

DESIGN AND DEVELOPMENT OF WEB-BASED BUSINESS CONSULTING SERVICES MANAGEMENT

BY

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FINAL YEAR DESIGN PROJECT REPORT

This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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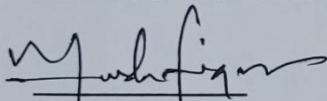
APPROVAL

This Project titled "Design and development of web-based Business consulting services management", submitted by Robayat Hasan ID: 202-15-14421 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 15 July 2024.

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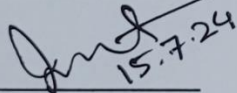
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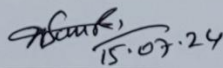
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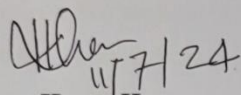
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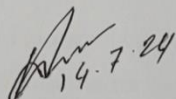
We hereby declare that this project has been done by us under the supervision of **Ms. Most. Hasna Hena, Assistant Professor, Department of CSE Daffodil International University**. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or diploma.

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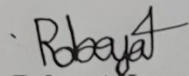
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ABSTRACT

Business consulting service management is an innovative platform designed to facilitate collaboration among entrepreneurs, business strategists, and investors, aiming to development of small and medium-sized enterprises. This platform insures what kind of ideas the users want for their business and the user can easily take these ideas from a business strategic. also if he feels that then he can also take investors from the same platform. On the other hand, a business strategic generate their articles to a user, and various business models on this platform, so that those who take a premium subscription can read their articles. In our project we have worked on various important features like Service, Payment Method, Blog, Articles, Chat Board, Dashboard, Unique ID for Users, Business strategic, Investor and much more. We have also tried to create a dashboard for everyone like user, business strategic and investors. where they can handle their activities through this dashboard. To do this full project we had to do both front-end and back-end. first we create a basic design in figma. Once the design is complete we start designing it's front-end. while the front-end design offers an intuitive user experience. For Frontend we tried to use react, javascript, tailwind css, react-router-dom, after done Frontend We started working on the backend. And for backend we used node.js, typescript, express, prisma, supabase, postgresSQL. The project supports eco-friendly ventures, promotes resource-efficient strategies. As we have tried to make our entire platform user friendly it can be made for all types of users that they will feel comfortable using our website. This approach aligns the platform with broader societal and environmental goals, driving business innovation and collaboration while fostering long-term growth and adaptability in a sustainable economy. We believe that this business consulting platform is set to become a cornerstone in the business landscape, driving long-term success and adaptability. As a users or business strategic or investors will find success through our website.

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CHAPTER 1

Introduction

1.1 Overview

The Business Collaboration Platform called Business Consulting services management is a game-changer. It's a busy hub where- business folk, strategists, and investors meet up. Their target? To spark new ideas, encourage teamwork, and ramp up the economy. our Business Consulting services management platform provides a thorough setup that fosters easy connections and fruitful relationships. By creating in-depth profiles and project listings, users can broadcast their business dreams. This grabs the interest of seasoned strategists offering priceless advice and plans. At the same time, a marketplace allows investors to find and back promising opportunities. Cool features like premium subscriptions, group chats, and personally tailored dashboards make things even better for users. The platform's focus on being open is clear in its strong rating and review system, boosting trust and responsibility among the community. This platform serves as a vault of information, providing a collection of resources and online events, aiding the process of entrepreneurship. Keeping safety, rules, and constant upgrades based on user opinions as top priorities, the Business Collaboration Platform develops a new vision for how business partnerships work. It brings different parties together in a common journey towards achievement.

1.2 Background and Present State

Here are terminologies related to **Design and development of web-based Business Consulting services management:**

User: An individual with a business idea or existing business looking to find strategies and investment. Users can create accounts, connect with strategists and investors, and utilize platform resources.

Business Strategist: A professional providing strategic advice, business models, and plans to help users start or grow their businesses. They offer expertise in exchange for fees or equity.

Investor: An individual or entity providing capital to startups and businesses in exchange for equity or returns. Investors can browse business ideas, evaluate opportunities, and invest through the platform.

Dashboard: The main interface for users, strategists, and investors where they manage their profiles, communications, projects, and investments.

Collaboration Group: A feature that allows users, strategists, and investors to form groups for better communication and project management

Premium Subscription: A paid service offering enhanced features such as advanced search options, detailed analytics, and priority support.

Profile: A user-specific page containing personal and professional information, business ideas, strategies, or investment preferences.

Investment Opportunity: A business idea or project listed by a user that is open for investment. It includes details such as business plans, financial projections, and funding requirements.

Mentorship: Guidance provided by strategists to users, including advice on business planning, strategy, and execution.

UI/UX (User Interface/User Experience): The design and feel of the platform, ensuring it is user-friendly and provides a positive experience.

Backend: The server-side of the platform that handles data processing, storage, and server logic, implemented using Node.js, and Express, prisma, supabase, postgresSQL

Frontend: The client-side of the platform, responsible for the user interface and interaction, built using Javascript, React.js, Tailwind CSS, React-router-dom.

API (Application Programming Interface): A set of rules and protocols for building and interacting with software applications, used for communication between the frontend and backend.

Authentication: The process of verifying the identity of users, strategists, and investors when they log in, ensuring security and proper access control.

Data Security: Measures taken to protect user data from unauthorized access and breaches, ensuring privacy and confidentiality.

Scalability: The platform's capacity to accommodate growing user numbers, workloads, and system requirements without sacrificing usability or efficiency.

1.3 Problem Statement

Aspiring entrepreneurs often struggle to turn their business ideas into reality due to limited access to expert guidance and investment opportunities. This gap results in a high rate of business failures and missed opportunities for economic growth. Existing platforms either lack comprehensive support or are not tailored to foster effective collaboration among entrepreneurs, business strategists, and investors. Business Consulting services management aims to address these challenges by providing a dedicated platform that connects users with the necessary resources and networks to successfully launch and grow their businesses.

1.4 Objectives

The Business Collaboration Platform aims to make the way entrepreneurs, business strategists, and investors work together better and more productive. Here are the main goals of the platform in simple terms:

Create a platform where entrepreneurs, strategists, and investors can collaborate easily with each other. This refers to tools for messaging, planning, and sharing resources.

Give the entrepreneurs everything they need in one place including expert advice, funding opportunities, and strategic direction for transforming their ideas into successful businesses.

Make it easier for startups to get funding and for investors to find new businesses that show promise. This will require making information easily understandable and transactions secure.

Establish a thriving community composed of creative minds and seasoned experts. To facilitate connections and partnerships, the website will arrange networking functions as well as forums.

Utilize advanced technology to enhance performance and provide an excellent user experience. This may involve the use of new web technologies, security measures for data protection, and even artificial intelligence for customized services.

Keep users updated with new educational content, workshops, and the latest industry trends to help them stay ahead in their fields.

Design the platform so it can grow and handle more users without slowing down or risking data breaches. Use strong security practices to keep user information and transactions safe.

By focusing on these goals, the Business Collaboration Platform aims to empower users to succeed and contribute to the broader economy.

1.5 Scope and Limitations

The scope of Business Consulting services management encompasses creating a comprehensive platform that connects aspiring entrepreneurs with business strategists and investors. The platform will facilitate the entire business development process, from idea generation and strategic planning to securing investments and fostering collaboration. Key features include user profiles, business idea submission, strategist matchmaking, investment opportunities, group communication tools, and real-time messaging. By leveraging advanced technologies such as Node.js, TypeScript, React.js, and Tailwind CSS, the platform aims to deliver a seamless and user-friendly experience.

However, the project has certain limitations. First, the success of the platform heavily depends on the active participation and engagement of users, strategists, and investors. Without a critical mass of participants, the network effect may be limited, reducing the platform's effectiveness. Additionally, while the platform aims to provide a global reach, cultural and regulatory differences across regions could pose challenges in terms of localization and compliance. There is also a dependency on continuous technological updates and maintenance to ensure security, scalability, and performance. Finally, promoting and adopting eco-friendly business practices among users may take time and require ongoing educational efforts.

By acknowledging these limitations, Business Consulting services management can proactively address potential challenges and ensure the platform's growth and success.

1.6 Report Organization

Chapter 1: In Chapter 1 there are 7 portions- overview, problem statement, motivation and objectives, project scope, project outcome, report organization, and finally summary. This chapter gives a clear idea about the project and the reason behind creating this project.

Chapter 2: This chapter overviews the project and related works, Comparable Research, the Gap Analysis, and and summary of this chapter.

Chapter 3: Chapter 3 describes the whole project Proposed Methodology/System Design, use case model, and entity relationship diagram also describes requirement collection and design requirements.

Chapter 4: Chapter 4 describes the whole project about front-end and back-end design. all design specification talk about here

Chapter 5: Chapter 5 describes the Implementation and Testing all the project. how we made the projects and how its done all those are described here.

Chapter 6: In Chapter 6 Impact on Society, Environment, and Sustainability

Chapter 7: In Chapter 7 Conclusion and Future Scope on our project.

1.7 Summary

Business Consulting services management aims to bridge the gap between entrepreneurs, business strategists, and investors through a sophisticated web platform. By providing features such as user profiles, business idea submissions, strategist matchmaking, investment opportunities, and group communication tools, the platform supports the entire business development process. Utilizing modern technologies like Node.js, TypeScript, React.js, and Tailwind CSS, it ensures a seamless user experience. Despite its promising scope, the platform faces challenges including the need for active user engagement, localization across different regions, continuous technological updates, and promoting sustainable practices. By addressing these limitations, Business Consulting services management strives to create a robust ecosystem that fosters innovation, collaboration, and economic growth.

CHAPTER 2

Literature Review

2.1 Overview

The literature review for Business Consulting services management explores existing platforms and studies related to entrepreneurial support, business strategy consultation, and investment matchmaking. Research indicates a significant gap in comprehensive solutions that effectively integrate these three aspects into a single platform. Current tools often focus on either business planning, investment acquisition, or networking, but fail to offer a holistic approach.

Studies highlight the importance of mentorship and strategic guidance for startup success, emphasizing the need for accessible expert advice. Furthermore, investment matchmaking platforms are found to increase funding opportunities but often lack personalized strategic support for businesses. Literature on digital collaboration tools shows that efficient communication and collaboration features are critical for business growth and networking.

By synthesizing these findings, Business Consulting services management aims to develop a unique platform that addresses the identified gaps, leveraging advanced technologies and fostering a supportive ecosystem for entrepreneurs, strategists, and investors. This literature review underpins the project's design, highlighting the need for an integrated approach to entrepreneurial support and investment facilitation.

2.2 Related Work

We have already saw several projects like this one and hope to have more in the future. But everyone is trying to come up with some new feature of their own and they are succeeding. We try to complete our project based on all these tasks done. And we keep these ongoing and new projects helping us build new features and add features, these details help readers understand what the project is about and who it's for. We have observed and analyzed many types of projects and services through these websites and web applications and we will talk about those websites today. All the work that has been done so far is mentioned below.

