

ONLINE TRAINING SYSTEM

BY

Md. Sanjidul Islam Mazumder

ID No: 153-15-6654

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

Supervised by

Ms. Subhenur Latif

Assistant Professor

Department of CSE

Daffodil International University



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APPROVAL

This Project/internship titled “**Online Training System**”, submitted by Md. Sanjidul Islam Mazumder, ID No: 153-15-6654 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 28th January 2021.

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Dr. Touhid Bhuiyan
Professor and Head

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Chairman



Abdus Sattar
Assistant Professor

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Md. Jueal Mia
Senior Lecturer

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Dr. Dewan Md. Farid
Associate Professor

Department of Computer Science and Engineering
United International University

External Examiner

DECLARATION

I hereby declare that, this project has been done by me under the supervision of **Ms. Subhenur Latif, Assistant Professor, and Department of CSE** at Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

Supervised by:



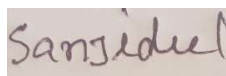
Ms. Subhenur Latif

Assistant Professor

Department of CSE

Daffodil International University

Submitted by:



Md. Sanjidul Islam Mazumder

Id Number: 153-15-6654

Department of CSE

Daffodil International University

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At first I would like to pay the gratefulness to Allah who is created me and is owner of all. I believe by the grace of almighty I could my project done.

Now I would like to convey my earnest gratitude to my project supervisor, named Ms. Subneur Latif, Assistant Professor, DIU, for her faithful and constant support to me. My supervisor's positive attitude always inspires me, I think the great thank always goes to her for her assistance to complete all works of my project. I believe she is my real inspiration to reach the end point goal towards my project. It has been a great pleasure and honor for me to have her as my supervisor.

Then I would like thank to all of Department of CSE of Daffodil International University.

ABSTRACT

This report is all about that I have developed a website based on Php and Laravel framework to demonstrate my idea on an online training system. By the grace of Internet everyone can get online learning support from an online training institute, this is the main theme of my project which is implemented in my development of my project. Users who might be a student can join to online events to know about courses and can pay for courses through this project. I have developed a system that contains online learning resource sections and an effective process to purchase course and join online events also.

I have used new technologies to develop my project, for controlling backend and database have used Php programming with mysql database. Registration records, log in records, course enrolment records and payment records all are stored in used database. For writing my Php code to access all data to users and admin, I have used a very powerful framework Laravel. I have used new features of Javascript also to control my front-end development. All over, Html, CSS and Bootstrap, Javascript and Ajax are used in development of this project.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

DecodeSoft defines an outstanding training institute in the age of updated technology. In recent years everyone is going towards technology hence the demand of training institute is raised rapidly, based on this idea DecodeSoft is developed that provides affordable way to give in-demand courses that enhances the necessary skills for both personal and business career. DecodeSoft is a web based application that includes of quality course contents, extended focus on practical sessions as well as interactive learning with experts. In this web application everyone can explore all the skill-based options for developing persons' successful career towards job market with accommodate supports. DecodeSoft online training institute concludes a wide range of topics covers as digital marketing, branding, design & creative, language and soft skills as well as to provide online live training system also.

1.2 Motivation

Nowadays there is a lot of organizations that provide such kind of supports but they won't make fulfil all person's demand. That's why DecodeSoft is organized vast opportunity to all for choosing in-demand courses in better easiest way. DecodSoft platform could bring out one the best solution to make satisfied by giving all kinds of supports along with their options in a simplest way. DecodeSoft can provides all services to registered persons in online in a convenient-way.

1.3 Objectives

DecodeSoft web application maintains virtual learning along with enrolled course to interested person who must have required the terms and policy. Main objectives are listed as some point in below:

- √ Land your dream job
- √ Get the promotion you want

- √ Start the business you wish
- √ Excel in your existing online business.
- √ Achieve your dream with new skills.

Vision:

To build a nation enriched with skills and motivation

Mission:

To spread the joy of learning new skills.

1.4 Expected Outcome

- Connect people together through online classes
- People get easier access to information
- Provide a new online technology for students
- Make a better way to teach without wasting more time
- Make easier to get perfect solution to all

1.5 Project Layout

Chapter 1: Introduction

This chapter I have included project introduction, motivation, objectives and expected outcome shortly.

Chapter 2: Background Study

This chapter holds introduction of background study shortly, research summary at a glance, brief discussion on challenges and project resource.

Chapter 3: Requirement Specifications

In this chapter I include flow-chart diagram of this project and entity relationship diagram. Requirements collection and analysis as well as design specifications are taken place in my report.

Chapter 4: Design Specification

This chapter contains all about my front-end and back-end design specifications.

Chapter 5: Implementation and Testing

I have implemented my planning to develop this project and this chapter contains about implementation and testing.

Chapter 6: Conclusion and Future Scopes

I have discussed my report conclusion in this chapter. Also, I have listed some future foals towards this project in this chapter.

CHAPTER 2

BACKGROUND STUDY

2.1 Introduction

DecodeSoft defines an online smart training centre in our country. DecodeSoft mainly contains some categories like IT courses, soft skills, language, and design & creative, branding training, Digital marketing and so on.

IT Courses: Everyone know that the advanced IT skills keep one ahead of others in this world of competition. Information Technology skills in website development and design, software development, programming languages etc. Some subcategories of IT courses are brought to discuss. DecodeSoft provides a complete web site design course which helps one to learn HTML, CSS, JavaScript and Bootstrap4 also. A comprehensive WordPress course is one of the most interesting and technical courses of DecodeSoft will help one to learn all about WordPress through online classes. DecodeSoft also provides important course of Mastering Web Development that covers HTML, JavaScript, PHP, Python etc. that will help learners to build an extraordinary websites.

Design & Creative: Nowadays creative people are looking in-demand both online and offline. Creative skills like graphic design, logo design and animation making lead to a better career. DecodeSoft offers graphic design courses and online classes by industry experts.

Digital Marketing: Due to increasing internet penetration, moving on digital platforms is both an opportunity and a need for any business owner small or large, national or international. That's why DecodeSoft includes digital marketing courses to unlock many doors of opportunity to learn. Advanced digital marketing, search engine optimization, social media marketing, Facebook marketing, content marketing course as well as content writing course are included in this section.

Branding Training: Every day in each country of the world countless newly jobs are popping up so it is clear that new entrepreneurs are much concerned about their branding of their company. DecodeSoft provides useful branding course that enriched the main pillar of their own business. For that DecodeSoft organizes online brand management training course by the experts and also contains employer branding training course and personal branding training course as well.

