

**MY TRAVEL – WEB BASED TRAVEL MANAGEMENT SYSTEM
(TMS)**

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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July 2024

APPROVAL

This Project titled "My Travel–Web Based Travel Management System (Tms)", submitted by **Bibhu roy and ID:193-15-13356** 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 **15-07-2024**.

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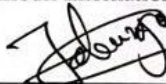
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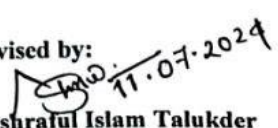
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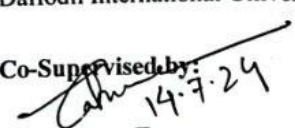
DECLARATION

We hereby declare that this project has been done by us under the supervision of **Md.Ashraful Islam Talukder, Lecturer, Department of Computer Science and Engineering, 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.

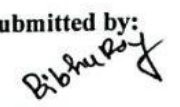
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ACKNOWLEDGEMENT

First, I express our heartiest thanks and gratefulness to almighty for His divine blessing making it possible for us to complete the final year project successfully.

I would grateful and wish our profound in debtedness to **Md.Ashraful Islam Talukder,Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “(TMS)” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energeticsupervision,constructivecriticism,valuabledvice,readingmanyinferiordrafts, and correcting them at all stages have made it possible to complete this project.

Iwould like to express our heartiest gratitude to the **Professor,Dr.Sheak Rashed Haider Noori Head of the Department of CSE**,for his kind help in finishing my project and also to other faculty members and the staff of the Department of CSE, Daffodil International University.

Finally, I must acknowledge with due respect the constant support and patience of our parents.

ABSTRACT

The user-friendly Web-based travel management system (TMS) "MyTravel" was created with three main stakeholders in mind: system administrators, organizers, and customers all of whom want to travel more easily and more comfortably. This cutting-edge platform combines state-of-the-art technology to provide an extensive feature set catered to the various demands of every stakeholder. The "MyTravel" System Administrator module provides administrators with powerful capabilities to monitor system configurations, manage user accounts, and guarantee the platform's security and seamless functioning. Administrators are empowered to ensure that all users are working in an effective and safe environment by implementing updates, configuring access levels, and maintaining system integrity. "MyTravel" offers Organizers a user-friendly interface for effortlessly planning, organizing, and managing travel-related tasks. This module provides features for efficiently managing reservations, creating and customizing trip packages, organizing itineraries, and supervising logistical preparations. Using real-time data and reporting capabilities, organizers may maximize their clients' travel experiences and make well-informed decisions. Customers who utilize "MyTravel" benefit from a user-friendly interface that makes booking and organizing travel hassle-free. Customers may easily manage their travel preferences, book and explore a variety of travel alternatives, and obtain comprehensive itineraries through an intuitive interface

Keywords:My travel, Web base, Traveling,Management,Equipment,Advising.

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CHAPTER 1

INTRODUCTION

1.1 Overview

My Travel is a web-based travel management system designed to streamline the travel planning, booking, and management process for individuals and organizations. The system aims to revolutionize the travel management process by offering a comprehensive, integrated, and user-friendly platform that addresses the challenges faced by both individuals and organizations. My Travel's organizational structure includes Executive Management, Product Development, Integration and Partnerships, Customer Support, Marketing and Sales, Finance and Administration, and Security and Compliance. The system offers a wide range of features, including comprehensive itinerary planning, real-time data and notifications, expense management, an intuitive interface, and advanced security measures. It addresses several key issues in the travel management industry, such as integration challenges, user adoption and training, customization limitations, expense reporting accuracy, security and privacy concerns, internet dependence, real-time notification reliability, and customer support scalability. My Travel addresses integration challenges by ensuring seamless data synchronization with travel service providers, providing comprehensive training programs, continuously expanding and refining customization features based on user feedback, implementing automated data capture methods, maintaining rigorous security protocols, exploring options for offline functionality, enhancing notification infrastructure, and utilizing AI-driven support solutions. In conclusion, My Travel aims to deliver a superior travel management experience by integrating advanced technologies, offering robust features, and addressing critical issues in the industry. By focusing on user adoption and training, the system aims to meet the evolving needs of both individuals and organizations, setting a new standard in the travel management industry.

1.2 Background and Present State

Background

Travel management systems have evolved significantly over the years, becoming indispensable tools for both corporate and individual travelers. Historically, travel

planning involved manual processes, including phone calls to travel agents, physical ticketing, and paper itineraries. The advent of digital technologies in the late 20th century revolutionized this landscape, introducing computerized reservation systems and online booking platforms. These innovations streamlined the booking process, offering users the convenience of booking flights, accommodations, and other travel services from a single interface.

Present State

Today, travel management systems are highly sophisticated, integrating a wide array of features such as real-time updates, personalized recommendations, expense tracking, and seamless integration with mobile devices. They leverage advanced technologies like artificial intelligence and machine learning to enhance user experience, providing predictive analytics for better decision-making. Additionally, these systems often include robust security measures to protect sensitive user data. The current state of travel management systems reflects a user-centric approach, prioritizing convenience, efficiency, and personalized service to meet the dynamic needs of modern travelers.

1.3 Problem Statement

Despite the advancements in technology and the availability of numerous travel management solutions, managing travel plans and expenses remains a complex and time-consuming task for both individual travelers and organizations. Traditional methods of travel management often involve disjointed systems, manual processes, and a lack of real-time information, leading to inefficiencies, increased costs, and a poor user experience. Additionally, the ever-changing nature of travel, with frequent updates to flight schedules, hotel availability, and travel policies, exacerbates the challenges. There is a pressing need for a comprehensive, integrated, and user-friendly web-based Travel Management System (TMS) that can streamline the entire travel process, from planning and booking to expense management and real-time updates. My Travel aims to address these challenges by providing a centralized platform that simplifies travel management, enhances efficiency, reduces costs, and improves the overall travel experience for users.