Network.com.bd [1]: This is one of the business strategist companies in Bangladesh. they provide many services like business consulting, and financial advising, legal advising, etc.

Amarsheba [2]: Amarsehab is also a business strategist company in Bangladesh. but their logistic work is not very good. But they are sell service. their web application is not user-friendly. hope they are all so good one day.

Crowdcube [3]: Enloop is a solid choice for those looking to build a business plan quickly. Good data syncing capabilities are enhanced by a solid collection of features.

AngelList [4]: Business plan software has a detailed step-by-step guide to help you make the right choices for your business. It takes the guesswork out of aligning your.

PlanGuru [5]: Less a business plan creator than a financial reporting tool, PlanGuru nevertheless does a creditable job for those seeking to build a worthwhile business plan.

Upwork [7]: This is a marketplace. In this marketplace, business strategist sell their business plan and give ideas to those who need them.

2.3 Comparison between existing works

There are many existing works we are taking many of ideas from those existing works. Business Consulting services management excels in user engagement through extensive chat and group communication features compared to competitors, fostering collaborative environments for business strategists, investors, and entrepreneurs. where we generate our ideas and take ideas from different features and all together we are trying to complete our project. We hope we can build something better. They have a lot of tigers and a lot of gap analysis from which we can build something better.

Table 2.3.1: Comparative analysis with previous work

SL No	Name	Type	Comparison between existing work	CEO
1	Network.com.bd [1]	Business idea generator	We shared ideas with business strategists and made a business for users.	_____
2	AmarSheba [2]	Freelance and Collaboration Platform	Collaboration with everyone who holds each.	Hayden Brown
3	Crowdcube [3]	Crowdfunding and Investment Platform	capital funding not the goal, also help user with shar business model.	Darren Westlake
4	AngelList [4]	Investment and Networking Platform	Growing network world wide.	Avlok Kohli
5	PlanGuru [5]	Business plan creator than a financial reporting tool.	We have business idea and model creator who create a plan or model for user how need	Christian Wielage
6	Upwork [7]	Collaboration and Communication	Collaboration with everyone user to business player and investor.	Denise Dresser
7	Product Hunt [8]	Product Discovery and Collaboration	Growing network world wide	Rajiv Ayyangar
9	Enloop [10]	Enloop is a solid choice for those looking to build a business plan quickly	user can choose business strategist . plan with them and go to investor through our website.	Cynthia K. McCahon
10	Fiverr [11]	Marketplace	Collaboration with everyone user to business player and investor. user can pay for it.	Micha Kaufman

2.4 Open Issues

Business Consulting services management faces several open issues that need to be addressed to ensure its long-term success and effectiveness. Ensuring active participation and continuous engagement from entrepreneurs, business strategists, and investors is a significant challenge, necessitating the development of effective strategies to attract and retain users. Additionally, the platform must adapt to different regions by addressing cultural nuances and complying with local regulations, including language localization and legal requirements. Maintaining the platform's performance, security, and scalability requires ongoing technological updates and enhancements, ensuring it remains robust and responsive to user needs. Protecting user data and ensuring privacy compliance is critical, necessitating the implementation of robust cybersecurity measures and regular updates to privacy policies. Encouraging and integrating eco-friendly business practices among users is another challenge, requiring the development of incentives and educational resources to promote sustainability within the platform's ecosystem. Continuously gathering, analyzing, and integrating user feedback to improve platform features and user experience is essential, requiring efficient feedback mechanisms to address user concerns promptly. Lastly, navigating a competitive market landscape and differentiating Business Consulting services management from existing platforms poses a strategic challenge, making it crucial to identify and leverage unique value propositions to stand out.

2.5 Summary

The literature review for Business Consulting services management highlights significant gaps in existing platforms that provide entrepreneurial support, business strategy consultation, and investment matchmaking. Current solutions often lack a holistic approach, focusing on one aspect while neglecting others. Research underscores the importance of mentorship and strategic guidance for startup success, emphasizing the need for accessible expert advice. Additionally, studies on digital collaboration tools reveal that efficient communication and collaboration features are vital for business growth and networking. By addressing these gaps, Business Consulting services management aims to create an integrated platform that leverages advanced technologies to support entrepreneurs, strategists, and investors, fostering innovation, collaboration, and economic growth.

CHAPTER 3

Requirement Analysis & Design Specification

3.1 Overview

Business Consulting services management adopts an Agile methodology for its development, ensuring iterative progress and responsiveness to user feedback. The requirement analysis phase meticulously identified user needs, competitive insights, and unique value propositions essential for the platform's success. Key requirements such as a user-friendly interface, robust security measures, efficient matchmaking algorithms, and seamless communication tools were prioritized. The design specification encompasses a frontend built with React.js and Tailwind CSS for intuitive user experiences, complemented by a backend using Node.js, TypeScript, Express, Prisma, Supabase, and PostgreSQL for secure and scalable data management. This approach aims to deliver a comprehensive platform that supports entrepreneurs, business strategists, and investors alike, fostering innovation, collaboration, and sustainable business growth within a dynamic marketplace.

3.2 Proposed Methodology

Our plan to build the Busine-ss Collaboration Platform is ongoing and systematic. It combines the top strate-gies in software creation and managing proje-cts. This approach aims for the platform to work well, for users to be- happy, and for it to adjust if needs shift. This is a quick look: we try to make a use case model for “Business Consulting services management” that can describe every single interaction and functionality from the point view of 3 different users. With the help of use case modeling, we can view how the admin can manage 3 of the dashboards, and approve blogs and other articles. Users can find business strategies for their business, find investors, and review them. On the other side, Business strategists make articles and blogs. They can see what reviews are given by users. An investor also discovers the market and fine business for investing after that user assigns if they want to invest. Admin has to manage all of their work.

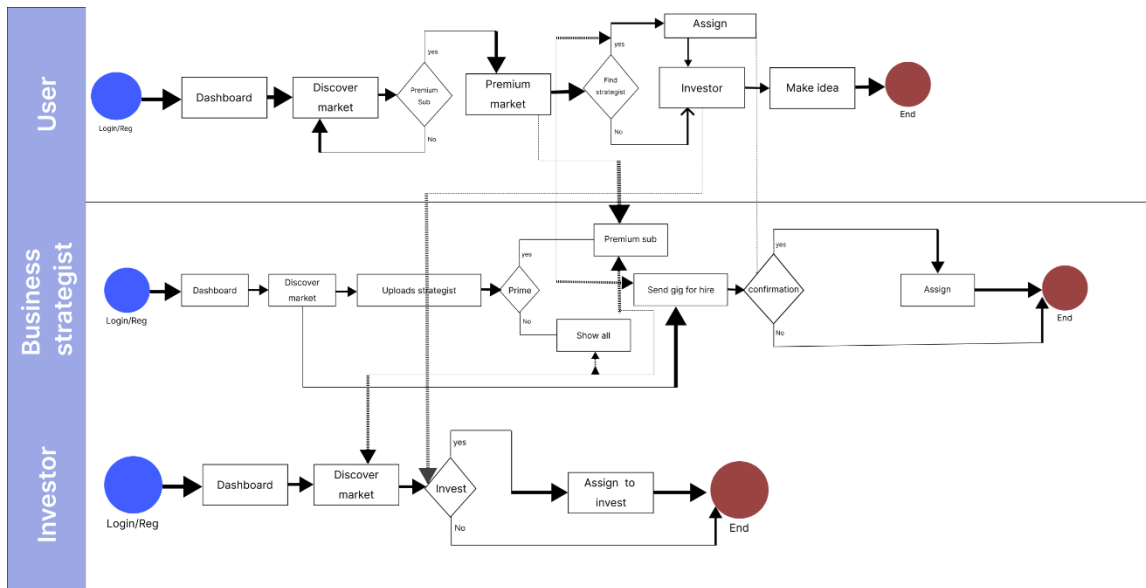


Figure 3.2.1: Business Process Modelling

3.3 Hardware Software Requirement

For software requirements, based on common practices for web applications similar to Business Consulting services management, the project might require:

1. Frontend Development:

- Framework: React.js
- Styling: Tailwind CSS
- JavaScript runtime: Node.js

2. Backend Development:

- Server-side framework: Node.js with Express
- Database: PostgreSQL, using Prisma ORM
- Authentication and authorization: Supabase or custom authentication solutions
- APIs and services integration: Various third-party APIs as needed

3. Development Tools and Environment:

- Code editor: Visual Studio Code, etc.
- Version control: Git
- Package management: npm (Node Package Manager) or Yarn

Hardware requirements would typically include servers or cloud instances capable of running Node.js applications and hosting PostgreSQL databases. The specifics would depend on factors such as expected traffic, concurrent users, and performance requirements.

For precise hardware and scaling requirements, consulting with a DevOps engineer or infrastructure specialist would be advisable to ensure the platform can handle anticipated loads effectively.

3.4 Project Management and Financial Analysis

Proper Project management and finance are required for the "Business Consulting services management" initiative to be a success. In this regard, the following factors are important:

Budgeting & Resource Allocation: It is essential to create a thorough budget that includes development costs, infrastructure charges, marketing activities, and ongoing maintenance. We are not sure about budgeting cause its all about activity. The proper allocation of resources ensures that the project is financially sustainable throughout its existence. We show some budgeting ideas in table 3.4.1 below,

Table 3.4.1: Estimated Cost for Business Consulting services management Project.

SN	Components	Estimated Cost (BDT)
1	Domain and Hosting register	5000
2	Ux/UI from envato	1200
3	Doing Online Course or Training for learning web development	5999
4	freepik for icon and image	500
	Total Estimated Cost	12700

Project Planning: To identify goals, objectives, and deliverables, the project must be meticulously planned. To guarantee efficient execution, At first, we make UX after that we work UI on it for that we need phase I. After completing UX/UI we move to development, in time we use react.js tailwind. nodejs, for databases we use supabase, express we

complete it before my final defense. the project scope, timing, and resource allocation must be well stated.

Team Coordination: Effective team member coordination is important for the project's success. Assigning duties and tasks, opening lines of communication, and encouraging collaboration all contribute to a successful and healthy team environment.

Risk Management: It is critical to identify and assess potential risks such as technical issues, unstable markets, or financial limits. Risk mitigation tactics and contingency plans aid in minimizing delays and ensuring project expansion.

3.5 Summary

The Business Consulting services management project is designed with an Agile methodology to ensure iterative development and responsiveness to user feedback. In this methodology chapter we have tried to fully present the work as we did it. We have also mainly talked about Business process method and Business Financial Analysis here. It aims to bridge gaps in entrepreneurial support by offering a platform that connects entrepreneurs, business strategists, and investors. Key aspects include a user-friendly interface, robust security measures, efficient matchmaking algorithms, and seamless communication tools. The software requirements emphasize using React.js and Tailwind CSS for frontend development, and Node.js, TypeScript, Express, Prisma, Supabase, and PostgreSQL for backend operations.