Soft Skills: While a hard skill should let one to do something, a soft skill enables his/her inner power to go beyond just doing this. Generally hard skills define writing, coding, designing etc. on the other hand soft skills refer the very much important topic like leadership, adaptability, communication and teamwork and also problem-solving. DecodeSoft can provide effective communication training course so that learners can achieve the right way to gain communication skills.

Language: Developing skills in a language will not only empower one to communicate better, but it will also gift his/her success in many spheres of life. DecodeSoft opens a platform to design comprehensive languages courses. Mainly language section holds two subcategories named Bengali speaking course for foreigners and a comprehensive English speaking course for all.

DecodeSoft contains some important featured courses for content marketing as well. Persons can go with complete registration and maintain policy for enrolling course purpose.

2.2 Research Summary

DecodeSoft helps people to gain their desired courses and training in online for that one must have to go to visit DecodeSoft and the people have to select desire course from website. They must have complete registration to enrol any course from here. Here exists the authentication part which will be confirmed by providing valid data to register. If they get authentication no then they will go the login page to get access but if they not registered then they have to complete registration and then login for getting access. When people give their information to register, all information are saved in database. After those certain process one can enrol for a course that DecodeSoft provides for that they must have to pay at payment section where they can chose a method and give input for payment detail. By the way one can get enrol for a course from DecodeSoft smart training website. Besides all people can join any events those are providing by DecodeSoft.

2.3 Challenges

At the beginning of my project I was much afraid on completing whole tasks perfectly and it was very hard to overcome for me. Then I have started from very basics of HTML, CSS, JavaScript and PHP. I have used Laravel framework for developing my project ready, learning coding into Laravel was much challenging for me. Design and code implementation tasks of whole project was more difficult for me at the beginning that's why I took help from online resources all related about this project. I faced several times big errors while coding and that error fixing was much painful and educative challenge ever for me I believe.

I have learned a lot about composer for doing complete my project website development and also relational database tasks was more complex for me since I thought more logic to implement database of my project. Another big challenge was meet eye-catching graphical user interface of this website.

2.4 Project Resource

- Php
- Laravel Framework
- Mysql Database
- Web Design
- Relational database

2.4.1 Php

Now in the world php becomes much familiar programming language for web development. In recent years almost 80 percent websites are developed by php language. My online training institute website is made under Laravel framework which is based on php language. For implementing I used to write raw coding, raw coding refers basic coding in programming language. I use html, css, javascript which all are combined with php in laravel framework.

2.4.2 Laravel Framework

Laravel is PHP framework for web artisans, in order to install laravel and for dependency I use composer that can manage all dependencies for my project in laravel framework. Laravel represents MVC framework, MVC stands for “Model, View and Controller” that discloses architecture developers during developing applications. MVC can separate logics from the rest of the user interface and uses three common parts named model, view and the controller; where the model can manage basic attributes and data of the system, view use to provide the user interface objects effectively as well as controller use to receive user input data, it can make calls to model objects and the view to represent perfect actions.

2.4.3 MySQL Database

A powerful database management system called MySQL is used for my project. Nowadays almost all website developer uses this database management system for development. MySQL database management system represents very fast execution in windows, macs, and Linux operating systems. MySQL is open source and uses structures query language where SQL is used for adding, accessing and manipulating data into database. As I develop by Php in Laravel framework for that MySQL is much helpful for me.

2.4.4 Relational Database

Into the database the tables are connected to each other by how that is defined a relational database actually. In relational database it can be used for one to one, one to many, many to one and many to many connection between various entities. MySQL is a powerful part of relational database that’s why I prefer for developing my project.

2.4.5 Website Design

I was very concerned about designing my project at the beginning for that I was decided to start from scratch and then I started to writing code. I have used Visual Code studio as my code editor, I started with HTML, CSS and JavaScript and Bootstrap4 framework. Bootstrap have become very popular for website design in recent years that’s why I use bootstarp4 for website

design. I am heavily enforce in developing media query also for doing responsive as well as I use JQuery plugin in my project for doing faster and reliable performance.

2.4.6 Testing

I have faced many troubles in testing of my project. Although this project is not a big project but it is very hard for me to control and test all things in this project. I have to check all buttons, dropdowns, check-boxes, filtering, login validation, registration validation, user validation, admin validation, user's payment validation and also all actions have to be checked more time to get perfection in this website. I have checked several times all the edit, view, delete options are working or not perfectly. I got much error and I fix them all by performing testing.

CHAPTER 3

REQUIREMENTS SPECIFICATION

3.1 Introduction

Previously I have discussed on background studies of my project and report. Now I am going to say all about my project requirements specifications in this chapter. A simple definition of software requirements specification says that it can hold overall to develop a software system and it can serve a roadmap for software projects. Also SRS holds functional and non-functional requirements of software systems and it can illustrate the interaction of people with the system upon completion. Clear requirement specifications can help for developing a right product, hence I focus on SRS for my web based smart training project. In this chapter I am enable to show how my software will do and how it will be expected to perform through requirements specifications.

3.2 Business Process Model: BPM

In short, BPM defines the GUI of systems workflows that basically disclose the potential improvements. BPM can be done through various GUI methods named flowchart, data-flow diagram etc. I have used business process model to improve the path of the system is done. I have gained more efficient and productive output by using BPM in my project.

For my project I have drawn a flowchart diagram as a business process model. In this flowchart diagram I have tried to show all the business strategy and working process of my project. Flowchart diagram defines whole concept of my project is inserted below in this paper.