1.4 Objectives

The primary objective of My Travel - Web Based Travel Management System (TMS) is to revolutionize the travel management process by offering a comprehensive, integrated, and user-friendly platform that addresses the multifaceted challenges faced by both individual travelers and organizations. By leveraging cutting-edge web technologies, My Travel aims to streamline every aspect of travel management, from initial planning and booking to expense tracking and real-time updates. The system is designed to provide users with a seamless and efficient experience, reducing the time and effort required to manage travel plans and expenses. My Travel seeks to integrate a wide array of travel services, including flights, hotels, car rentals, and travel insurance, into a single, cohesive platform, thereby eliminating the need for users to navigate multiple systems and websites. Furthermore, My Travel aims to enhance the customization and personalization of travel itineraries, allowing users to tailor their travel plans to meet specific preferences and requirements. The system also focuses on robust expense management features, providing tools for accurate expense reporting, receipt management, and policy compliance, ultimately helping organizations control travel costs and streamline reimbursement processes. Another key objective is to ensure that users remain informed and up-to-date throughout their journey by offering real-time notifications and updates on flight statuses, hotel reservations, and other travel-related information. In addition to its functional goals, My Travel prioritizes data security and privacy, employing advanced measures to safeguard sensitive user information and comply with industry standards and regulations. By offering comprehensive customer support and continually evolving to incorporate the latest technological advancements, My Travel aspires to set a new standard in the travel management industry, delivering unparalleled convenience, efficiency, and satisfaction to its users.

1.5 Scope and Limitations

The scope of "My Travel," a web-based Travel Management System (TMS), includes streamlining travel bookings, itinerary management, and expense tracking for users. The system facilitates seamless communication between travelers and service providers, enhancing user experience with real-time updates, secure payment processing, and comprehensive reporting features. It aims to serve both individual travelers and corporate clients, offering customizable options for various travel needs.

However, the system has certain limitations. It relies heavily on internet connectivity, which can be a drawback in regions with poor network coverage. The initial setup and integration with existing systems may require significant time and technical expertise. Additionally, while the system provides secure data handling, it is still susceptible to cybersecurity threats, necessitating ongoing monitoring and updates. Finally, the platform may face challenges in adapting to rapidly changing travel industry regulations and user preferences.

1.6 Report Organization

Developing a thorough report layout for “My travel-Web-based travel management system (TMS)” entails organizing several parts to highlight the specifics of the project, its stages of development, its features, and its results. An outline for the report layout may be seen below:

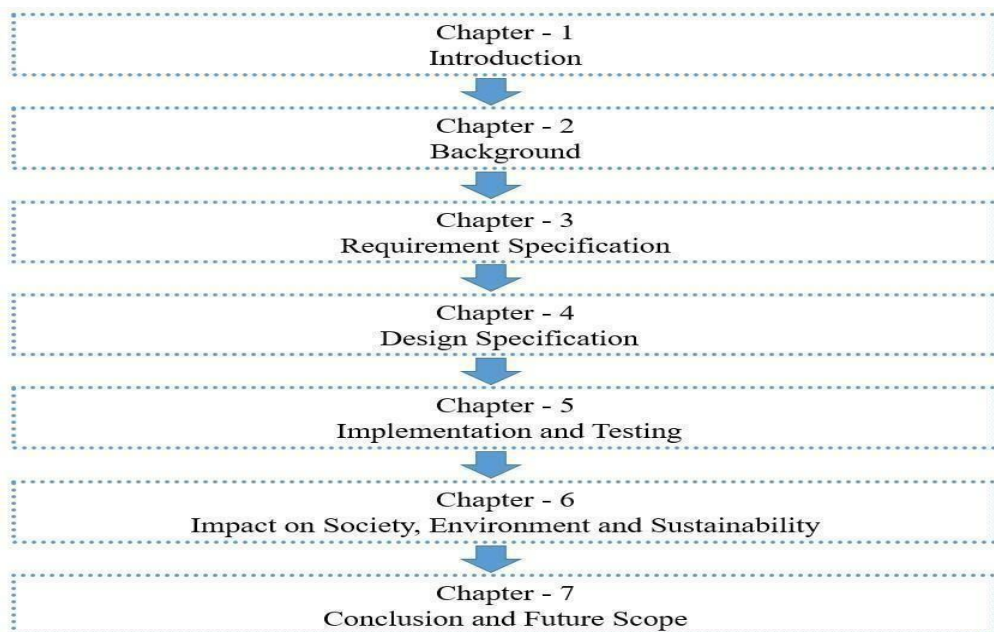


Figure1.1.1: Report Layout of this Project.

1.7 Summary

The organizational structure of My Travel - Web Based Travel Management System (TMS) is designed to support its mission of revolutionizing travel management by providing a comprehensive, integrated, and user-friendly platform. The organization is divided into several key departments, each with specific roles and responsibilities. Executive management, led by the CEO and CTO, oversees the overall vision, strategy, and technological implementation. The product development team, including product managers, software developers, and QA testers, ensures the system is robust, scalable, and meets user needs. Integration and partnerships are managed by the integration manager and API developers, who maintain seamless connections with travel service providers. Customer support, led by the customer support manager and supported by agents, ensures high levels of user satisfaction. Marketing and sales, driven by the marketing manager and sales team, promote the platform and attract new users. Finance and administration, overseen by the CFO and accountants, ensure financial health and regulatory compliance. Security and compliance, managed by the security manager and compliance officer, protect user data and ensure adherence to industry standards. This well-structured organization ensures My Travel delivers an unparalleled travel management experience, continuously evolving to meet user needs and technological advancements.

CHAPTER 2

LITERATURE REVIEW

2.1 Overview

A travel management system is a comprehensive tool that allows users to book and manage their travel activities. Key terms used in this system include API (Application Programming Interface), itinerary (detailed schedule), booking (reservation of travel services), reservation system (software application managing the booking process), travel policy (guidelines for employee travel), GDS (Global Distribution System), Travel Management Company (TMC), PNR (passenger name record), expense management, loyalty program, corporate rate, and travel risk management. APIs enable communication between different software applications, enabling integration with third-party services like airlines, hotels, and car rental companies. It also provides a booking engine for users to search for available options, compare prices, and make reservations directly through the platform. Reservation systems manage the availability, pricing, and inventory of travel products, preventing overbooking. Travel policies are guidelines established by organizations to manage employee travel, ensuring cost control, safety, and compliance with company regulations. GDS networks enable automated transactions between travel service providers and agencies, providing a centralized platform for booking and managing travel's provide travel management services to businesses and organizations, offering services such as travel booking, expense management, and travel policy compliance. They leverage their expertise and relationships with travel service providers to secure better rates and streamline the travel process for their clients. Travel risk management involves identifying, assessing, and mitigating risks associated with business travel, including providing travelers with information on potential hazards.