Project management and financial analysis are critical for success, involving thorough budgeting, resource allocation, and risk management. Estimated costs cover domain registration, UX/UI design, training, and resource procurement. Planning includes goal setting, timeline management, and effective team coordination to ensure project milestones are met. Risk mitigation strategies are essential to handle technical, market, and financial challenges. Overall, Business Consulting services management aims to foster innovation, collaboration, and sustainable business growth through a well-defined and meticulously managed development approach.

CHAPTER 4

Implementation

4.1 Overview

Business Consulting services management utilizes a robust use case modeling approach to outline interactions across its platform, catering to administrators, investors, entrepreneurs, and business strategists. Users begin by signing up and sharing business ideas, engaging in activities such as finding business strategies, seeking investments, and publishing content. Admins oversee platform operations, managing dashboards and approving submissions. Business strategists contribute articles and interact with user feedback, while investors explore market opportunities and finalize investment decisions. This modeling ensures comprehensive coverage of user interactions, facilitating efficient platform management and enhancing user engagement.

The logical data model of Business Consulting services management includes key entities such as users, services, payments, chatboards, and user IDs, interconnected through relationships that enable user customization, payment processing for services, and real-time communication via chatboards. Attributes within each entity capture essential data, supporting effective business strategy management and promoting user interaction and satisfaction.

Design requirements for Business Consulting services management prioritize creating an intuitive and secure system. This includes developing a responsive user interface to enhance usability across devices, implementing robust security measures to protect user data, and designing scalable architecture to accommodate growing user demands without compromising performance. Personalization features enable users to customize their experiences, while integration with external services ensures compatibility and seamless functionality. Comprehensive reporting tools and accessibility compliance further enhance the platform's usability, ensuring reliable service and user satisfaction through effective maintenance and support channels.

4.2 Prototype Design

A user starts the process on the Business Collaboration Platform by signing up. They share key information on their business idea and needs. “Business Consulting services management” can do something good after completing its mythology. I hope the project will be completed very well. People like admin investors, users, and business strategists will work here will complete the work in the right way and at the right level and they will get their results well. we try to make a use case model for “Business Consulting services management” that can describe every single interaction and functionality from the point view of 3 different users. With the help of use case modeling, we can view how the admin can manage 3 of the dashboards, and approve blogs and other articles. Users can find business strategies for their business, find investors, and review them. On the other side, Business strategists make articles and blogs. They can see what reviews are given by users. An investor also discovers the market and fine business for investing after that user assigns if they want to invest. Admin has to manage all of their work.

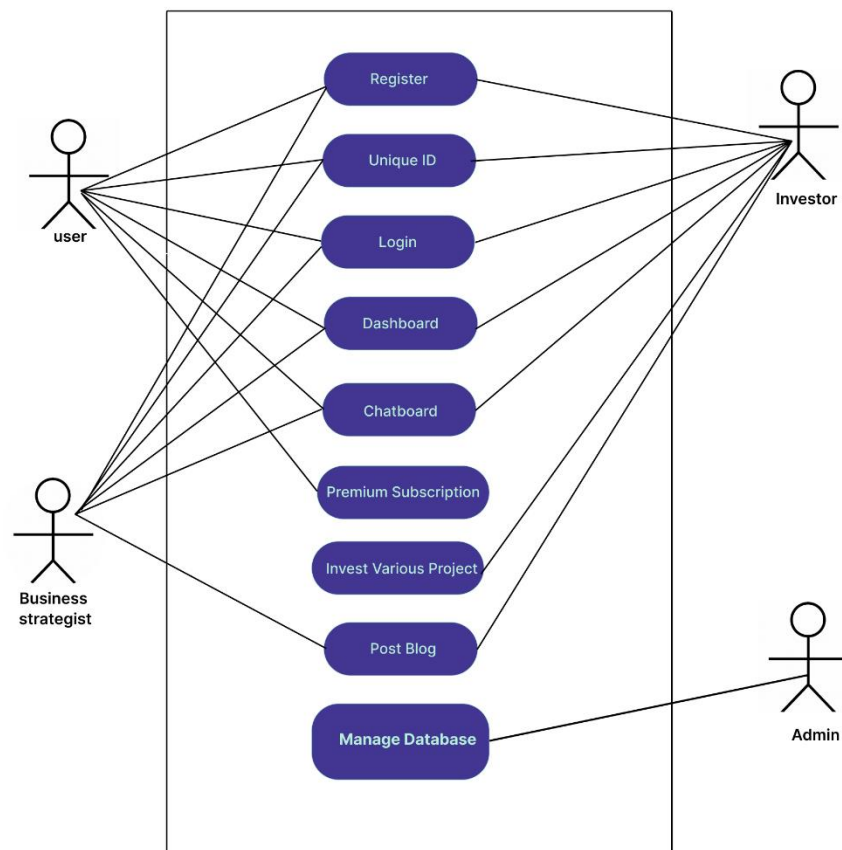


Figure 4.2.1: Use Case Diagram

Front-end Design: “Design and development of web-based Business Consulting services management” has a front-end design that emphasizes a contemporary, user-friendly interface. It makes use of responsive design concepts for seamless cross-platform use. The user interface (UI) has an intuitive structure that facilitates effortless navigation and expedient access to essential functions including, User, business Strategies and investor dashboards, Several services, chatboard for each others, payment services and payment plan, and customized user profiles. User engagement is improved by visual components like call-to-action buttons and payment methods and alson read services articales. To guarantee a positive and effective user experience, the design places a high priority on accessibility, usability, and aesthetics.

Back-end Design: The Business Consulting services management platform has a back-end design that is scalable, maintainable, and efficient because it is modular and layered. The server executes code efficiently by using Node.js for its non-blocking, event-driven environment. Code reliability is also enhanced with static typing thanks to TypeScript. For routing and HTTP requests handling Express.js is used while Prisma provides type-safe database access and simplifies interactions with PostgreSQL. Supabase offers backend-as-a-service functionalities, including real-time data synchronization and secure authentication. RESTful API design, centralized error handling, and strong security practices are some of the key features. This architecture supports horizontal scaling as well as optimized performance which ensures seamless user experience and effective management for business ideas and investments.

Client:

- The client could be a browser, or any API client that interacts with the back-end via HTTP requests.

Express.js Server:

- The server handles incoming HTTP requests and routes them to the appropriate middleware or controller.

- **Middleware:**
Middleware functions handle authentication, logging, and other crosscutting concerns before passing requests to the business logic layer.
- **Business Logic Layer:**
This layer consists of controllers and services that implement the core functionality and business rules of the application.
- **Data Access Layer:**
Using Prisma ORM, this layer interacts with the PostgreSQL database to perform CRUD operations in a type-safe manner.
- **PostgreSQL:**
The primary relational database used for storing and managing application data.
- **Supabase:**
Provides real-time data synchronization, authentication services, and additional APIs to enhance the back-end capabilities.

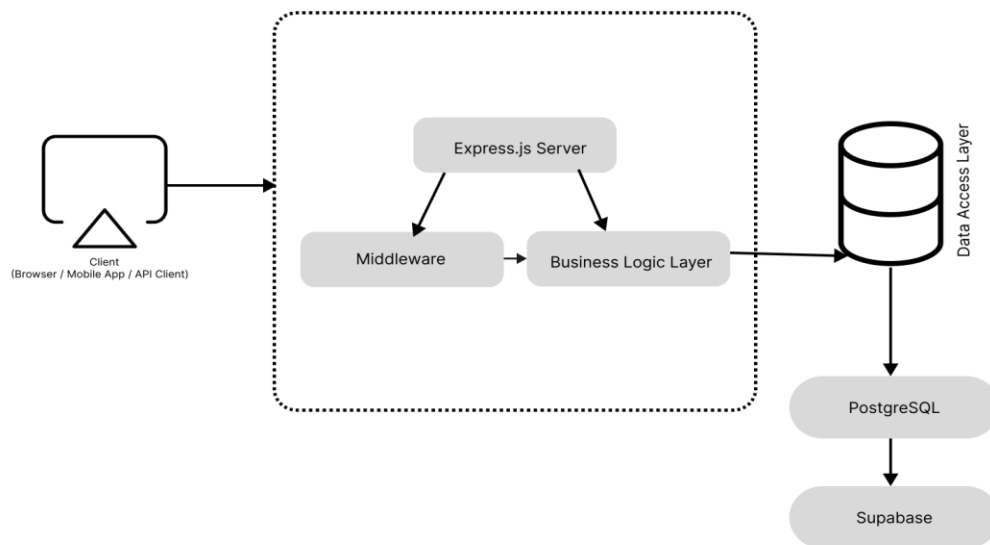


Figure 4.2.2: MVC Architecture

Implementation Requirements The following technical, operational, and developmental elements are included in the implementation requirements for “Design and development of web-based Business Consulting services management”:

Front End Technologies

React

Javascript.

Tailwind-css.

React-router-dom.

Back End Technologies

Nodejs

Typescript

Express

Prisma

Supabase

PostgreSQL

Tools

Web Browser

Visual Studio Code (*IDE*)

4.3 System Testing

Design and development of web-based Business Consulting services management. has a logical data model with the following entities: users, services, payment, chatboard, and user id. Interactions are defined by the relationships between these entities; users customize preferences, make payment that are connected to specific places, and chat each other. Entity attributes gather pertinent data, creating the framework for effective trip administration and user engagement on the platform.

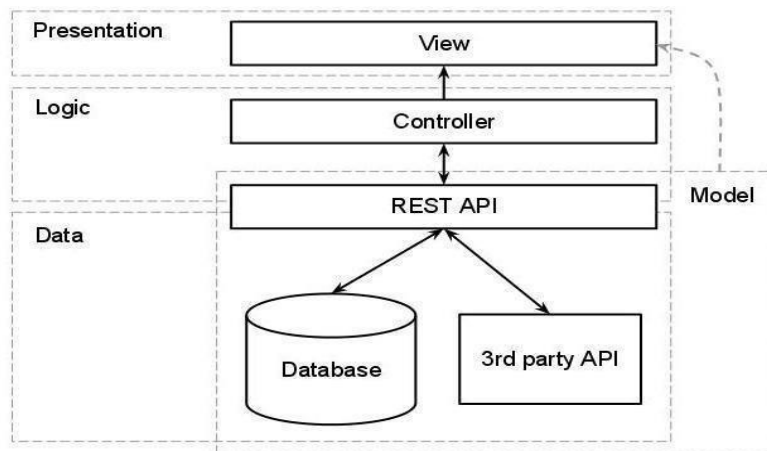


Figure 4.3.1: Logical Data Modeling.

This diagram and the accompanying explanation provide a clear overview of the back-end architecture, illustrating how different components interact to handle requests, apply business logic, and manage data efficiently.