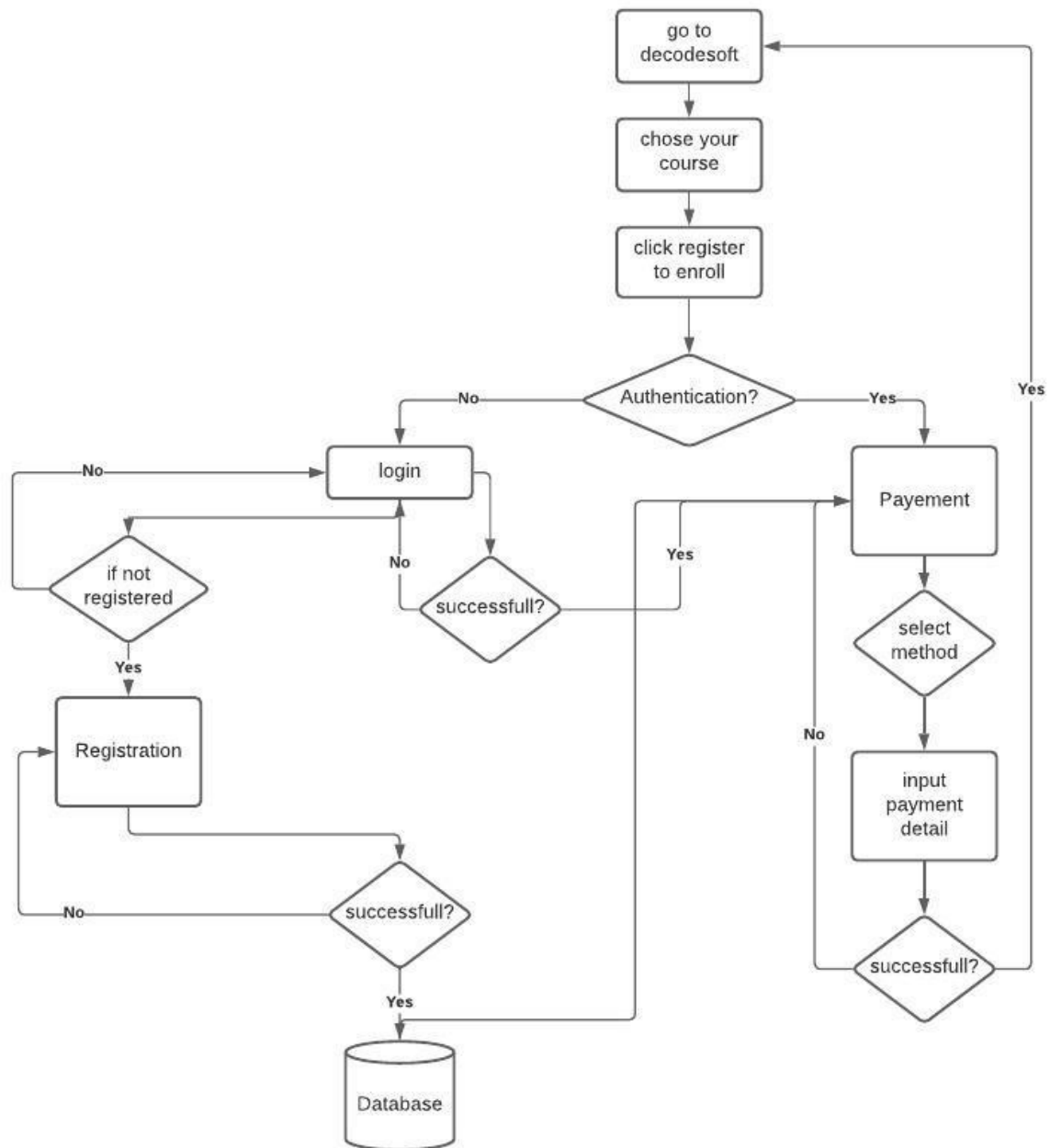


Figure 3.2: Flowchart diagram of the system

3.3 Requirements Collection and Analysis

Requirements collection and analysis is very common basic condition for developing a software system. Familiarly this collection and analysis part holds functional and non-functional requirements for project development.

Functional Requirements:

In my project there exists many functional requirements for end-users and admin also. In my project admin has to do signup and login. Admin can add courses, edit courses, update courses, as well as can delete any course. They mainly can handle learner registration and payment status active or inactive. I think all these functionalities define the functional requirements of my project almost.

Non-functional requirements:

To gain more user satisfaction based on their needs I had to meet non-functional requirements for my project. I have to maintain usability requirement, serviceability requirement, manageability requirement, recoverability requirement, security requirement, and reliability requirement also.

3.4 Entity Relationship Diagram and Description

Nowadays ERD is commonly used in software engineering for planning steps of the software system. In my project I have included an ERD that shows a visual representation for all entities within the system and relation between entities. I have used a relational database for handling my project smoothly and for that I designed ERD of the system. Relationship between different tables are shown in this diagram that shows all required features.