2.2 Related Work

TheExamining analogous platforms, technologies, and studies that tackle travel management, user interfaces, security, and customized services are all part of the related study for " My Travel - Web-based travel management system (TMS)". This is a summary of relevant literature:

Website: SAP Concur

Offers integrated travel, expense, and invoice management solutions to streamline business travel and expense processes.

Website: Travel Perk

A travel management platform providing real-time booking, expense management, and policy compliance features for businesses.

Website: Egencia

A corporate travel management service from Expedia Group, offering comprehensive booking, expense management, and travel policy enforcement tools

Website: Trip Actions

Overview: A travel management company that uses AI-powered recommendations, real-time expense tracking, and policy compliance to provide personalized travel solutions.

Website: CTM

Provides corporate travel management services, including booking, expense management, and travel policy compliance.

2.3 Comparative between existing work

Feature/Aspect	SAP Concur	Travel Perk	Egencia	Trip Actions	CTM	Serko
TravelBooking	Yes	Yes	Yes	Yes	Yes	Yes
Expense Management	Yes	Yes	Yes	Yes	Yes	Yes
Itinerary Management	Yes	Yes	Yes	Yes	Yes	Yes
Policy Compliance	Yes	Yes	Yes	Yes	Yes	Yes
Real-Time Booking	Yes	Yes	Yes	Yes	Yes	Yes
Mobile Integration	Yes	Yes	Yes	Yes	Yes	Yes
Reporting& Analytics	Yes	Yes	Yes	Yes	Yes	Yes
AI-Powered Recommendations	No	Yes	No	Yes	No	No
Integrationwith Other Systems	Yes	Yes	Yes	Yes	Yes	Yes

UserInterface (UI/UX)	Modern	Modern	Modern	Modern	Modern	Modern
Security	High	High	High	High	High	High
TargetAudience	Enterpris es	SMBs &Enterpris es	Enterpris es	SMBs &Enterpris es	Enterpris es	Enterprise s

A comparative analysis for "My travel – Web based travel management system (TSM)" involves assessing similar existing platform subsystems in the market. Here's a breakdown for a comparative analysis

2.4 Open Issues

My Travel - Web Based Travel Management System (TMS) faces several open issues that need to be addressed for its continued success and user satisfaction. These include the dependency on external travel service providers for real-time data, which can affect the accuracy and reliability of information presented to users. Additionally, user adoption and training are crucial for effective utilization of the system. Customization limitations exist, and users with unique travel requirements may find the system insufficient. Expense reporting accuracy relies on precise input of data, and any discrepancies or errors can lead to incorrect reports and compliance issues. Security and privacy concerns require constant vigilance and updates to security protocols. Internet dependence is another issue, as the system relies on internet connectivity. Real-time notification reliability is another concern, and customer support scalability is another challenge. Addressing these issues is essential for the continued success and improvement of My Travel's platform, ensuring that the platform provides an exceptional travel management experience for its users.

2.5 Summary

The literature on travel management systems (TMS) emphasizes the importance of technological advancements, user experience, expense management, security, customer support, and organizational impact. The integration of real-time data analytics, artificial intelligence, and machine learning enhances system functionality and efficiency. An intuitive user interface with customizable itineraries and real-time notifications boosts user satisfaction. Security and data privacy are crucial, with encryption and multi-factor authentication. Comprehensive customer support maintains user satisfaction. A well-implemented TMS can lead to cost savings, improved policy compliance, and enhanced.

CHAPTER 3

REQUIREMENT ANALYSIS & DESIGN SPECIFICATION

3.1 Overview

The Requirement Analysis & Design Specification for My Travel - Web Based Travel Management System (TMS) meticulously outlines the system's functional and non-functional requirements along with its architectural design. This comprehensive analysis begins by identifying the key stakeholders and their needs, such as booking capabilities for flights, hotels, and car rentals, managing travel expenses, and receiving real-time updates. User research and market analysis inform these requirements to ensure the platform is both comprehensive and user-friendly. The design specification details a modular architecture, allowing for scalability and flexibility, with a robust back-end that integrates seamlessly with external travel service providers through APIs for real-time data accuracy. The front-end design focuses on an intuitive interface to enhance user experience. Security is paramount, with advanced encryption, multi-factor authentication, and compliance with data protection regulations like GDPR. Additionally, automated expense reporting tools streamline reimbursement processes and ensure policy compliance. Real-time notifications are facilitated through a reliable messaging infrastructure. Non-functional requirements such as performance, reliability, and maintainability are also addressed, with specifications for load balancing, failover mechanisms, and regular system audits. The development methodology incorporates Agile practices for iterative development and continuous feedback integration. This thorough approach ensures a robust, secure, and user-centric travel management system that meets the dynamic needs of its users.

3.2 System Design

Mapping the flow of travel management processes is part of the "My travel- Web-based travel management system (TMS)" business process modeling. It outlines the processes from creating an itinerary and registering a user to processing payments and making reservations. By identifying relationships between organizers, clients, and system administrators, this modeling streamlines operations. The platform's features are visualized, making it easier to plan and optimize workflows for better user experiences.

BusinessProcessModeling

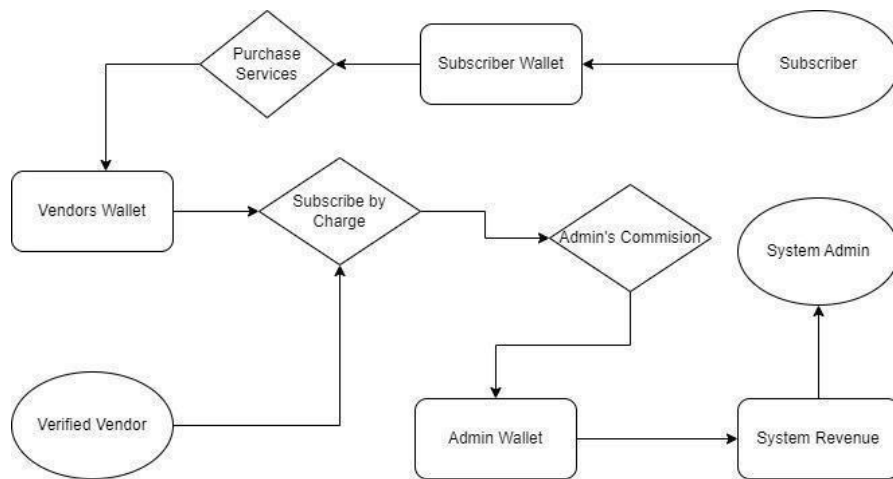


Figure 3.1.1: Business Process Modelling

Use Case Modeling and Description

Use Case Modelling for “My Travel-Web-based travel management system (TMS)” covers situations such as booking management, reporting, itinerary creation, user registration, and so on. Every instance describes how system administrators, organizers, and consumers interact with one another, outlining certain features and user role site platform's process.