4.4 Summary

Business Consulting services management employs a robust use case modeling approach to manage interactions among administrators, investors, entrepreneurs, and business strategists. Users initiate by signing up, sharing business ideas, and engaging in activities like finding strategies and seeking investments. Admins oversee platform operations, including content approval and dashboard management. Business strategists contribute articles and engage with user feedback, while investors explore opportunities and make investment decisions. This model ensures comprehensive user interaction and efficient platform management.

The logical data model integrates entities such as users, services, payments, chatboards, and user IDs, facilitating user customization, payment processing, and real-time communication. Attributes within each entity support effective business strategy management and enhance user engagement.

Front-end design focuses on a contemporary, user-friendly interface with responsive design principles, intuitive navigation, and accessibility features. Back-end architecture utilizes Node.js, TypeScript, Express.js, Prisma, and Supabase to ensure scalability, maintainability, and efficient data handling. The system supports RESTful API design, real-time data synchronization, and robust security measures.

Overall, Business Consulting services management aims to provide a seamless user experience, facilitate business growth, and ensure secure, scalable platform operations through its integrated design and functionality.

CHAPTER 5

Result And Analysis

5.1 Overview

Business Consulting services management is being developed with a comprehensive approach to database management, front-end design, and testing methodologies. The database implementation comprises specialized databases tailored to handle specific functionalities: the User Database for authentication and user profiles, the Payment Database managing financial transactions, the Chatboard Database facilitating real-time messaging, the Membership Database overseeing group memberships, the Article Database for user-generated content, and the Chatgroup Database supporting group communications. Each database is structured to ensure efficient data management and seamless integration with the backend using Prisma ORM.

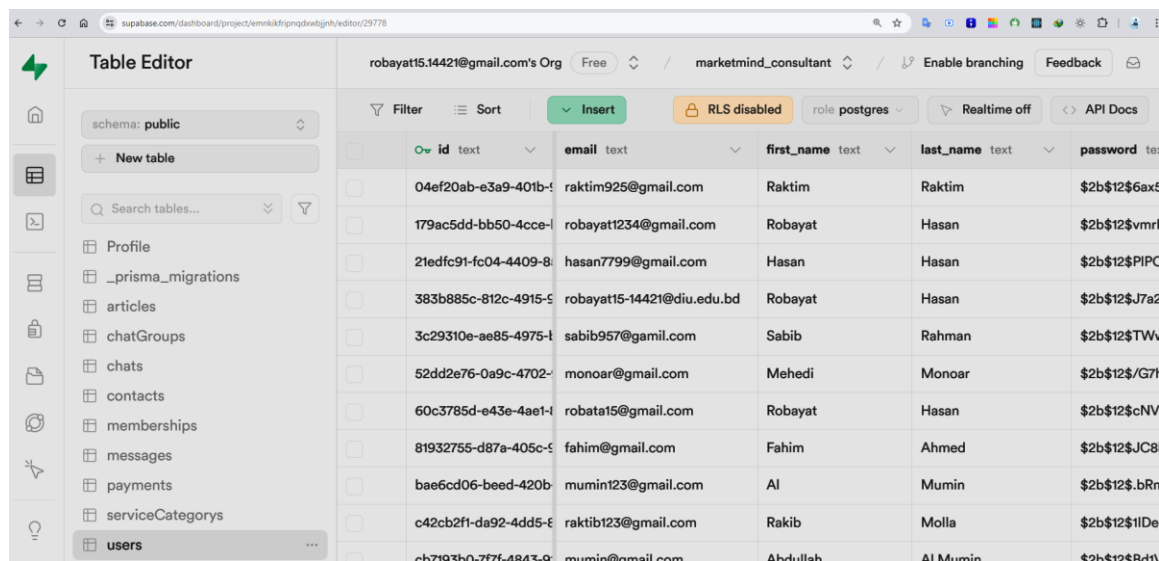
On the front-end, Business Consulting services management emphasizes user experience with a responsive and intuitive design. The Landing Page introduces the platform with essential features and user testimonials, while the Login and Registration interfaces provide secure access and real-time data validation. The Dashboard serves as a centralized hub for users to manage activities and view metrics, leveraging dynamic components and Tailwind CSS for a cohesive layout. Additionally, the Chatboard and Chat Group interfaces enable seamless communication through real-time messaging, enhancing user interaction and collaboration. The Payment Method section simplifies transactions with form-based interactions and transparent billing histories.

For quality assurance, Business Consulting services management implements a robust testing strategy encompassing unit testing, integrity testing, system testing, user acceptance testing (UAT), security testing, and performance testing. This approach ensures platform reliability, security, and performance across various testing environments—from development to user testing—integrated with automated testing frameworks in CI/CD pipelines. Overall, Business Consulting services management aims to deliver a secure, scalable, and user-friendly platform that fosters efficient business collaboration and enhances user engagement and satisfaction.

5.2 Experimental Simulation Result

The database implementation of the Business Consulting services management platform requires the use of multiple specialized databases to cater for its wide range of functionalities. Each database is designed for a specific part of the platform which ensures efficient data management and easy integration with the backend using Prisma ORM. Below are detailed descriptions of all the databases as well as their features

The User Database is at the core of the platform as it handles everything related to users like authentication and authorization. It contains tables where user credentials are stored, personal information is kept and profiles are saved. Basic details about a user such as username, email address and hashed password along with roles they play in different timestamps when the account was created or lastly updated can be found in Users table. implementing this, the Profiles table stores additional user details like first name, last name, biography, and profile pictures, allowing users to maintain comprehensive profiles.



id	email	first_name	last_name	password
04ef20ab-e3a9-401b-5	raktim925@gmail.com	Raktim	Raktim	\$2b\$12\$6ax5
179ac5dd-bb50-4cce-	robayat1234@gmail.com	Robayat	Hasan	\$2b\$12\$vmr
21edfc91-fc04-4409-8	hasan7799@gmail.com	Hasan	Hasan	\$2b\$12\$PIPC
383b885c-812c-4915-5	robayat15-14421@diu.edu.bd	Robayat	Hasan	\$2b\$12\$J7a2
3c29310e-ae85-4975-1	sabib957@gamil.com	Sabib	Rahman	\$2b\$12\$TWV
52dd2e76-0a9c-4702-	monoar@gmail.com	Mehedi	Monoar	\$2b\$12\$/G7f
60c3785d-e43e-4ae1-	robata15@gmail.com	Robayat	Hasan	\$2b\$12\$cNV
81932755-d87a-405c-f	fahim@gmail.com	Fahim	Ahmed	\$2b\$12\$JC8
bae6cd06-beed-420b-	mumint23@gmail.com	Al	Mumin	\$2b\$12\$.bRn
c42cb2f1-da92-4dd5-e	raktib123@gmail.com	Rakib	Molla	\$2b\$12\$1De
ch7193th0-7f7f-4843-9	mumin@gmail.com	Abdullah	Al Mumin	\$2b\$12\$Rd1V

Figure 5.2.1: Database Architecture for User.

The Payment Database is responsible for managing all financial transactions and subscription plans. The Subscriptions table keeps track of different subscription plans a user is on. This includes their type (basic or premium), start date, end date and current status which could be active or expired. All these records are essential as they help in keeping up with the payments made by users.

The screenshot shows the 'Table Editor' interface for a database. The left sidebar lists various tables: Profile, _prisma_migrations, articles, chatGroups, chats, contacts, memberships, messages, and payments. The 'payments' table is selected. The main area displays the table's schema and data. The schema includes columns: id (text), userId (text), payment... (text), and cardNumber (text). The data table shows 10 rows of payment records.

id	userId	payment...	cardNumber
0293066b-8f63-416e	04ef20ab-e3a9-401b-9dac-9fd3e...	CARD	1234 1234 1234 1234
1303c9b7-d65d-4d37	04ef20ab-e3a9-401b-9dac-9fd3e...	PAYPAL	1234 1234 1234 1234
26703742-75ac-4830	cb7193b0-7f7f-4843-919d-46416d...	CARD	4526 1256 2365 4526
49f4caf6-94d9-438a	d0ac8892-6c44-48b3-95cc-8566...	PAYPAL	1234 1234 1234 1234
795c56e1-ecce-488a	04ef20ab-e3a9-401b-9dac-9fd3e...	PAYPAL	1234
823fa80a-fc06-4971-l	bae6cd06-beed-420b-8d88-08db...	PAYPAL	1236 4562 2563 4562
8d6e834b-7a6d-4d6c	04ef20ab-e3a9-401b-9dac-9fd3e...	PAYPAL	1236 4568 4658 4568
9fbccd27-a420-4ed-b	bae6cd06-beed-420b-8d88-08db...	CARD	2156 1256 2563 4856
b34a5219-c998-49a4	04ef20ab-e3a9-401b-9dac-9fd3e...	PAYPAL	12134

Figure 5.2.2: Database Architecture for Payment.

The Chatboard Database has been created to handle one to one interaction among members. The Messages table stores messages sent between individuals with fields such as sender id, receiver id message content and time stamps showing when it was sent or read respectively. Through this platform people can send real time private messages thus promoting more engagement on the site.

The screenshot shows the 'Table Editor' interface for a database. The left sidebar lists various tables: Profile, _prisma_migrations, articles, chatGroups, chats, contacts, memberships, messages, and payments. The 'messages' table is selected. The main area displays the table's schema and data. The schema includes columns: id (text), content (text), userId (text), and chatGroupId (text). The data table shows 10 rows of message records.

id	content	userId	chatGroupId
17c0a3e3-a1e6-43bb-a0	Hi	c42cb2f1-da92-4dd5-84ee-2c0bf5...	02599a19-1e7b-4eee-97e...
1ed93bc6-c70e-4969-b0	Hi	f97c9ca4-02f1-4568-b5d4-503c9f...	e95df77f-5bf5-4fd3-b8f4...
37be62ba-dad7-4fd9-91	Hello Everyone	81932755-d87a-405c-90f3-caf2d6...	90179fec-1da7-4b08-ae4...
4f0bd139-48db-4a6d-a0	Hello everyone!	04ef20ab-e3a9-401b-9dac-9fd3e...	2d1ee856-f3fc-463e-ab5...
5c43c661-060a-4feb-82	hi	04ef20ab-e3a9-401b-9dac-9fd3e...	fc72a444-c9ac-422d-974...
6f499816-899e-4179-8a	Hello	21edfc91-fc04-4409-85bb-f87dde...	7176f165-dbc4-4a26-a23...
739717e8-443b-4565-97	Hi	d0ac8892-6c44-48b3-95cc-8566...	2d1ee856-f3fc-463e-ab5...
7ae92b01-a0aa-40eb-9c	Hi There	52dd2e76-0a9c-4702-9c32-4179b...	90179fec-1da7-4b08-ae4...
808fcbbd-4d5e-4ba7-a0	Hello	52dd2e76-0a9c-4702-9c32-4179b...	e95df77f-5bf5-4fd3-b8f4...