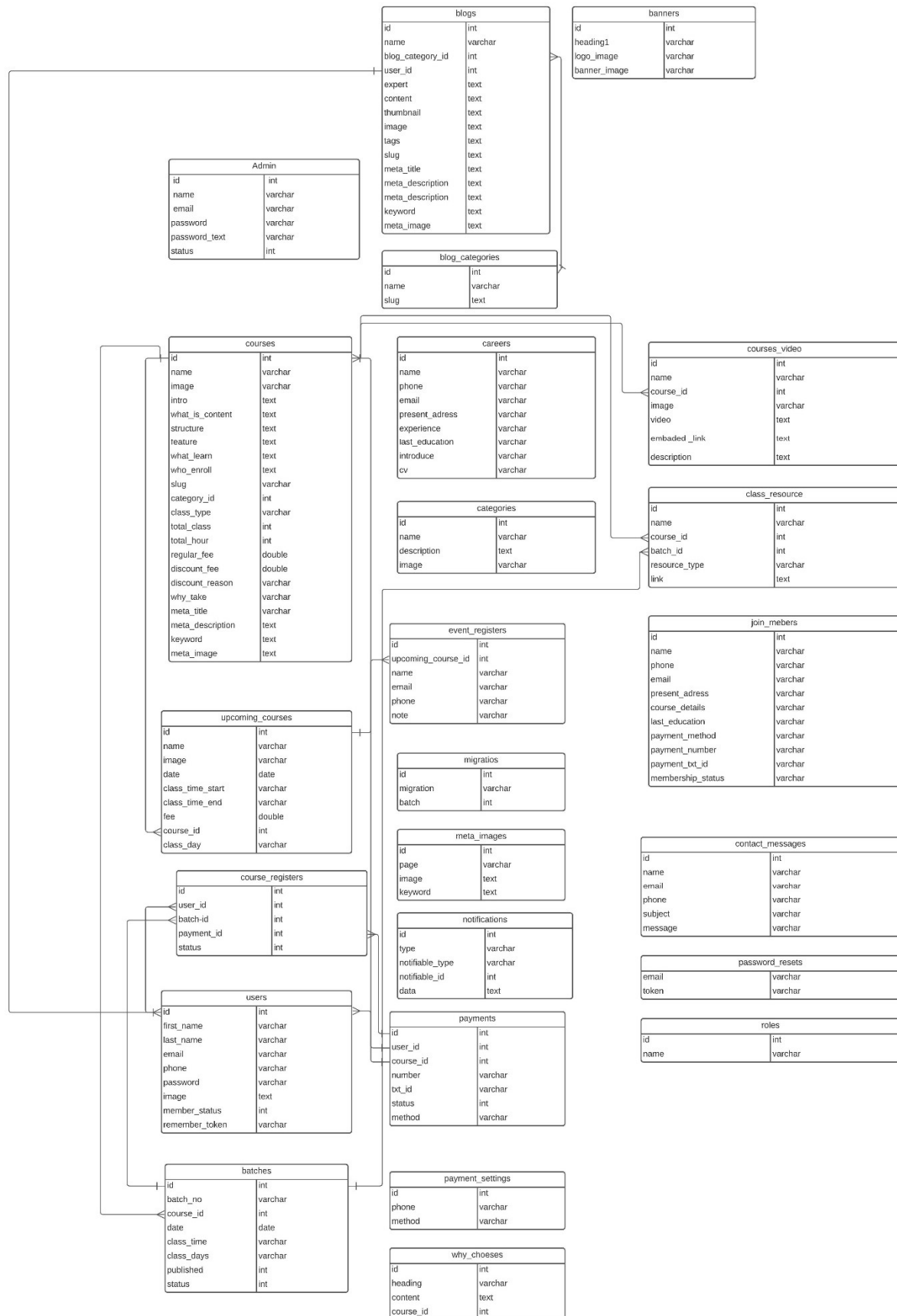


Figure 3.4: ER Diagram of the system

3.5 Design Requirements

Everyone will seek for a well-designed website because a well-designed website gives pleasure to them by capturing their attention while visiting the website. All over it can be said that a well-designed website reflects the behaviour of an organization. In this report I am going to talk about some required rule that are used in developing my project good at design perspective.

- Reducing user cognitive efforts

My website should not need detail explanation about how it work because it keeps the navigation structure visible and intuitive.

- Reducing waste time of user

In my project, sign up for a service of learners is kept very simple so that user time will not waste through this kind of problems.

- Focusing on user concentration

I will have attempted to focus on user's attention for providing this kind of service by this system.

- Showing websites features effectively

I will have to take steps to show effectively all features of my project. I have to do make sure the visibility of all header divisions of my project.

- Writing effective contents

I am very much concerned about writing on following broken down category policy and will try to write my website contents in simplest language.

- Reducing complicated tasks

As my website user can visit and access information that's why I will reduce complicated tasks for them at registration, payment and joining event and online class also.

- Focusing on effective communication

I will try to make a visual communication tool for effective communication between learners and course providers.

- User friendly Interface

In recent years user friendly interface of website has extra value in market place, so I will must do user friendly interface for my project.

- Using known formats

I will go to make a user friendly website that also has a familiar format to search any course and a very simplest way to pay for enrolling courses.

- Compatible in various browser and device

In all different types of browser my website will run perfectly. And in all devices my website will be shown responsive.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Introduction

In this chapter I am going to explain about design specification of my project. Design specification actually holds a document that represents my project goal, objective and methodology. Design Specifications for developing website is so monumental and for that I couldn't skip, also it helps me more to construct this project. I have gained a clear instruction on the target, pursuance and development of this project. It is possible to maintain quality and standard by getting reference of design specification. I have achieved a lot experience that helps me to be conscious about cost and deadline. Not only that design specifications support me as a part of soft landing system, next concentration management and the lifecycle plan.

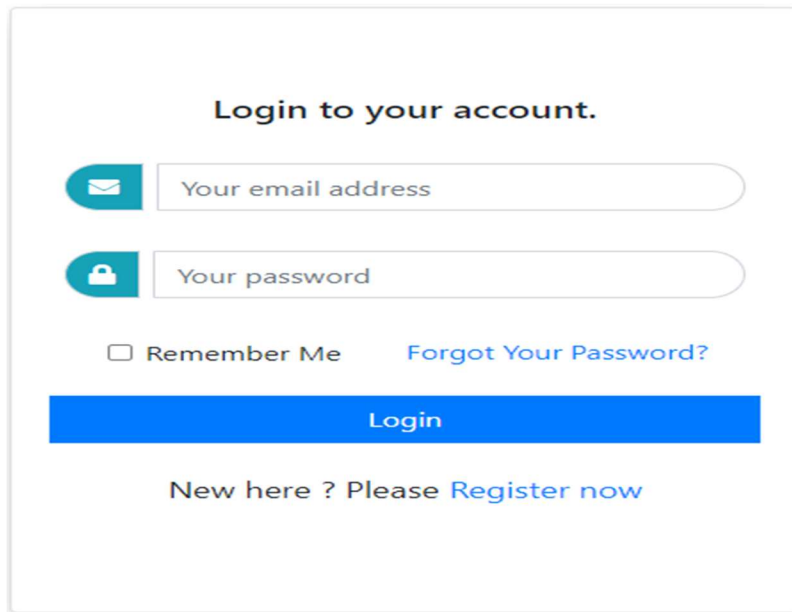
Now I am going to discuss about both front-end and back-end design of online smart training system as my project.

4.2 Front-end Design

For making user interface I have used HTML, CSS and presentational JAVASCRIPT to develop my front-end design perfectly. I have used HTML to build main structure of my website, CSS is used for creating layout design more eye catchy. I have introduced to use Bootstrap4 for getting responsiveness in browsing and also I have used media query in CSS to do more responsive in all device this project. I have used JavaScript in my project so that it can be worked in smother way and also user friendly.

4.2.1 User Login & Registration

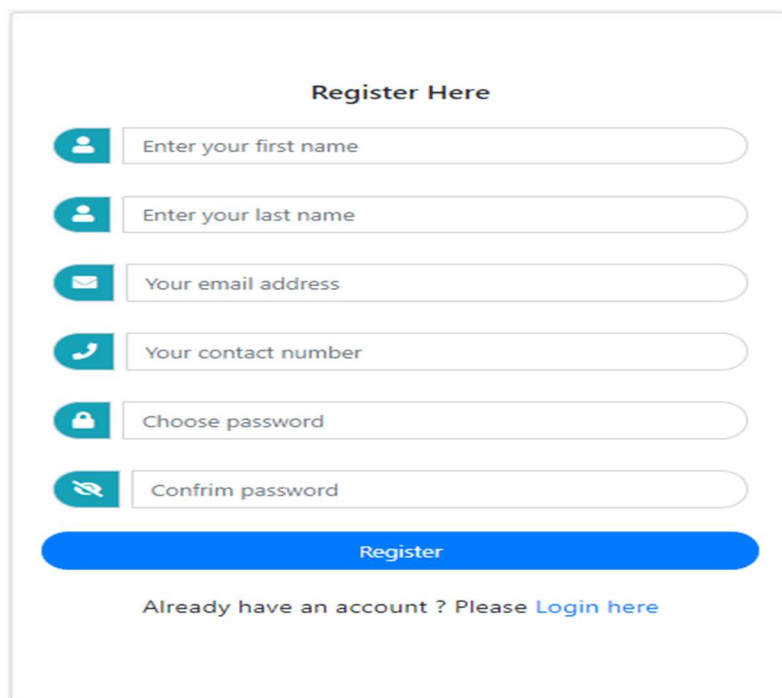
In user login page users have to provide email address and provide their password and then they push login button go to ahead with successful log in. If users might be forgotten their own password, in this case they can retrieve their password by using forgot password option. If anyone do not complete registration they can't log in successfully. In this situation they have taken help by using Register now button to go registration page.