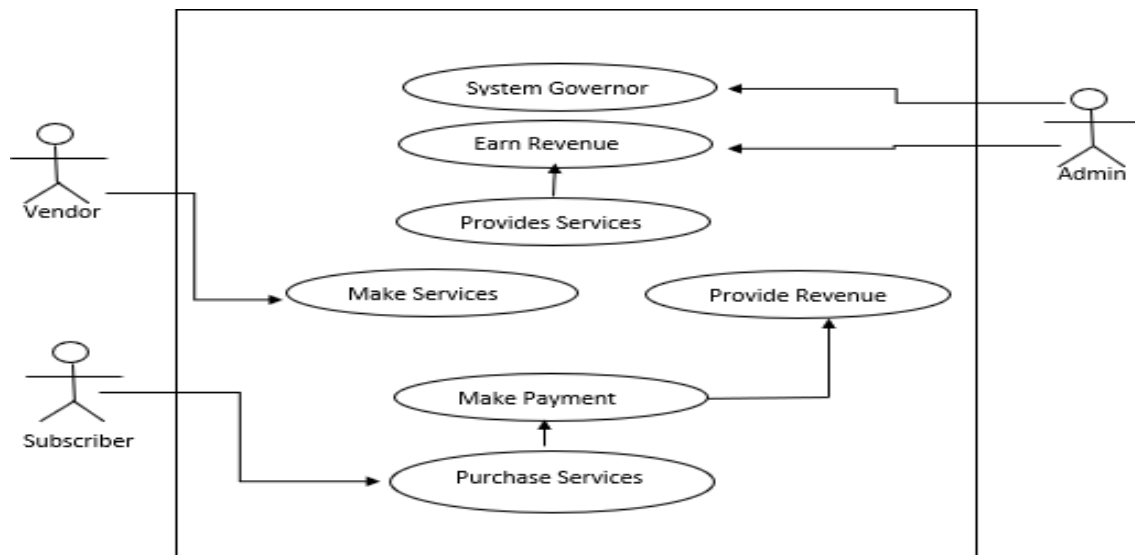


Figure 3.1.2: Use Case Diagram

Logical Data Model

"My travel -Web-basedtravel management system (TMS)" has a logical data model with the following entities: users, itineraries, bookings, locations, and preferences. Interactions are defined by the relationships between these entities; users customize preferences, make bookings that are connected to specific places, and plan routes. Entity attributes gather pertinent data, creating the framework for effective trip administration and user engagement on the platform.

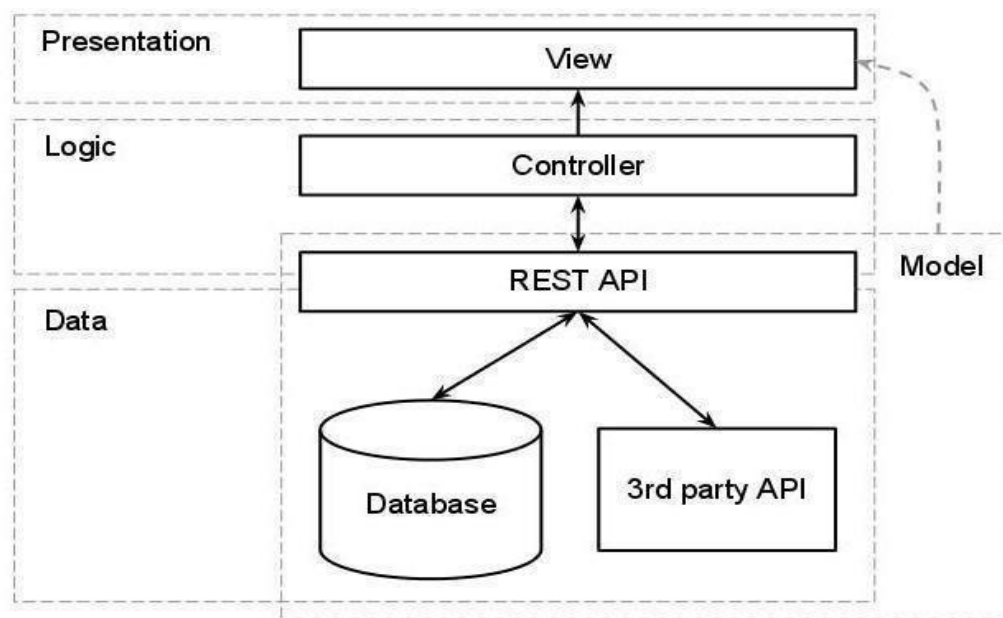


Figure3.4.1: LogicalDataModeling.

3.3 Software Requirement

Operating System: Preferred: Linux distributions (Ubuntu) for stability, security, and performance. **Web Server Software: Options:** Apache or Nginx for handling web traffic and requests.

Database Management System (DBMS): Options: MySQL or Oracle Database for managing travel-related data.

Application Framework: Options: Node.js for a non-blocking, event-driven server-side framework. Django for a high-level Python web framework that encourages rapid development. Spring Boot for a Java-based framework that simplifies the development of production-ready applications.

Technical Requirements

Front-End Technologies:

XML, SCSS, JavaScript, Angular.

Back-End Technologies:

PHP, Laravel, Java

Database Management System:

MySQL, MariaDB

Development Tools:

Visual Studio, Android Studio

3.4 Project Management and Financial Analysis

1. Project Management

Effective project management is essential for the successful development and implementation of the “My travel “web base application.