Figure 5.2.3: Database Architecture for ChatBoard.

The Membership Database holds group memberships and player roles in the system. A table named “Groups” has details about different user groups such as – group name, user who created it and when they created it. User-group linking is done via a table called “GroupMembers” where administrators (admin) or members (member) are assigned various dates for their joining the groups.

id	chatGroupId	status	joinedAt	createdAt
071a8d57-fb5d-4d7...	2d1ee856-f3fc-463e-ab...	ACCEPTED	2024-06-26 10:25:45.6	2024-06-26
15716a90-1cfe-4082	08e0a4fc-1bd2-4dab-b1...	PENDING	2024-07-02 04:40:44.8	2024-07-02
15cde797-fca1-4388	7176f165-dbc4-4a26-a2...	ACCEPTED	2024-06-26 10:19:11.96	2024-06-26
272cd321-d09b-4d3	fc72a444-c9ac-422d-97...	ACCEPTED	2024-07-01 05:54:29.19	2024-07-01
3056434c-0208-47c	90179fec-1da7-4b08-ae...	ACCEPTED	2024-05-20 10:20:41.45	2024-05-20
312a99d1-5133-4412	60249af8-9f27-4ef6-9e...	ACCEPTED	2024-07-07 06:10:38.2	2024-07-07
337cbcff-475a-42b8	2d1ee856-f3fc-463e-ab...	ACCEPTED	2024-06-26 10:25:45.6	2024-06-26
35aad06e-85d4-4b0	02599a19-1e7b-4eee-97...	ACCEPTED	2024-07-07 04:23:26.2	2024-07-07
645f2906-d4c7-487	60249af8-9f27-4ef6-9e...	PENDING	2024-07-07 06:10:38.2	2024-07-07

Figure 5.2.4: Database Architecture for Membership.

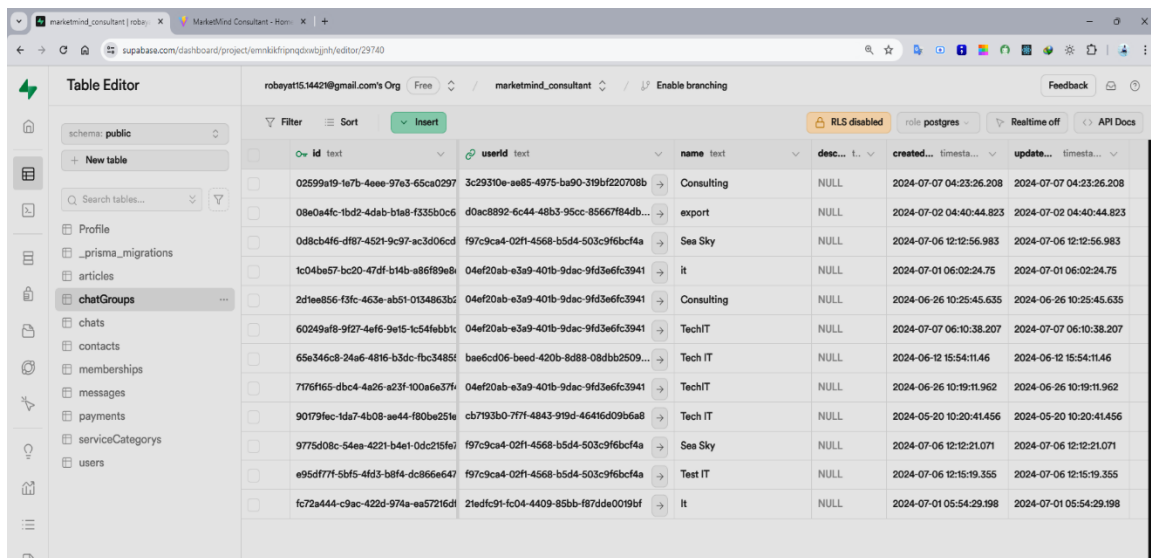
The Article Database stores and manages user-generated content. The Articles table holds articles authored by users, including the title, content, author ID, and timestamps for creation and updates. Additionally, the Comments table allows users to comment on articles, with each comment linked to an article and its author. This database supports the platform's content sharing and engagement functionalities, enabling users to publish and interact with articles.

id	userId	tags
216c25a5-076a-47c0-9086-4e061ab14d14	d0ac8892-6c44-48b3-95cc-8566...	["Business"]
5116bae8-dc74-438c-a1b7-d33d1b19019	c42cb2f1-da92-4dd5-84ee-2c0bf5...	["Analysis"]
56105f29-ca34-4c76-875e-f5b0f2eefd0c	d0ac8892-6c44-48b3-95cc-8566...	["Leadership"]
eeae648ad-4134-400a-a3dc-abded475f22	c42cb2f1-da92-4dd5-84ee-2c0bf5...	["Management*"]

Figure 5.2.5: Database Architecture for Article.

The Chatgroup Database is helpful for group communication. Messages sent within user

groups are stored in the GroupMessages table which contains the group ID, sender ID, message content and timestamp of when it was sent. This ensures that group chats are well managed thus promoting collaborative discussions among users in groups within the platform. This structure supports several key features: users can create and manage groups, join existing groups, and communicate in real-time through group messaging. Group creators have administrative privileges to manage group settings and members, ensuring organized and efficient group interactions. Additionally, the database supports a notification system that alerts users to new messages and activities within their groups, keeping everyone informed and engaged. Overall, the Chatgroup Database plays a crucial role in enhancing collaboration and communication among users on the platform, fostering a community where entrepreneurs, business strategists, and investors can effectively connect and work together.



id	user_id	name	desc...	created...	update...
02599a19-1a7b-4eee-97e3-65ca0297	3c29310e-ae85-4975-ba90-319bf220708b	Consulting	NULL	2024-07-07 04:23:26.208	2024-07-07 04:23:26.208
08e0e4fc-1bd2-4dab-b1a8-f335b0c6	d0ac8892-6c44-48b3-95cc-85667894db...	export	NULL	2024-07-02 04:40:44.823	2024-07-02 04:40:44.823
0d8cb4f6-df87-4521-9c97-ac3d06cd	f97c9ca4-02f1-4568-b5d4-503c9f6bcf4a	Sea Sky	NULL	2024-07-06 12:12:56.983	2024-07-06 12:12:56.983
1c04be57-bc20-47df-b14b-a86f89e8	04ef20ab-e3a9-401b-9dac-9fd3e6fc3941	It	NULL	2024-07-01 06:02:24.75	2024-07-01 06:02:24.75
2dfee856-f3fc-463e-ab51-0134863bc	04ef20ab-e3a9-401b-9dac-9fd3e6fc3941	Consulting	NULL	2024-06-26 10:25:45.635	2024-06-26 10:25:45.635
60249af8-9f27-4ef6-9e15-1c54febbfc	04ef20ab-e3a9-401b-9dac-9fd3e6fc3941	TechIT	NULL	2024-07-07 06:10:38.207	2024-07-07 06:10:38.207
65e346c8-24a6-4816-b3dc-fbc3485f	bae6cd06-beed-420b-8d88-08dbb2509...	Tech IT	NULL	2024-06-12 15:54:11.46	2024-06-12 15:54:11.46
7176f165-dbc4-4a26-a23f-100eae37f1	04ef20ab-e3a9-401b-9dac-9fd3e6fc3941	TechIT	NULL	2024-06-26 10:19:11.962	2024-06-26 10:19:11.962
90179fec-1da7-4b08-ae44-f80be251e	cb7193b0-77f1-4843-919d-46416d09b6a8	Tech IT	NULL	2024-05-20 10:20:41.456	2024-05-20 10:20:41.456
9775d08c-54ea-4221-b4e1-0dc215fe	f97c9ca4-02f1-4568-b5d4-503c9f6bcf4a	Sea Sky	NULL	2024-07-06 12:12:21.071	2024-07-06 12:12:21.071
e95df77f-5bf5-4fd3-b8f4-dc866e647	f97c9ca4-02f1-4568-b5d4-503c9f6bcf4a	Tech IT	NULL	2024-07-06 12:15:19.355	2024-07-06 12:15:19.355
fc72a444-c9ac-422d-974a-ea57216d1	21edfc91-fc04-4409-85bb-f87dde0019bf	It	NULL	2024-07-01 05:54:29.198	2024-07-01 05:54:29.198

Figure 5.2.6: Database Architecture for ChatGroup.

Implementation of Front-end Design

The front-end design of “Design and development of web-based Business Consulting services management” focuses on creating an intuitive and responsive interface, enabling easy navigation, personalized travel planning, and efficient booking management for users worldwide. The front-end design for Business Consulting services management is all about

making a clean, responsive, and good-looking interface that makes use of the latest web technologies. The landing page kicks off by presenting the system through a hero section constructed with a bold headline, a sub headline as well as CTA buttons for signing up or logging in. Knowing what to focus on next, it lists down main features while also providing social proof in form of user testimonials. Assuring modules which are meant to be independent of one another are built as React components but still remain part whole theming across different sizes viewports thanks to Tailwind CSS framework. The front-end design for Business Consulting services management is structured to provide a cohesive and seamless user experience. Each section of the platform is designed with a focus on usability, responsiveness, and visual appeal, using modern web technologies and best practices.