The login page features a central heading "Login to your account." Below it are two input fields: "Your email address" with an envelope icon and "Your password" with a lock icon. A checkbox labeled "Remember Me" is positioned to the left of a blue link "Forgot Your Password?". A prominent blue "Login" button is centered below these elements. At the bottom, the text "New here ? Please [Register now](#)" is displayed.

Figure 4.2.1.1: User Login Page

In below registration page is inserted to show how users can complete their successful registration by providing first name, last name, email address, contact number and password as well as they must provide password in confirm password field to go to dashboard.



The registration page is titled "Register Here". It contains six input fields, each with a teal icon: "Enter your first name" (person icon), "Enter your last name" (person icon), "Your email address" (envelope icon), "Your contact number" (phone icon), "Choose password" (lock icon), and "Confrim password" (key icon). A blue "Register" button is located below the password fields. At the bottom, the text "Already have an account ? Please [Login here](#)" is shown.

Figure 4.2.1.2: User Registration Page

After successful registration in this website users can see their profile page as dashboard. They can edit their profile at this section. User dashboard simply contains some important features and they are total courses, running course, completed courses also. Account settings option and logout option are also exists in this dashboard for user.

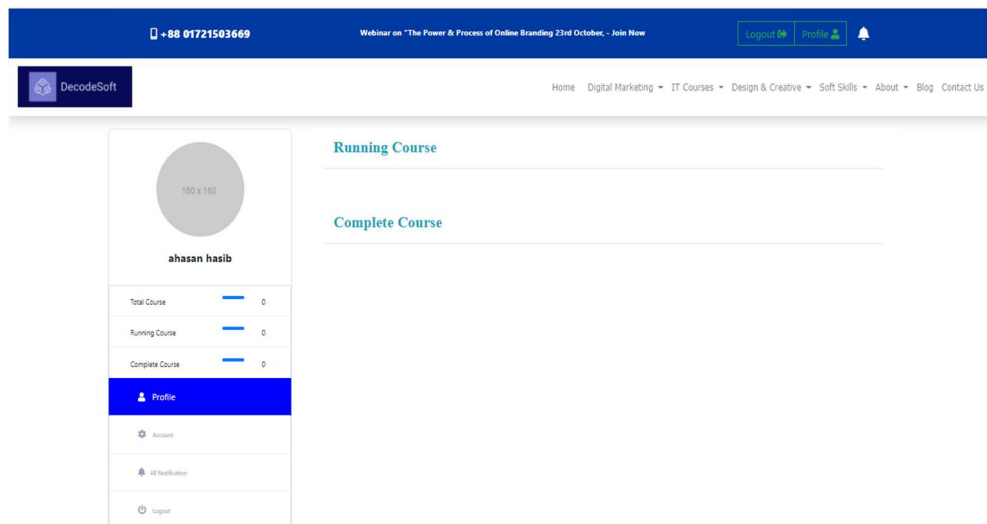


Figure 4.2.1.3: User Dashboard

Anyone can send message for filling their demand from this website. User should provide information into the required field and then by clicking send message button they can send a message to admin.

Figure 4.2.1.4: Contact page

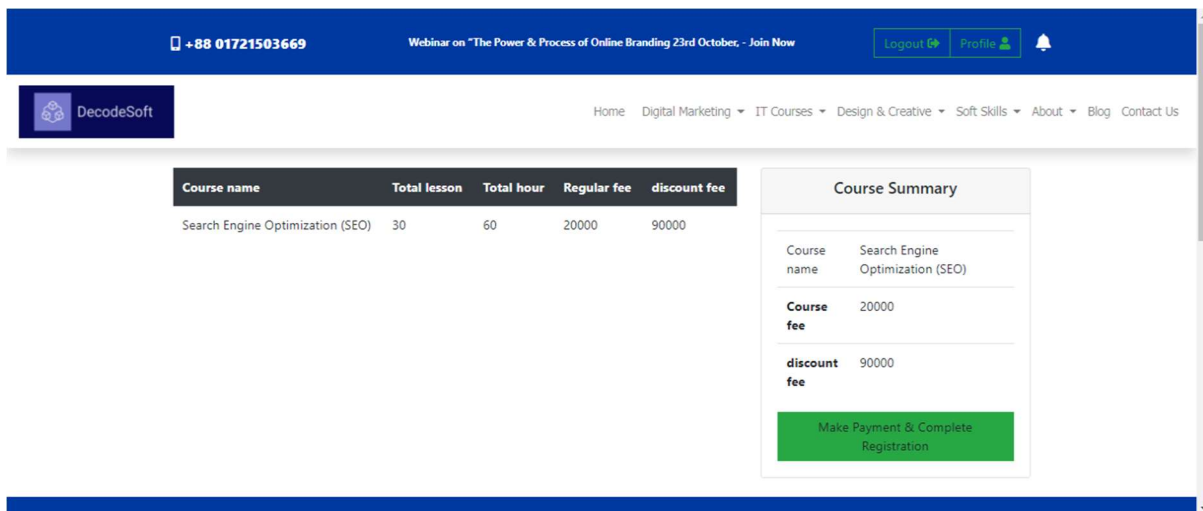


Figure 4.2.1.5: Make payment

Above image shows how a student see a course with important information like a course name with total lesson total hour regular fee and also discount fee. From here one can go to make payment for completing course registration. If anyone would like to go ahead he should click to make payment and complete registration link and then he have to pay for this course. In this payment section I have used a simple Bkash and Rocket verification method. In this way he get a pop up of select payment method and then selecting a method he have to follow some terms and rules for completion that are shown in images below.