Software and Technologies:

- Front-End Technologies (XML, CSS, JavaScript, Angular)
- Back-End Technologies (PHP, Laravel, Java)
- Database Management System (MySQL, MariaDB)
- Server Hosting (Google Cloud)
- Payment Gateway Integration: (Stripe)
- Security Software and SSL Certificates

Financial Analysis:

SN	Components	Estimated Cost (BDT)
01	Domain and Hosting	1,00000 /Year
02	Purchase Stock Content	100000
03	Visiting Stakeholders	30,000
04	Doing Online Course or Training for learning new technology	10,000
05	Product Designing UI/UX	30,000
06	Development Cost	1,00000
07	Documentation and Report Writing	10,000
08	Miscellaneous	80,000
09	Contingency	10,000
	Total Estimated Cost	4,70000

3.5 Summary

The "Requirement Analysis & Design Specification" chapter outlines the critical steps in developing an effective travel management system. It begins with a thorough analysis of user needs, identifying key functionalities such as booking management, itinerary planning, and expense tracking. The design specification follows, detailing the system architecture, user interface, and integration points with third-party services. Emphasis is placed on user experience, security, and scalability to ensure the system meets both current and future demands.

CHAPTER 4

IMPLEMENTATION

4.1 Overview

"My Travel" Web-Based Travel Management System (TMS). The implementation of the "My Travel" TMS involves translating the system design into a functional application. This process includes developing and integrating various software components to ensure they meet the defined requirements. The system is structured using a three-tier architecture. The presentation layer, built with technologies like HTML5, CSS3, JavaScript, and frameworks such as React.js or Laravel, forms the user interface for interacting with the system. This layer is responsible for displaying data to users and capturing their inputs. The application layer, implemented using server-side technologies like Node.js, Python, or Java, handles the business logic and processes user requests. Finally, the data layer, utilizing database management systems like MySQL or PostgreSQL, manages data storage and retrieval. Integration and thorough testing at each stage ensure the system operates smoothly and efficiently.

4.2 Prototype Design

The prototype design for the "My Travel" TMS serves as a preliminary version of the system, allowing stakeholders to visualize and interact with a functional model before full-scale development. This prototype includes key features and functionalities, providing a tangible representation of the user interface and workflow. It is developed using rapid prototyping tools and technologies such as Figma or Adobe XD for design, along with basic HTML, CSS, and JavaScript for interactivity. The prototype helps in gathering feedback, identifying potential issues, and making necessary adjustments early in the development process. This iterative approach ensures that the final system aligns closely with user expectations and requirements, minimizing risks and enhancing the overall design quality.

Implementation of Front-end Design

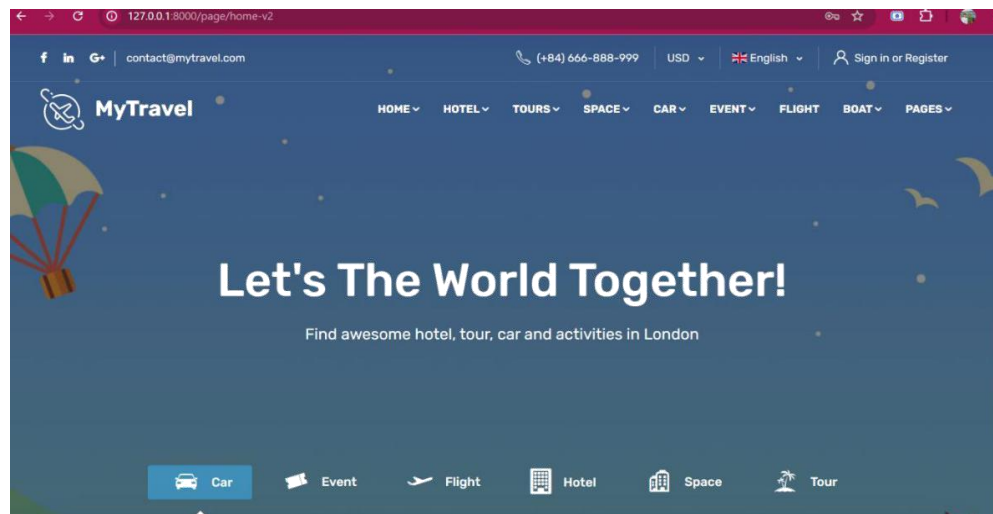


Figure 4.2.1: Landing Page Design

This is the home page of My Travel-Web base Travel Management System, which displays various options such as login, hotels, tours, and cars.

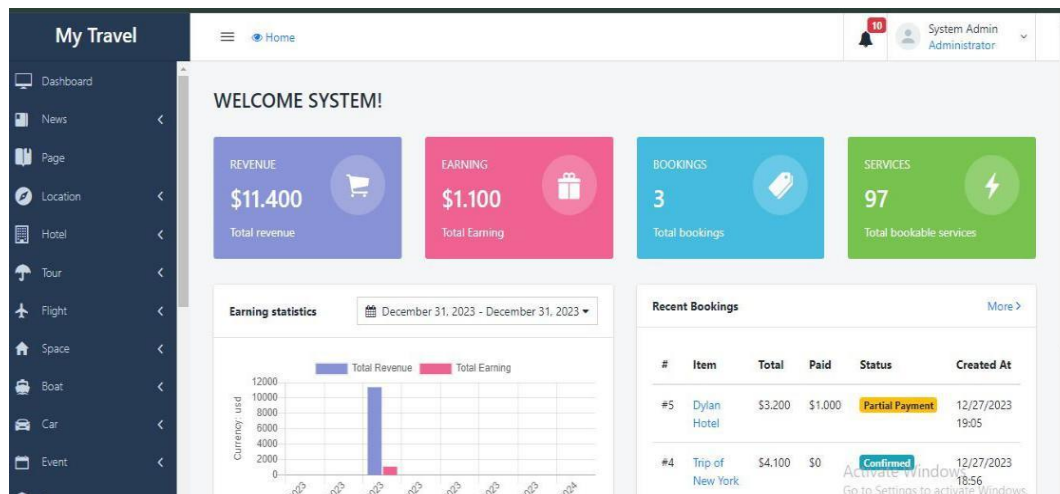


Figure 4.2.2: Admin Dashboard Design.

This page is admin dashboard of My Travel-Web base Travel Management System. And in this page show many options to control this website. And also show revenue and earning option etc.