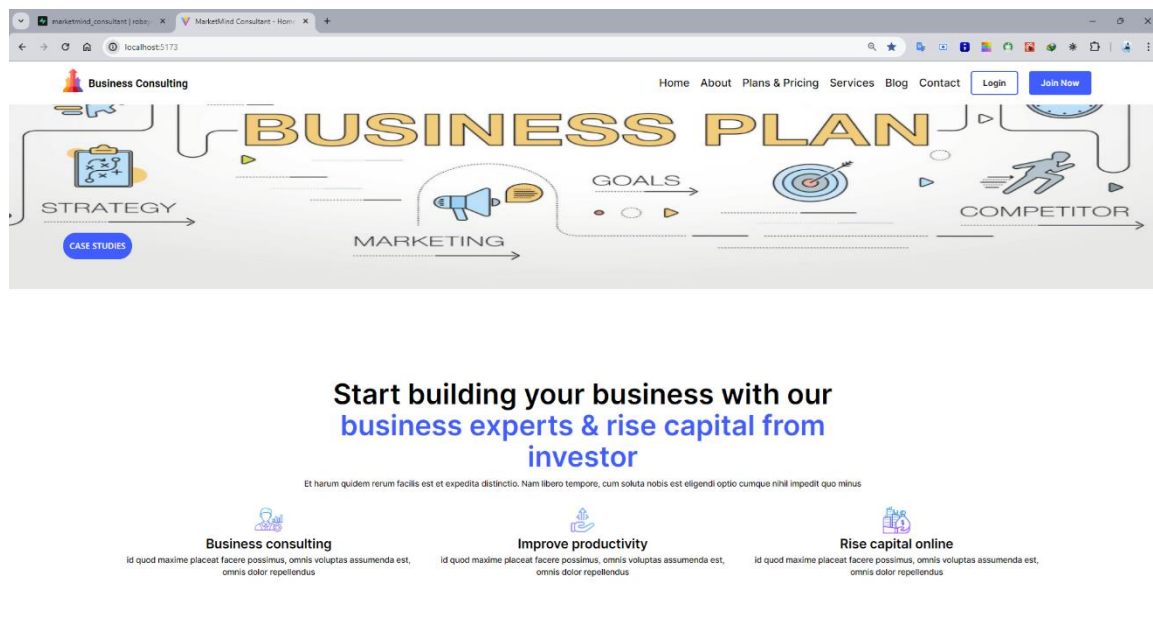
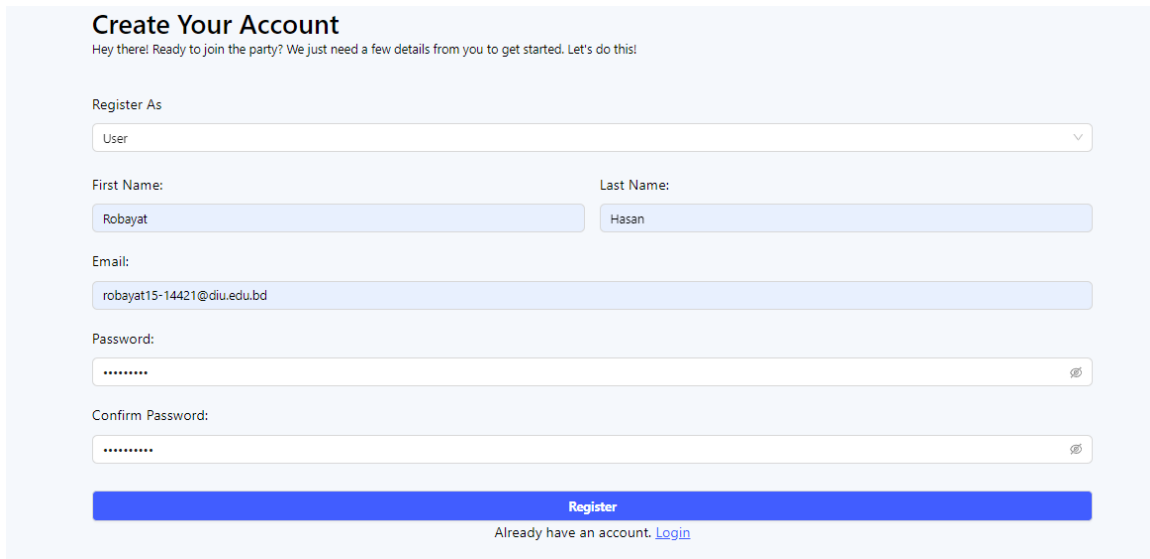


Figure 5.2.7: Landing Page Design.

To introduce the platform, highlight its key features, and encourage new users to sign up or log in.



Create Your Account
Hey there! Ready to join the party? We just need a few details from you to get started. Let's do this!

Register As
User

First Name: Robayat Last Name: Hasan

Email: robayat15-14421@diu.edu.bd

Password: *****

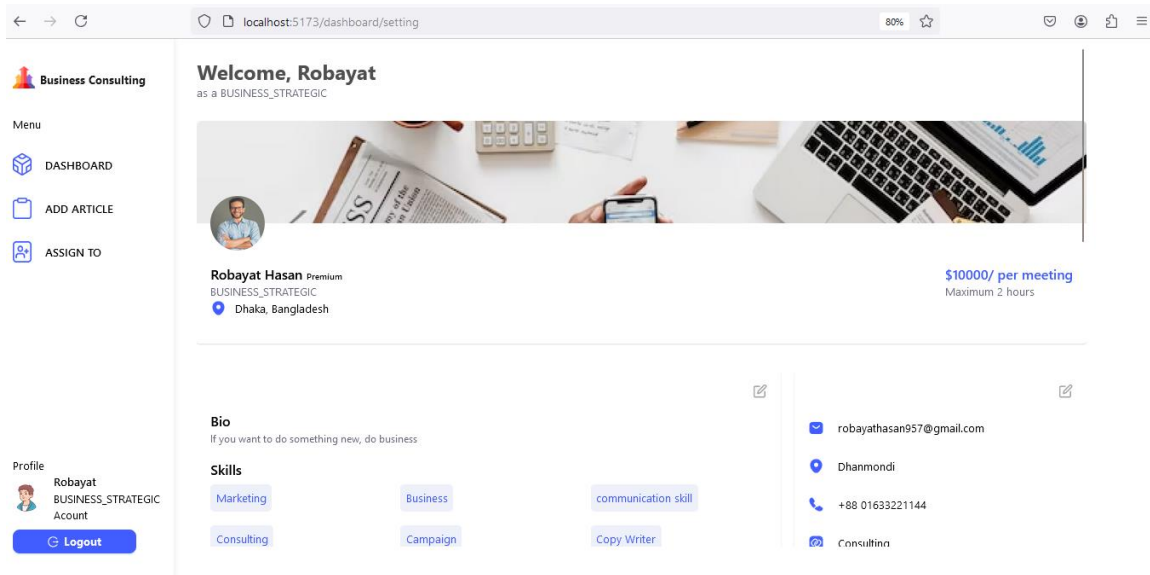
Confirm Password: *****

Register

Already have an account. [Login](#)

Figure 5.2.8: Login and Registration Design.

The **Login and Registration** forms provide secure access to the platform. The login form includes fields for email/username and password, with options for remembering credentials and resetting passwords. The registration form captures necessary user details with real-time validation for data integrity. Both forms are implemented as React components and styled using Tailwind CSS for a clean and intuitive interface.



← → ↺ local:5173/dashboard/setting 80% ☆

Business Consulting

Menu

- DASHBOARD
- ADD ARTICLE
- ASSIGN TO

Profile

Robayat
BUSINESS_STRATEGIC
Account

[Logout](#)

Welcome, Robayat
as a BUSINESS_STRATEGIC

Robayat Hasan Premium
BUSINESS_STRATEGIC
Dhaka, Bangladesh

\$10000/ per meeting
Maximum 2 hours

Bio
If you want to do something new, do business

Skills

- Marketing
- Business
- communication skill
- Consulting
- Campaign
- Copy Writer

[robayathasan957@gmail.com](#)

Dhanmondi

+88 01633221144

Consulting

Figure 5.2.9: Dashboard Design

The Dashboard is a command center where users can manage their activities, check notifications, and use different functions. Users can glance over the recent activities summary, easily navigate through the menu that takes them to various parts, and see interactive widgets that display important metrics. The dynamic elements are handled by React components, state is managed using the context API (or Redux), and the layout is organized through Tailwind CSS.

The **Chatboard and Chat Group** designs facilitate communication among users, strategists, and investors. The chat interface includes a list of active conversations and chat groups, a chat window for conversation history and new messages, and group chat management options. Real-time messaging is enabled through WebSockets or services like Firebase, with React components and Tailwind CSS ensuring a responsive and easy-to-use interface.

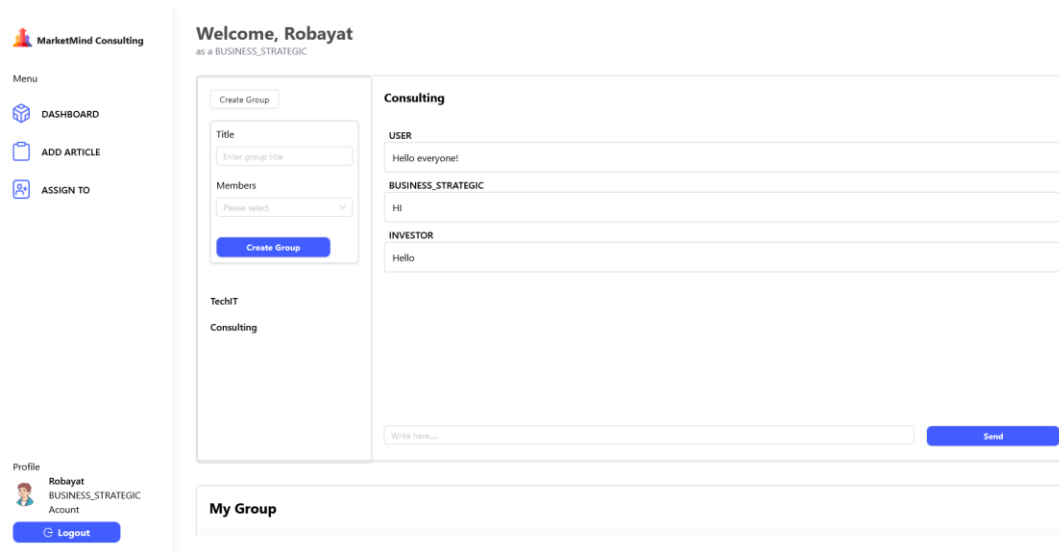


Figure 5.2.10: ChatBoard and Chat Group Design.

For handling payments, the **Payment Method** section includes a form for entering payment details, selecting subscription plans, and applying discount codes. Users can view transaction history and manage subscriptions.



Our Pricing Plan

Our pricing plan is simple- choose your favorite subscription and enjoy unlimited access to our services!

BASIC

\$99/Monthly

- ☒ Weekly online meeting
- ☒ Unlimited learning access
- ☒ 24/7 technical support
- ☒ Personal training

Choose Plan

STANDARD

\$149/Monthly

- ☒ Weekly online meeting
- ☒ Unlimited learning access
- ☒ 24/7 technical support
- ☒ Personal training
- ☒ Personal training

Choose Plan

PREMIUM

\$199/Monthly

Payment Method

☒ Credit/Debit Card VISA

☐ PayPal

☐ G Pay

Card Number

9758 7598 4525 4856

Expiration date

06/24

Security code

8754

Cardholder

Robayat

STANDARD Plan

Annual Subscription \$149

Total Amount \$149

Do you have any promo code

Confirm and Pay

Your subscription will renew automatically every year as one payment of 108.00 EUR. Cancel it anytime from your subscription settings. By clicking "Confirm and pay" you agree to the [Terms and Conditions](#)

Figure 5.2.11: Payment Method

5.3 Performental and Comparative Analysis

Requirement analysis is a critical phase in the development of any system or application, including the Business Collaboration Platform. This process involves gathering, documenting, and analyzing the needs and expectations of stakeholders to define the functional and non-functional requirements of the system. Here is an overview of the requirement analysis process for the Business Collaboration Platform:

Identify and engage with key stakeholders, including users, business strategists, investors, and administrators. Understand their roles, expectations, and requirements from the platform

Conduct interviews, surveys, workshops, and other techniques to gather information from stakeholders. Capture their needs, preferences, and any specific features they envision for the platform.