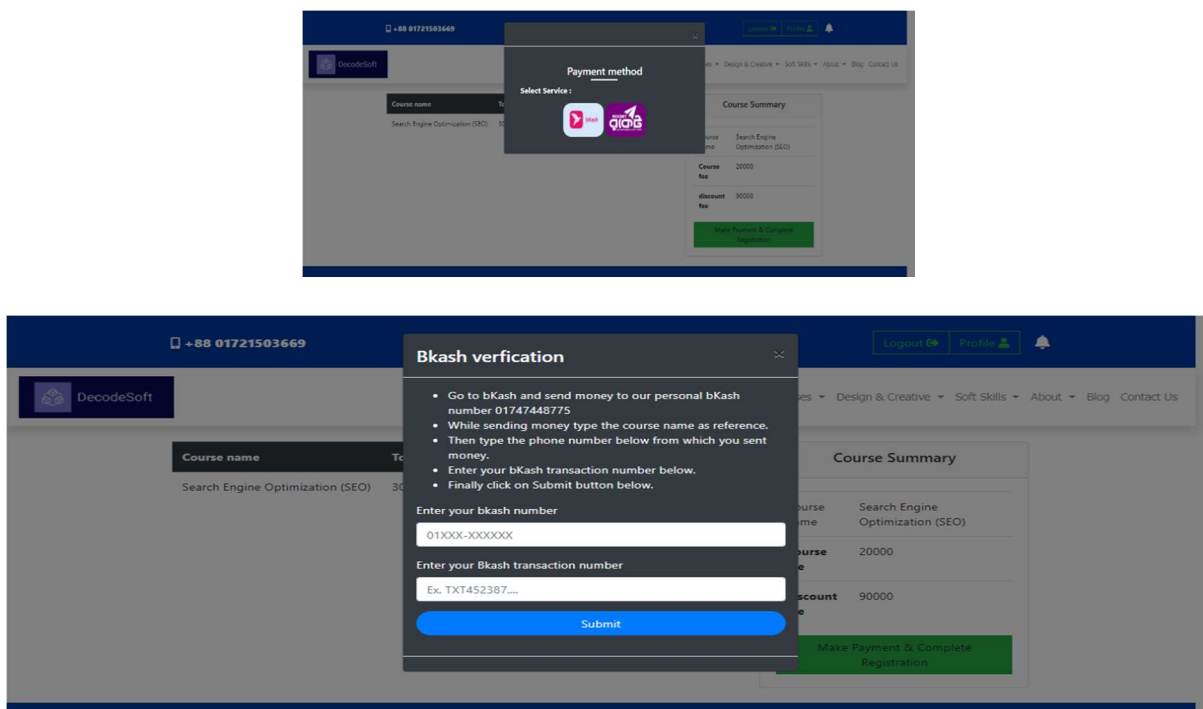


Figure 4.2.1.5: Submit payment

4.2.2 Admin Login & Admin Dashboard

To circulate all activities in this project admin is needed, an admin must have to register for handling this project. Admin must have complete their log in into log in page. I have designed very simply the admin login page for admin.

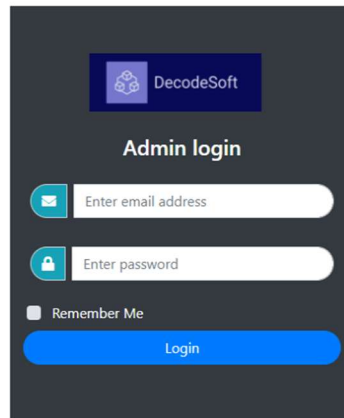


Figure 4.2.2.1: Admin Login Page

After successful login admin can access all features of this project. In this dashboard I have attached important features at the sidebar. Mainly admin are seeing this type of dynamic dashboard that holds total users, total courses and total categories, registered students, running registered students and completed registered students also.

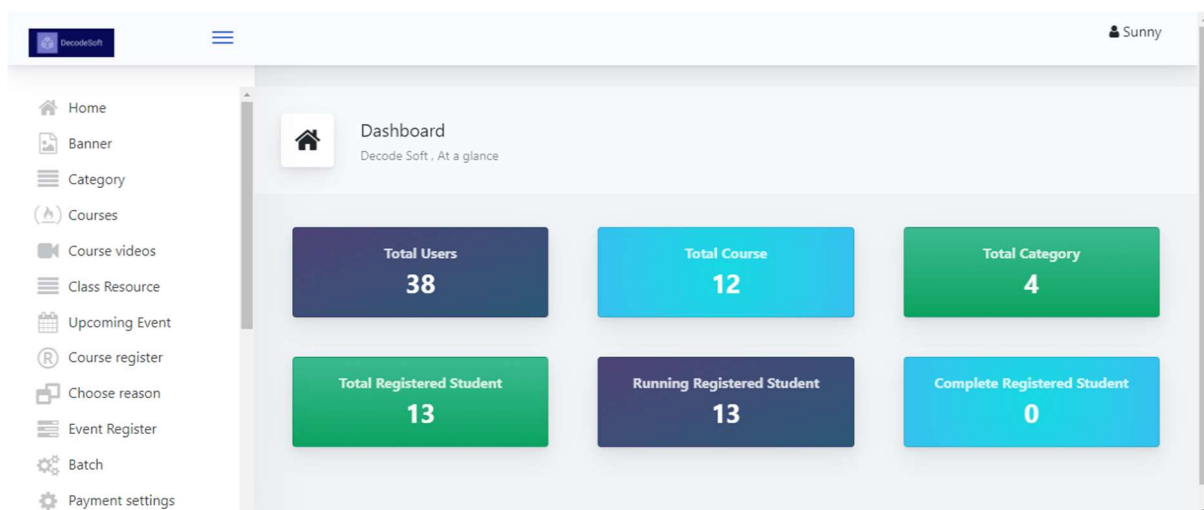


Figure 4.2.2.2: Admin Dashboard

Here now I am going to attach important portraits of sections of admin dashboard of this project and want to say a little description about this pictures.

Figure 4.2.2.3: Admin Dashboard-add course

Admin can add courses from this interface for main website content. There exists some field necessary as course name field, he/she can select category for course, an image will provide from here also class type and total class input fields are included here. After press submit button simply admin can add courses from here then he/she get a new interface that holds all courses those actually added by him/her.