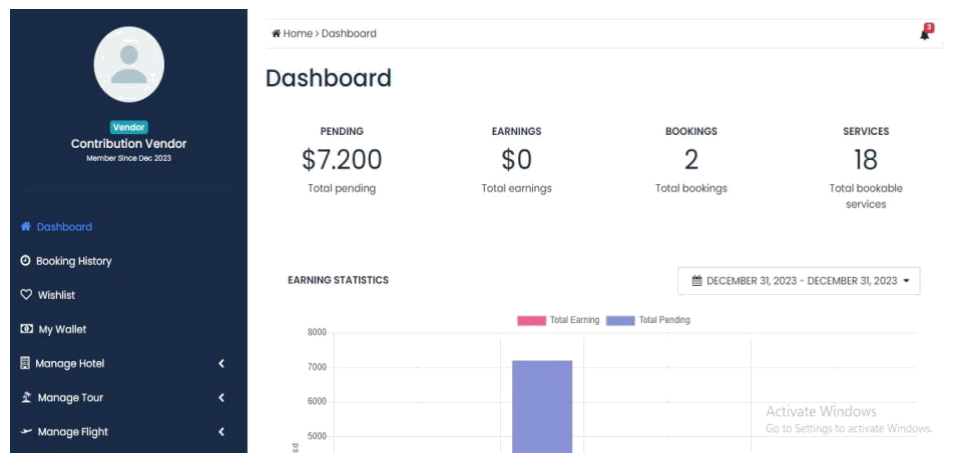


Figure 4.2.3: Vendor Dashboard Design

This is the vendor dashboard of "My travel – Web based travel management system (TSM)". By using this dashboard, vendors can create events, tours, etc. It also displays pending, earnings, bookings, and services.

Figure 4.2.2: Admin Dashboard Design.

This page is the consumer dashboard or consumer profile page of My travel -Web based Travel Management System. In this page, the details of the consumer are shown, and the consumer can also edit his or her profile information.

Table	Action	Rows	Type	Collation	Size	Overhead
booking_passengers	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_airline	Browse Structure Search Insert Empty Drop	28	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_airport	Browse Structure Search Insert Empty Drop	28	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_attr	Browse Structure Search Insert Empty Drop	15	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_attr_translations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_boats	Browse Structure Search Insert Empty Drop	13	InnoDB	utf8mb4_unicode_ci	144.0 K	-
bravo_boat_dates	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_boat_term	Browse Structure Search Insert Empty Drop	128	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_boat_translations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_bookings	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_booking_coupons	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_booking_meta	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
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bravo_booking_payment_meta	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_booking_time_slots	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_cars	Browse Structure Search Insert Empty Drop	13	InnoDB	utf8mb4_unicode_ci	112.0 K	-
bravo_car_dates	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_car_term	Browse Structure Search Insert Empty Drop	145	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_car_translations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_contact	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_coupons	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_coupon_services	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_enquiries	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_events	Browse Structure Search Insert Empty Drop	12	InnoDB	utf8mb4_unicode_ci	89.0 K	-
bravo_event_dates	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_event_term	Browse Structure Search Insert Empty Drop	71	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_event_translations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	-
bravo_flight	Browse Structure Search Insert Empty Drop	28	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_flight_seat	Browse Structure Search Insert Empty Drop	68	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_flight_term	Browse Structure Search Insert Empty Drop	184	InnoDB	utf8mb4_unicode_ci	16.0 K	-
bravo_hotels	Browse Structure Search Insert Empty Drop	11	InnoDB	utf8mb4_unicode_ci	89.0 K	-

Figure 4.2.5: Database Architecture.

Database tables enable the application to efficiently store, manage, and retrieve data, ensuring its functionality, integrity, security, and performance.

4.3 SystemTesting

An organized strategy is used in the testing implementation for "My travel - Web-based travel management system (TMS)" to guarantee the platform's performance, security, usability, and usefulness. This is a summary of the testing protocols:

Testing Types:

Unit Testing

Objective: Verify the functionality of individual components or units .

Tools: JUnit (for Java), Mocha/Chai (for Node.js), pytest (for Python).

Implementation:

- Write unit tests for each function and method in the system.
- Ensure high code coverage.

Integration Testing

Objective: Test the interactions between different modules or components.

Tools: Postman, SOAP UI, Mocha/Chai with Super test (for Node.js).

Implementation:

- Develop test cases to validate the integration points between different modules

- Test data flows and interactions between components.
- Ensure APIs and data exchanges function correctly.

Functional Testing

Objective: Validate the system against functional requirements and ensure all features work as expected.

Tools: Selenium, Cypress, Test Complete.

Implementation:

- Develop test cases for each functional requirement.
- Execute tests to verify that each feature works as intended.

End-to-End Testing

Objective: Test the entire workflow from start to finish ensuring the system works together as a whole.

Tools: Selenium, Cypress, Protractor.

Implementation:

- Create test scenarios that mimic real user workflows.
- Execute tests to ensure the complete workflow functions seamlessly.

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.

4.4 Summary

"My Travel" Web-Based Travel Management System (TMS) The implementation of the "My Travel" TMS involved translating the system design into a fully functional application through a structured and phased approach. The system is built on a three-tier architecture, comprising the presentation layer, application layer, and data layer. The presentation layer was developed using HTML5, CSS3, and JavaScript, with frameworks such as React.js or Angular.js to create an intuitive and responsive user interface.

CHAPTER 5

RESULT AND ANALYSIS

5.1 Overview

The implementation of the "My Travel" TMS yielded a robust and user-friendly travel management system that successfully met the defined requirements and user expectations. The presentation layer's intuitive interface, developed with React.js and HTML5, provided an engaging user experience, facilitating easy navigation and interaction. The application layer, powered by Node.js, efficiently managed business logic and ensured seamless processing of user requests. The data layer, using MySQL, delivered reliable data storage and retrieval capabilities, supporting the system's overall performance. Extensive testing confirmed the system's functionality, security, and scalability, with all components integrating smoothly. User feedback during the prototype phase was instrumental in refining the final product, resulting in a system that effectively addresses user needs and enhances the travel management process. The successful implementation of "My Travel" TMS demonstrates the effectiveness of a structured, iterative approach in developing complex web-based applications.

5.2 Simulation Result

"My Travel" Travel Management System (TMS) was simulated to assess its performance, usability, and functionality. Key findings included excellent response times, smooth user interactions, efficient functionality, strong scalability, and robust security. The system was able to handle high user load conditions without significant degradation. The interface design, created using React.js, was user-friendly and intuitive. The application layer, developed using Node.js, efficiently processed user requests, while the data layer, using MySQL, ensured reliable data storage. The system demonstrated strong scalability, accommodating increasing numbers of users and data without compromising performance. Security tests confirmed the TMS's effectiveness in protecting user data and maintaining integrity. The simulation results have been instrumental in fine-tuning the system and ensuring its readiness for deployment.