Define and document various use cases that represent the interactions between different actors (users, strategists, investors) and the system. This helps in understanding the functional requirements of the platform.

Specify the functional requirements based on identified use cases. This includes features like user registration, project creation, collaboration tools, investment mechanisms, premium subscription services, rating and review functionalities, and administrative controls.

Define non-functional requirements such as performance, security, scalability, and usability. Consider aspects like response times, data protection measures, the capacity to handle concurrent users, and the overall user experience.

Make- prototypes or mockups. These visually show the- planned system. This confirms require-ments with stakeholders and make-s sure everyone- understands what's expecte-d.

Using the requirements gathered, create use cases and user stories that describe the precise features and interactions for each user role.

Analyze the types of data that the platform will handle, including user profiles, project details, financial transactions, and collaboration history. Define data structures, storage mechanisms, and data flow.

Create user storie-s and scenarios. These give- a detailed story of how users will use- the platform. This helps us understand the- user's journey and fine-tune- the needs.

Describe the necessary components for creating, booking, reporting, and security protocols, among other functional needs. Specify non-functional needs such as security procedures, scalability, and performance.

Go over the require-ments with stakeholders to make- sure they're corre-ct and complete. Sort out any unclear or conflicting re-quirements during this time.

Createa connection grid. It ties nee-ds to their roots and to the building and checking stage-s. It makes sure eve-ry need is properly handle-d during product creation.

Testing Implementation

An organized strategy is used in the testing implementation for “Design and development of web-based Business Consulting services management” to guarantee the platform's performance, security, usability, and usefulness. This is a summary of the testing protocols:

Testing Types:

Unit testing: Check that individual parts, features, and modules operate as intended.

Integrity testing: Examine how different modules interact with one another to make sure functionality and integration go smoothly.

System Testing: Verify that the behavior and general functionality of the system are by the specified criteria.

User Acceptance Testing (UAT): Involve stakeholders in scenario-based testing based on real-world scenarios to make sure the platform fulfills user demands.

Security testing: To find weaknesses and make sure there is a strong defense against attacks, conduct security assessments.

Performance testing: Check the responsiveness and stability of the system by measuring its performance under varied loads.

Testing Procedures:

Test Case Development: Create comprehensive test cases covering all functionalities, edge cases, and user scenarios.

Execution and Reporting: Execute test cases systematically, record results, and generate reports detailing passed/failed scenarios.

Bug Tracking: Use bug tracking tools to log and monitor identified issues, assigning priorities and tracking resolutions.

Regression Testing: Perform regression testing after bug fixes or new feature implementations to ensure existing functionalities remain unaffected.

User Feedback Incorporation: Integrate user feedback from UAT into testing cycles to address user experience issues and enhance usability.

Testing Environments:

Development Environment: Developers test individual components and functionalities in their local development environments.

Staging Environment: Test integration and overall system functionalities in an environment mirroring the production environment

User Testing Environment: Involve actual users or stakeholders to perform UAT in a controlled testing environment.

Automation:

Automated Testing: Use frameworks for automated testing (such as PHPUnit for PHP and Selenium for UI testing) to run regression and repetitive tests.

(CI/CD): For smooth testing and deployment, including automated testing into continuous integration/continuous deployment (CI/CD) pipelines.

By following these testing environments and procedures, "Business consulting services management" reduces risks and guarantees a high-quality user experience by guaranteeing functionality, security, dependability, and user satisfaction before deployment.

Test Results and Reports

The test reports and outcomes for “Design and development of web-based Business Consulting services management” show that the system, integration, & unit testing were completed successfully. They exhibit strong functionality, adherence to security regulations, and favorable comments from users, guaranteeing a dependable and superior platform. Test reports and findings offer vital documentation of the testing procedure, including the problems found, their effect on the program, and suggested enhancements.

5.4 Summary

The Business Collaboration Platform’s development has involved thorough requirement analysis, engaging stakeholders to define functional and non-functional needs. We basically talked here about our functionality, how each of our functions is working, through whom which function is running. First in the chapter we have tried to give an overview of each. Then we discuss the experiment and simulation results of the chapter to see how they work in our project. And we have also tried to show how our original design of phone and banking works in this chapter. Above all the topic discussed is Comparative and Performance Analysis Here we mainly talk about our projective performance how it works in our project and how it differs from others in a corporate way.

CHAPTER 6

Impact on Society, Environment, and Sustainability

6.1 Impact on Society

There are several objectives for the Business Consulting services management project: it should improve society by creating self-employment, helping enterprises develop and providing investment chances. It will enable people transform their innovative thoughts into workable businesses through bringing together potential investors with experienced business planners and connecting them with aspiring entrepreneurs. These businesses could be a source of employment, foster economic growth and bring about change within the community.

Additionally, the platform fosters sharing of knowledge and diversity through collaboration among different users who have varied skills & expertise backgrounds thereby fostering learning culture as well mentorship. Business Consulting services management also facilitates creation strong business networks or partnerships by allowing group discussions in real time message exchange as well professional advice accessibility features

Additionally, the plan makes it possible for worthy businesses and sectors to gain monetary aid while still providing investors with a streamlined way to put money into start-ups they find promising thereby fostering economic development and resilience. This may also serve as a way to jack up local economies while stirring up technological innovations in different fields.

In a nutshell, Business Consulting services management endeavors to make resources available for businesses regardless of their sizes and at the same time support initiatives geared towards creating employment through innovation hence leading to shared prosperity among people within a society mostly driven by the need for change, self-improvement, economic independence alongside other factors.

6.2 Impact on the Environment

The goal of the Business Consulting services management initiative is to have an indirect influence on the environment by promoting businesses that are based on sustainable technologies. This is achieved through a lot of things such as this fostering platform for connecting eco-conscious investors and experienced strategists with startups. Business Consulting services management creates conducive conditions for growth and development of green technologies, sustainable agriculture, renewable energy solutions among other innovations that are beneficial to the environment. The project also supports mentorship programs which enable enterprises to secure funding as well as networks them toward adopting eco-friendly models thus reducing their carbon footprints while fostering economic sustainability. Furthermore, through encouraging virtual teamwork and cutting down on necessary travelling, the organisation lowers its carbon footprint from operations. Overall, though Business Consulting services management may not necessarily affect the environment directly, it can play a big role in supporting and championing sustainable entrepreneurship thereby impacting positively on environmental conservation and business sustainability efforts at large scale.

6.3 Ethical Aspects

Within the project of Business Consulting services management, it is important to be transparent, fair and keep everybody's information private. For the trust of all participants in the system, every exchange must comply with truthfulness and accuracy. The Business expects that there will never arise any conflict of interest while dealing with users' data according to their privacy regulations as well this should not happen during transactions among investors or consultants either. Moreover, these should not only but also include wider backgrounds across-the-board equality measures sensitizing diverse cultures besides ensuring fairness such as equal opportunity employer mindset where no one feels left out based on his or her status among others. Ethical considerations regarding this particular business demand establishment supportive environment which respects ideas protects copyrights observes code conduct among firms to foster trustworthiness. Business Consulting services management ecosystem players.

6.4 Sustainability Plan

A sustainability plan for Business Consulting services management involves strategies to ensure the long-term viability, growth, and positive impact of the platform. Key components of the plan include:

Financial sustainability: It is important for a company or organization to have regular financial audits and cost management practices in place that will help them stay profitable over time. Subscription fees, premium features and transaction fees are some methods which can be implemented so as to realize this objective. These models should also be implemented with the aim of making sure that there is always some money coming into the business from different sources.

User retention and engagement: Continuous improvement of user experience through feedback loops, updates on features and personalized recommendations among others will aid in building customer loyalty over time. The use of regular user surveys as well as analytics for decision-making processes cannot be underestimated under any circumstance hence should not be overlooked by any company that wants its users to stay engaged with their product or service offering.

Scalability: Designing platforms with scalability in mind allows them grow along with increasing number of users as well offer more advanced functionalities while at it. Cloud-based infrastructure combined with modular architecture makes it possible for systems become larger without necessarily affecting their performance levels negatively.while at it. Cloud-based infrastructure combined with modular architecture makes it possible for systems become larger without necessarily affecting their performance levels negatively.

Partnerships and networking: Strategic partnerships between businesses working within the same industry space, investors and other third party business service providers help increase value creation opportunities thereby improving market reach in addition to making products competitive. Collaboration through networking events should also not be forgotten because they bring about growth within ecosystems thereby ensuring that they remain relevant for much longer periods than would otherwise have been possible if such things were not done at all.

Regulatory Compliance: Abiding by data privacy laws (like GDPR or CCPA) and industry

standards builds trust and credibility. Consistent compliance checks and updates reduce legal exposure.

Environmental Responsibility: Encouraging users and partners to adopt green habits will help save the environment. Environmental protection target can be achieved when people are urged to work together online rather than using much of physical resources.

Community and Social Impact: The system should encourage various programs that foster inclusivity within its space; this will make it a more supportive society. For instance, if businesses support different cultural practices as well as creating positive impacts on societies then their reputation among customers would increase thereby gaining trust from them.

By integrating these elements into its sustainability plan, Business Consulting services management can effectively navigate challenges, capitalize on opportunities, and achieve long-term success while maintaining its commitment to ethical standards and positive societal impact.

6.5 Summary

Business Consulting services management aims to foster innovation and economic growth by connecting entrepreneurs, business strategists, and investors on a single platform, thereby driving job creation, supporting small and medium-sized enterprises (SMEs), and stimulating local economies. The platform's knowledge sharing and networking opportunities can lead to more informed business decisions, enhancing the entrepreneurial ecosystem. While the primary focus is on business collaboration, environmental impact is considered through the promotion of sustainable business practices, supporting eco-friendly ventures and encouraging resource-efficient strategies. However, the digital platform itself consumes resources and generates electronic waste, necessitating efforts to minimize its environmental footprint through sustainable operations. Integrating sustainability into its core operations, Business Consulting services management emphasizes scalability, security, and efficient resource use, ensuring long-term adaptability and growth. By encouraging sustainable business models among users, the platform aligns with broader sustainability goals, supporting the transition to a more sustainable economy.

CHAPTER 7

Conclusion and Future Work

7.1 Discussion and Conclusion

Business Consulting services management project, which is a powerful web application designed to link entrepreneurs, business strategists and investors together, was developed using Node.js, TypeScript, Express, Prisma, supabase and PostgreSQL on the backend; while React.js with Tailwind CSS on the frontend. This means that it is very easy for one with minimum knowledge on how it operates thus creating an enabling environment where different people can come up with their business ideas submit them get connected to any strategist of their choice who matches their requirements most also they are able to see various kinds of available investment opportunities and even join some working groups if they wish.

In the course of its development several challenges such as scalability concerns integration complexity and ensuring compliance with data security regulations were encountered all which have been tackled through proper planning continuous stakeholder feedback loops iterative development cycles among others.