#	Course name	image	Enroll Student	All Students	Total Batches	Action
1	Web Development		0	View	1	Edit Delete
2	Business Communication		0	View	1	Edit Delete
3	2D Animation		0	View	1	Edit Delete
4	Logo Design		0	View	1	Edit Delete

Figure 4.2.2.4: Admin Dashboard-all courses

Also in this interface admin have got a add course button, by this button he/she can go again previous interface to add course if he/she wants.

In this similar way admin can add category. In this section admin can preview category name and image.

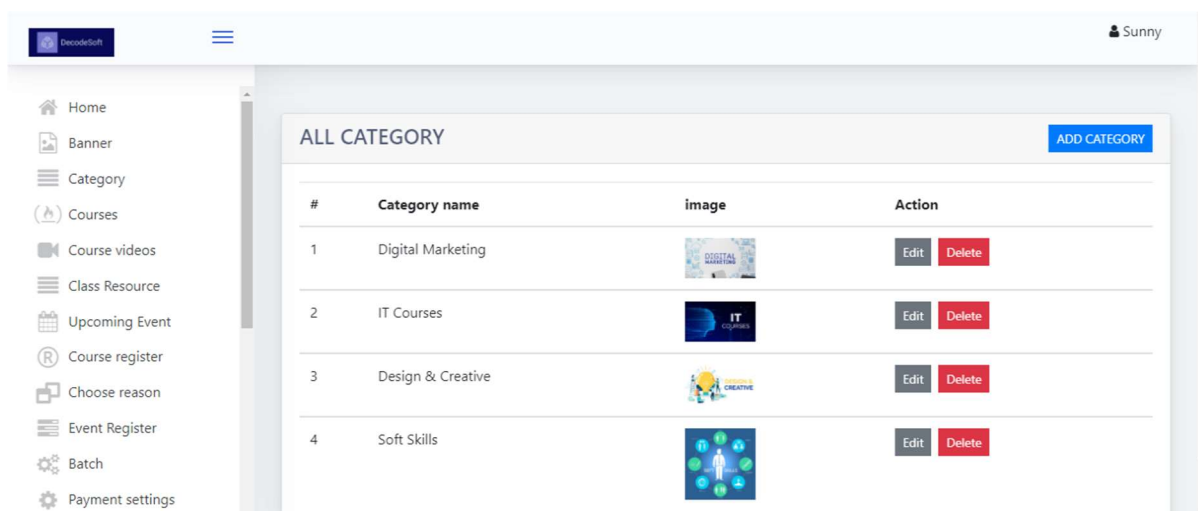


Figure 4.2.2.5: Admin Dashboard-all categories

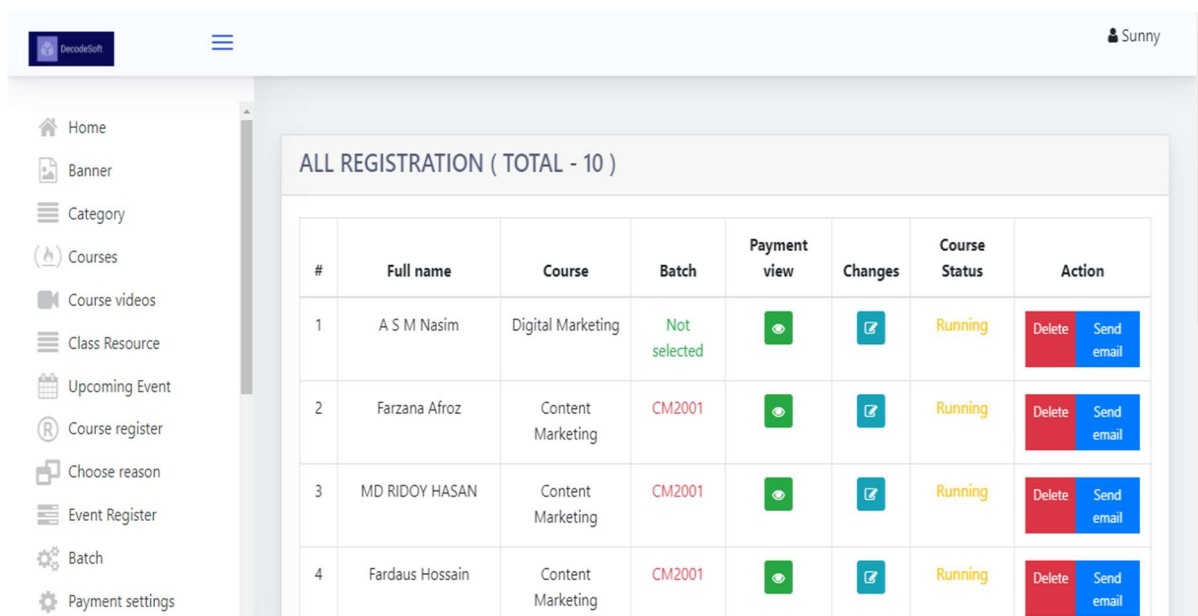
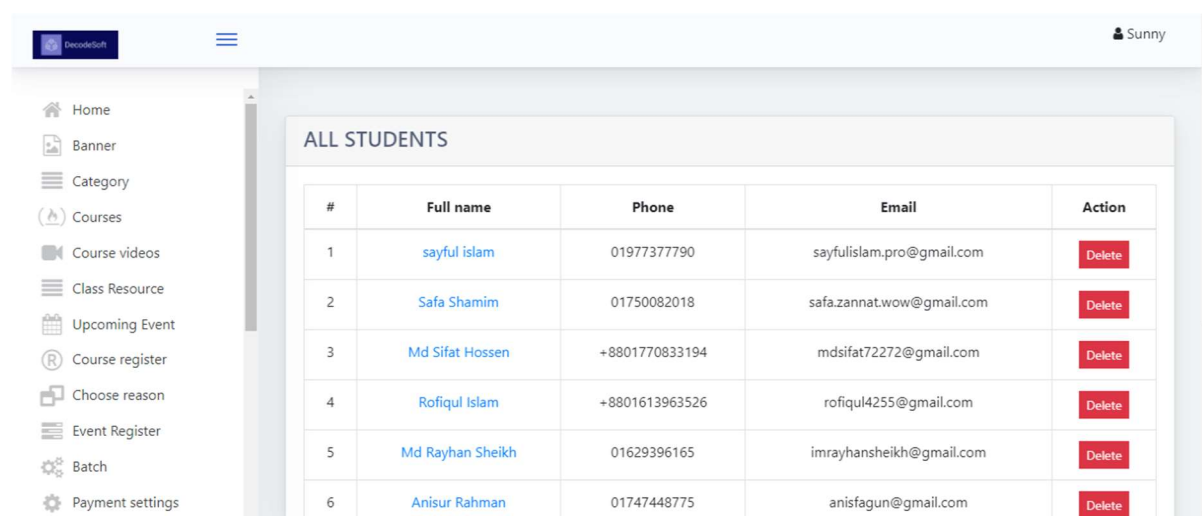


Figure 4.2.2.6: Admin Dashboard-all registration

In this part admin see the information what is provided by registered student with their name, course etc. Here is more important thing might be action column where exists two button. Admin can delete a student from here and also he/she can send email to registered student.