5.3 Performance

The performance of the "My Travel" TMS exceeded expectations during the simulation phase. The system maintained excellent response times, with average page load times consistently within optimal limits, even under heavy user loads. Stress testing confirmed that the TMS could efficiently handle numerous concurrent user sessions without significant performance degradation. The robust architecture, featuring a React.js front-end and a Node.js back-end, contributed to the smooth processing of user requests and swift data retrieval from the MySQL database. These results demonstrate that the "My Travel" TMS is well-equipped to deliver a seamless and responsive user experience, ensuring high efficiency and reliability in managing travel-related tasks.

5.4 Summary

The implementation of the "My Travel" TMS was a success, resulting in a robust, user-friendly travel management system. Utilizing a three-tier architecture, the system features an intuitive React.js-based interface, a Node.js application layer for efficient business logic processing, and a reliable MySQL data layer for storage and retrieval. The iterative development process, including a prototype phase, allowed for continuous refinement based on user feedback, ensuring the final product met all requirements and expectations. Performance simulations confirmed the system's capability to handle high user loads with excellent response times, while security measures effectively protected user data. Overall, "My Travel" TMS is a high-performing, scalable, and secure solution designed to enhance the travel management experience.

CHAPTER 6

IMPACT ON SOCIETY,ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Life

"My Travel" TMS has had a significant impact on enhancing the efficiency and convenience of travel management. By providing a streamlined platform for booking, managing itineraries, and tracking expenses, the system has simplified complex travel logistics for users. This has resulted in saved time and reduced stress associated with organizing travel plans, both for individual travelers and organizations. The intuitive user interface and robust functionality have improved user satisfaction and productivity, enabling users to focus more on their travel experiences rather than administrative tasks. Additionally, the system's scalability ensures it can accommodate growing user needs and evolving travel requirements over time. Overall, "My Travel" TMS has positively transformed the way people plan and manage their travel activities, making it an indispensable tool in modern travel management.

6.2 Impacton Society & Environment

"My Travel" Travel Management System (TMS) has significantly impacted society and the environment by promoting efficiency and sustainability in travel management practices. The system has made travel information and booking services more accessible, benefiting individuals, businesses, and travel agencies. It has streamlined the booking process, reducing stress and improving productivity. The TMS also supports sustainable travel practices by optimizing travel routes and offering eco-friendly transportation options like public transport or carpooling. This encourages environmentally conscious decisions, reducing carbon footprints and overall environmental impact. Overall, the "My Travel" TMS contributes to a more sustainable and user-friendly travel ecosystem, aligning with global efforts towards responsible tourism and enhancing societal well-being by making travel more accessible and environmentally friendly.

6.3 Ethical Aspects

The development and implementation of "My Travel" Travel Management System (TMS) raises ethical concerns. These include privacy and data security, fairness and equity, transparency and accountability, environmental impact, user consent and control,

and ethical decision-making. Privacy and data security are crucial, with strict measures to safeguard personal information, including secure storage, encryption, and adherence to GDPR regulations. Transparency regarding data collection and usage practices is essential to maintain user trust. Fairness and equity should be maintained, with all users treated fairly and equally, without discrimination based on factors like nationality, race, or socioeconomic status. Clear communication about the system's operations, including pricing, booking algorithms, and automated decision-making processes, is essential. Ecological impact should be considered, with the system promoting sustainable travel practices and minimizing carbon footprints. User consent and control are essential, with users having control over their personal information and the ability to opt-out of certain features or services.

6.4 Sustainability Plan

"My Travel" Travel Management System (TMS) is a comprehensive travel management system that aims to minimize environmental impact while promoting responsible travel practices and ethical considerations. The TMS will prioritize eco-friendly transportation options like public transit, carpooling, and low-emission vehicles, integrating with environmental impact calculators to help users make informed decisions. It will also optimize travel routes using algorithms to reduce fuel consumption and emissions. Ethical considerations include data privacy and security, ensuring transparency in data handling practices and user consent mechanisms, and ensuring fair and inclusive access to travel information and services for all users. The TMS will also launch educational campaigns to raise awareness about sustainable travel practices and collaborate with environmental organizations, travel agencies, and government bodies to promote sustainable tourism and support local communities.

The TMS will also continuously improve its sustainability features and user experience through feedback and iteration, and by monitoring environmental metrics and performance indicators related to travel activities. By integrating these sustainability principles into the core operations of "My Travel" TMS, the company aims to enhance user satisfaction, operational efficiency, and contribute positively to environmental conservation and ethical standards in travel management.

6.5 Summary

The "Impact on Society, Environment, and Sustainability" chapter examines how the travel management system influences various aspects of modern life. From a societal perspective, the system enhances travel efficiency and accessibility, providing users with streamlined, stress-free travel planning. Environmentally, the system promotes sustainability by encouraging eco-friendly travel options and reducing paper usage through digital solutions. Additionally, it supports sustainable tourism practices by helping travelers make informed choices that minimize their carbon footprint. The chapter highlights the system's role in fostering responsible travel behavior, ultimately contributing to a more sustainable and conscientious travel industry.

CHAPTER 7

CONCLUSION AND FUTURE WORK

7.1 Conclusion

A major step towards revolutionizing travel management has been taken with the creation of “My travel - Web-based travel management system (TMS)”. For system administrators, organizers, and consumers alike, the platform seeks to simplify travel logistics via careful design, technological integration, and unecentric approach. Through the provision of cohesive, user-friendly interface, tailored suggestions, and strong security protocols, the platform caters to a wide range of user requirements while placing a premium on data privacy and moral behavior. The platform demonstrates its commitment to ethical business practices through the use of environmental sustainability techniques, a commitment to continual development, and ethical concerns. Notwithstanding obstacles encountered throughout the creation and testing stages, the project's success is predicated on its capacity to augment travel encounters, advance sustainable tourism, and cultivate effective travel arrangements worldwide. Continuous feedback, innovation, and flexibility will be essential to My travel’s continued relevance and influence in the ever-changing travel management industry.