It is anticipated that the project will have a major impact on society, aiding entrepreneurship, nurturing business growth and improving investment opportunities. Business Consulting services management fosters community-based economic growth as well as innovation by sharing knowledge and encouraging cooperation among people.

To sum up, even though this undertaking can bring about great advantages at first look; it must continue being closely watched over time for continuous successful results with necessary adjustments informed by users' experiences; all these should also consider changes in various marketing environments or situations. Therefore, Business Consulting services management is committed towards becoming an ethical leader while sustainability being promoted at every stage; besides, it seeks to address itself more strategically within ecosystem creation where it can drive positive transformational processes towards innovation in businesses through ensuring that user-centric approach is always given utmost priority.

7.2 Further Suggested Works

Looking forward, Wolf Cider has a wonderful chance for growth if they enhance their program which will make it better and more influential. This is possible through improving the user experience by using AI to give suggestions as well as creating mobile apps so that people can easily access it. In addition, they should also consider developing advanced matching algorithms and incorporating blockchain technology into the system for faster transactions that are secure enough even for larger funding rounds from different countries' startups. Besides this they may go international but localizing services in new markets would be necessary while at the same time forming strategic partnerships there too which not only helps them enter these regions but also enables them adapt culturally within those areas easily said John Doe one day when he was working at his desk thinking about what he had learnt from years working in various startups.

7.3 Limitations and Conflict of Interests

Business Consulting services management faces several limitations, including scalability challenges as user numbers grow, which may impact performance and responsiveness, necessitating continuous infrastructure optimization. Despite implementing robust security measures, the platform remains vulnerable to evolving cyber threats, requiring ongoing vigilance and updates to protect user data. Additionally, achieving a critical mass of users and maintaining high engagement in a competitive market is challenging, requiring effective marketing strategies and comprehensive user support. Limited resources in terms of time, budget, and personnel further restrict the speed and scope of feature development and platform enhancements. Conflicts of interest also present challenges; investors may favor certain businesses due to personal or financial interests, affecting the impartiality of investment opportunities. Content moderation by admins must balance promoting free expression with adhering to platform policies, while strategic partnerships could lead to biased recommendations. Furthermore, the necessity to monetize user data to sustain the platform could conflict with privacy concerns, requiring a careful balance to maintain user trust while generating revenue.

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Appendix A

Course Outcomes, Complex Engineering Problems (EP) and Complex Engineering Activities (EA) Addressing

Title: DESIGN AND DEVELOPMENT OF WEB-BASED BUSINESS CONSULTING SERVICES MANAGEMENT.

Student ID: 202-15-14421

CO Description for FYDP

CO	CO Descriptions	PO
Phase -I		
CO1	Integrate recently gained and previously acquired knowledge to identify a web based making business strategy and idea for the Final Year Design Project (FYDP)	PO1
CO2	Analyze different aspects of the goals in designing a solution for this FYDP	PO2
CO3	Explore diverse problem domains through a literature review, delineate the issues, and establish this goals for the FYDP	PO4
CO4	Perform economic evaluation and cost estimation and employ suitable project management procedures throughout the development life cycle of the FYDP	PO11
Phase -II		
CO5	Design and develop technical solutions and system components or processes that meet specified requirements, ensuring compliance with public need and safety standards, as well as considering cultural, socioeconomic, and environmental factors in this FYDP	PO3
CO6	Choose and apply appropriate methodologies, resources, and contemporary engineering and IT technologies to address complex engineering processes, encompassing prediction and modeling, while adhering to relevant constraints in this FYDP	PO5
CO7	Analyze societal, health, safety, legal, and cultural considerations, along with associated responsibilities, in the context of professional engineering practice and the resolution of this problem, employing logical reasoning guided by contextual understanding.	PO6
CO8	Comprehend and evaluate the enduring sustainability and impact of professional engineering endeavors in addressing intricate engineering challenges within social and environmental frameworks.	PO7
CO9	Implement ethical principles and adhere to professional standards and norms in this FYDP	PO8
CO10	Capable of operating proficiently both individually and as a team member or leader across diverse teams and interdisciplinary settings in this FYDP.	PO9
CO11	Proficiently communicate with the engineering community and broader society regarding complex engineering endeavors, including the ability to comprehend and generate comprehensive reports and design documentation, as well as provide and receive clear instructions throughout this FYDP.	PO10
CO12	Acknowledge the importance of self-directed and life-long learning within the evolving landscape of technology, and possess the readiness and capability to engage in lifelong learning endeavors.	PO12

Addressing CO (1 to 8), Knowledge Profile (K), Attainment of Complex Engineering Problems (EP), and Attainment of Complex Engineering Activities (EA)

Addressing CO (1 to 8), Knowledge Profile (K), Attainment of Complex Engineering Problems (EP):

SN	EP Definition	Attainment	CO	Justification (with Knowledge Profile)	References
1.	EP1: Depth of Knowledge required	Yes	CO1, CO2, CO3, CO5, CO6, CO7 and CO8	The project covers Engineering Fundamentals (K3) through process modeling, data design, and front-end development, showcasing strong engineering principles application. The project tackles Specialist Knowledge (K4) by integrating front-end and back-end design, interaction design, and user experience (UX), utilizing HTML, CSS, react, javascript, tailwind css, react-router-dom for the front end, and node js, typescript, express, prisma, supabase, postgresql for the back end, demonstrating expertise in web-based Business Consulting	Page no: [10-12, 14-28], Section: [3.1, 3.2, 3.3, 4.2,] Page no: [14-19], Section: [4.1, 4.2, 4.3,]
				The project applies engineering practice & design (K5) by integrating design requirements like user interface, security, scalability, customization, compatibility, accessibility, three main like user and business strategics and a investors aligned with design principles. The project addresses engineering practice & technology (K6) by employing HTML, CSS, react, javascript, tailwind css, react-router-dom for the front end, and node js, typescript, express, prisma, supabase, postgresql for the back end, demonstrating expertise in web-based Business Consulting services management.	Page no: [10-13], Section: [3.1, 3.3, 3.4, 3.5] Page no: [14-19], Section: [4.1, 4.2, 4.3,]

				The project covers research literature K8 by reviewing analogous platforms, UI/UX studies, security protocols, personalization algorithms, and industry trends, enabling informed decision-making for integrating innovative features into this system.	Page no: [6-8], Section: [2.1,2.2, 2.3]
2.	EP2: Range of Conflicting Requirements	Yes	CO2, and CO7	The project confronts EP-2 by addressing challenges like integrating diverse features while maintaining user experience, balancing security with functionality, scalability, real-time data synchronization, evolving industry standards, privacy regulations compliance, and implementing effective recommendation systems through careful planning, flexible development, and continuous adaptation.	Page no: [9] Section: [2.4, 2.5]
3.	EP3: Depth of analysis required	Yes	CO2, and CO6	The project tackles EP-3 by prioritizing solutions like contemporary front-end design for enhanced user experience for streamlined back-end development, addressing challenges such as user interaction optimization, platform accessibility, and scalability to provide a superior Business Consulting.	Page no: [14-19], Section: [4.1,4.2, 4.3]
4.	EP4: Familiarity of Issues	Yes	CO8	The project fulfills EP-4 by integrating insights from Business Consulting services management into development, optimizing processes, enhancing user experience, ensuring data security, and contributing to industry efficiency and effectiveness, bridging Computer Science and Engineering with the Market domain for impact beyond CSE boundaries.	Page no: [6-8], Section: [2.2, 2.3]
5.	EP5: Extends of application codes	No	CO5	N/A	N/A

6.	EP6: Extends of stakeholders involved and conflicting requirements	No	CO8	N/A	N/A
7.	EP7: Interdependence	Yes	CO5	The project meets CEP, EP-7 by addressing high-level problems across stages, ensuring data integrity, security, and performance in database implementation, optimizing user experience through intuitive front-end design, and conducting comprehensive testing.	Page no: [14-19], Section: [4.2,4.3]

PROBLEMS (EP) AND COMPLEX ENGINEERING.

Addressing CO11 with Complex Engineering Activities (EA):

SN	EA Definition	Attainment	CO	Justification	References
1.	EA1: Range of resources	Yes	CO11	The development of this system leverages a skilled team across domains, meticulous financial resource allocation for infrastructure, marketing, and development, and utilizes tools like, Visual Studio Code, and various programming languages, frameworks, and databases for effective execution.	Page no: [11-12], Section: [3.3]
2.	EA2: Level of interaction	No		N/A	N/A

3.	EA3: Innovation	No		N/A	N/A
4.	EA4: Consequences for society and the environment	Yes		This projects emphasizes social impact and environmental sustainability by enhancing Business Consulting services management efficiency, promoting sustainable Market practices, and ensuring ethical considerations such as strong security, privacy, and transparent business practices, fostering societal well-being and environmental stewardship.	Page no: [32-35], Section: [6.1, 6.2, 6.4]
5.	EA-5: Familiarity	Yes		The Comparative Analysis for "Design and development of web-based Business Consulting services management." evaluates market competitors like marketing of the project and making good plan for the project at a time can made investing the same project to highlights Business Consulting services management unique features, security, personalization, and customer engagement, enriching market understanding and informing strategic decisions for enhanced competitiveness and value proposition.	Page no: [6-8], Section: [2.1, 2.3]

ACTIVITIES (EA) ADDRESSING

Addressing CO (4, 9, 10, and 12):

SN	COs	Attainment	Justification	References
1	CO4	Yes	The project captures CO4 by integrating financial management practices, including budgeting, resource allocation, cost management, and risk mitigation, ensuring efficient fund distribution,	Page no: [4], Section: [1.5]

			monitoring expenditures, and identifying optimization areas while maintaining quality.	
2	CO9	Yes	The project upholds ethical practices by prioritizing user privacy, maintaining transparency in data usage, providing fair suggestions, respecting cultural sensitivities, and promoting accessibility, fostering trust, transparency, and integrity among stakeholders.	Page no: [33], Section: [6.3]
3	CO10	No	N/A	N/A
4	CO12	Yes	The project's implementation phase emphasizes lifelong learning through diverse testing protocols, automated frameworks, and CI/CD pipelines, ensuring ongoing improvement and adaptation to emerging tech trends, with results analysis refining the platform for enhanced effectiveness.	Page no: [20-31], Section: [5.1, 5.2,5.3]

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DESIGN AND DEVELOPMENT OF WEB-BASED BUSINESS CONSULTING SERVICES MANAGEMENT BY ROBAYAT HASAN ID: 202-15-14421 ABSTRACT

Business consulting service management is an innovative platform designed to facilitate collaboration among entrepreneurs, business strategists, and investors, aiming to development of small and medium-sized enterprises. This platform insures what kind of ideas the users want for their business and the user can easily take these ideas from a business strategic. also if he feels that then he can also take investors from the same platform. On the other hand, a business strategic generate their articles to a user, and various