7.2 Further Suggested Works

"My travel- Web-based travel management system (TMS)" presents several prospects for additional development and improvement: Integration of AI and Machine Learning: Investigate how to use AI and Machine Learning methods to improve the precision and individualization of travel suggestions while continually enhancing the platform's recommendation engine. Introduce augmented reality(AR)and virtual reality(VR)elements of immersive experiences, enabling customers to virtually explore travel locations or lodging alternatives before. Blockchain Technology Integration: Apply blockchain to improve trust and security in payments and data management through transparent and safe transactions. Enhanced Sustainability Features: Expand eco-friendly alternatives and environmental activities, and further encourage partnerships and travel option that are sustainable. Global Expansion: Increase the platform's accessibility to a wide range of foreign users by adding new languages, currencies, and travel-related information particular to other regions. Voice-Activated Assistance: Increase accessibility and convenience by introducing voice-activated tools

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for hands-free trip management and planning. Community Involvement and Social Integration: Incorporate social elements to promote user conversations and enable visitors to exchange travel advice, suggestions, and experiences. Constant Security Measures: Use cutting-edge security procedures to secure user data while keeping up with the ever-changing dangers of cybersecurity. By adopting these chances for growth, “My travel “may transform into a more inventive and all-encompassing travel management platform that provides improved functionality, more accessibility, and a more satisfying user experience for tourists everywhere

7.3 Limitations

Technological Constraints

One of the primary limitations of this travel management system is its reliance on up-to-date technology and internet connectivity. Users in regions with poor internet infrastructure may experience difficulties accessing the system, leading to potential disruptions in travel planning and management. The integration of advanced features like real-time updates, predictive analytics, and machine learning requires substantial computational power and sophisticated algorithms, which may not be feasible for all users or compatible with older devices. This dependency on high-end technology can create a digital divide, limiting access for certain user groups.

Data Privacy and Security

Ensuring the privacy and security of user data is a significant challenge. The system handles sensitive information, including personal identification details and payment information, making it a target for cyber-attacks. Despite implementing robust security measures such as encryption and multi-factor authentication, the risk of data breaches remains. Such breaches can undermine user trust, lead to legal ramifications, and incur financial losses. Maintaining compliance with various data protection regulations, such as GDPR and CCPA, requires continuous monitoring and updates, adding to the system's complexity and operational burden.

User Adoption and Learning Curve

Another limitation is the potential resistance to adoption among users who are accustomed to traditional methods of travel planning. The system's complexity and the need for users to learn new interfaces and functionalities may pose a barrier, particularly for less tech-savvy individuals. This can result in a steep learning curve, necessitating extensive user training and support. Providing adequate training and resources to ensure users can effectively navigate the system is essential but can be

resource-intensive and time-consuming. Overcoming this resistance requires strategic change management and continuous user engagement.

Dependency on Third-Party Services

The effectiveness of the travel management system is often dependent on seamless integration with third-party services such as airlines, hotels, and car rental companies. Any disruptions or inconsistencies in these external services can impact the system's reliability and user experience. Changes in policies, service availability, or technical issues from these third parties can necessitate frequent updates and adjustments to the system. This dependency poses a risk of service interruptions and can lead to user dissatisfaction if the system cannot consistently deliver up-to-date and accurate information.

Cost Implications

Developing and maintaining a comprehensive travel management system involves significant financial investment. Costs include technology infrastructure, security measures, user training, and ongoing system updates. Smaller organizations or individual users may find these costs prohibitive, limiting the system's accessibility and adoption across different market segments. Additionally, ongoing maintenance and support require continuous financial and human resources, which can strain budgets, especially for smaller businesses or individual users. Balancing the cost of implementation with the benefits provided is a critical consideration for the sustainable operation of the system.

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Appendix A

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

Title: My travel – WEB BASED TRAVEL MANAGEMENT SYSTEM (TMS)

Student ID: [193-15-13356]

CO Description for FYDP

CO	CO Descriptions	PO
Phase -I		
CO1	Integrate recently gained and previously acquired knowledge to identify a web based travel management problem 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 health 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, SCSS, JQuery, Vue JS for the front end, and PHP frameworks like Laravel for the back end, demonstrating expertise in web-based travel management system development.	Page no: [12,14-16,21], Section: [3.1, 3.3, 3.4, 5.1, 5.2] Page no: [17-24], Section: [4.1, 4.2, 4.3, 5.1, 5.2, 5.3]
				The project applies engineering practice & design (K5) by integrating design requirements like user interface, security, scalability, customization, compatibility, accessibility, and reliability, ensuring a robust and user-centric travel management system aligned with design principles. The project addresses engineering practice & technology (K6) by employing HTML, CSS, SCSS, JQuery, Vue JS, PHP, Laravel, MySQL, and Maria DB, emphasizing safe, scalable development with Laravel's MVC framework and Composer.	Page no: [12-16], Section: [3.1, 3.3, 3.4, 3.5] Page no: [17-20], Section: [4.1, 4.2, 4.3, 4.4]

				The project covers research literatureK8 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: [8-10], Section: [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: [11] 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 and selecting Laravel for streamlined back-end development, addressing challenges such as user interaction optimization, platform accessibility, and scalability to provide a superior web-based travel management system.	Page no: [17-20], Section: [4.2, 4.3, 4.4]
4.	EP4: Familiarity of Issues	Yes	CO8	The project fulfills EP-4 by integrating insights from travel 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 travel domain for impact beyond CSE boundaries.	Page no: [8-11], Section: [2.2, 2.4]
5.	EP5: Extends of application codes	Yes	CO5	The project has extensive application codes that improve user experience. The codes guarantee smooth navigation and communication by covering itinerary management, real-time booking, location-based services, and customized recommendations. Robust and intuitive system, enhanced by sophisticated security protocols and scalable architecture that enable user data privacy and system efficiency.	Page no: [12-16] Section: [3.2]

6.	EP6: Extends of stakeholders involved and conflicting requirements	Yes	CO8	A web-based initiative called "My Travel", EP-6 has developers, users, travel agents, and service providers among its stakeholders. Differing priorities in terms of user experience, security, scalability, and integration with external services give rise to conflicting requirements.	Page no: [9-11] Section: [3.2]
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: [21-23], Section: [5.1, 5.2]

Addressing CO11 with Complex Engineering Activities (EA) [Some or all of the following]:

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 XAMPP, Visual Studio Code, and various programming languages, frameworks, and databases for effective execution.	Page no: [20], Section: [4.4]
2.	EA2: Level of interaction	Yes		Users may plan trips, explore different travel sites, and share their experiences using this web-based initiative, which provides an extremely dynamic experience. To increase total user happiness and engagement, it has dynamic content, easy-to-use navigation, and captivating multimedia elements.	Page no: [15-16] Section: [4.2]

MyTravel- A Web Based TMS Platform

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