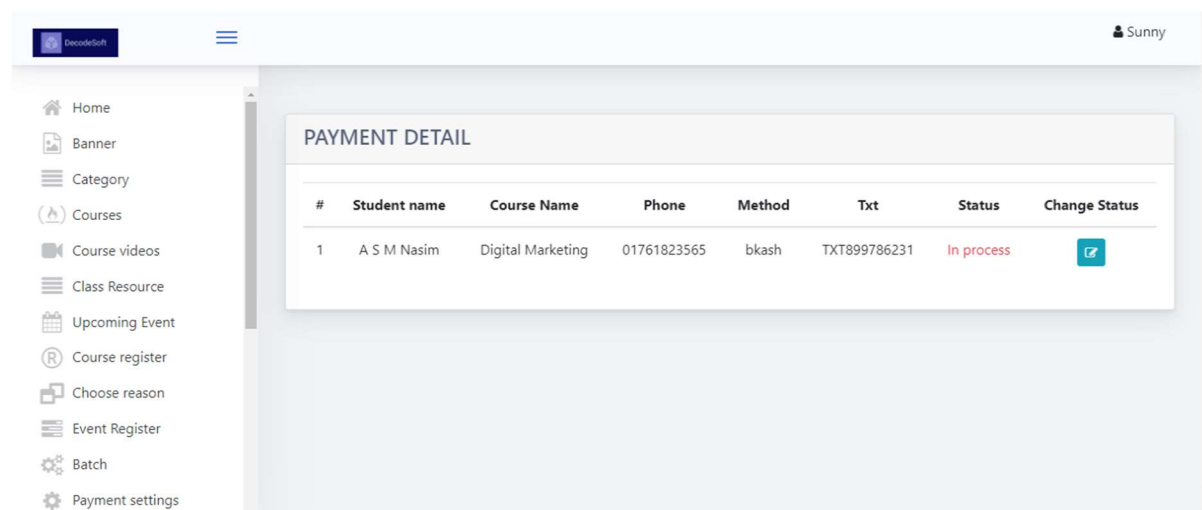


The screenshot shows the 'ALL STUDENTS' section of the admin dashboard. It features a table with columns for #, Full name, Phone, Email, and Action. The 'Full name' and 'Email' columns contain hyperlinks. The 'Action' column has a red 'Delete' button for each student.

#	Full name	Phone	Email	Action
1	sayful islam	01977377790	sayfulislam.pro@gmail.com	Delete
2	Safa Shamim	01750082018	safa.zannat.wow@gmail.com	Delete
3	Md Sifat Hossen	+8801770833194	mdsifat72272@gmail.com	Delete
4	Rofiqul Islam	+8801613963526	rofiqul4255@gmail.com	Delete
5	Md Rayhan Sheikh	01629396165	imrayhansheikh@gmail.com	Delete
6	Anisur Rahman	01747448775	anisfagun@gmail.com	Delete

Figure 4.2.2.7: Admin Dashboard-all students

When student provide their information to complete registration that will be stored in the database and from database the information are seen in front admin as this type of interface. In this all students section admin can take an action to delete any student if he/she wants.



The screenshot shows the 'PAYMENT DETAIL' section of the admin dashboard. It features a table with columns for #, Student name, Course Name, Phone, Method, Txt, Status, and Change Status. The 'Status' column shows 'In process' in red text. The 'Change Status' column has a blue button with a checkmark icon.

#	Student name	Course Name	Phone	Method	Txt	Status	Change Status
1	A S M Nasim	Digital Marketing	01761823565	bkash	TXT899786231	In process	

Figure 4.2.2.8: Admin Dashboard-payment detail

Admin can change payment status by navigate this page. When he click on the change status icon he will get a pop up as called change payment status modal.

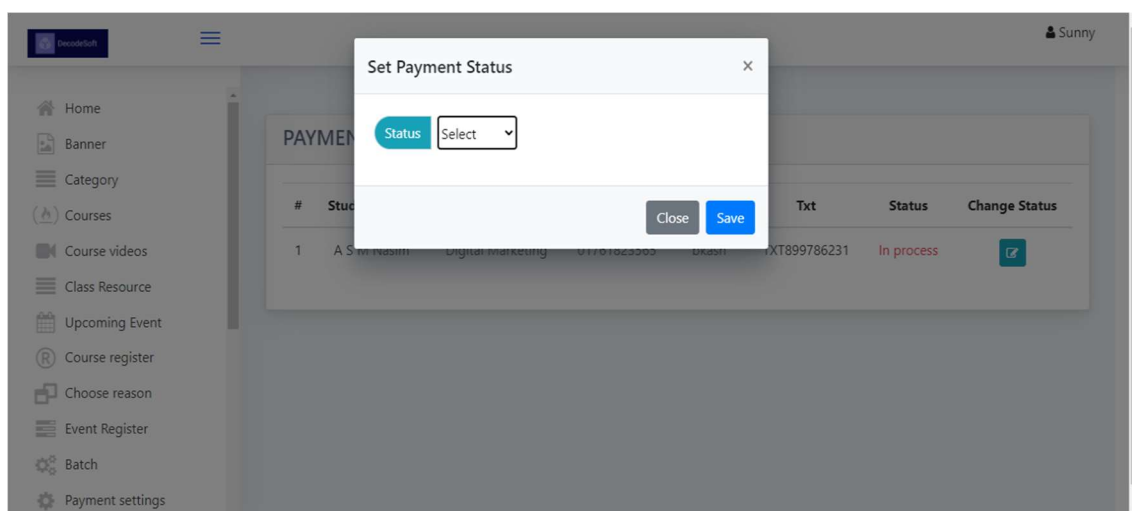


Figure 4.2.2.9: Admin Dashboard-set payment status

When students pay for any course enrollment admin get notified and then set payment status in process to payment successful.

Also admin can add upcoming event in this project for students. If any update comes to add an event then he/she can edit from here and can delete any older event what is unnecessary for users.

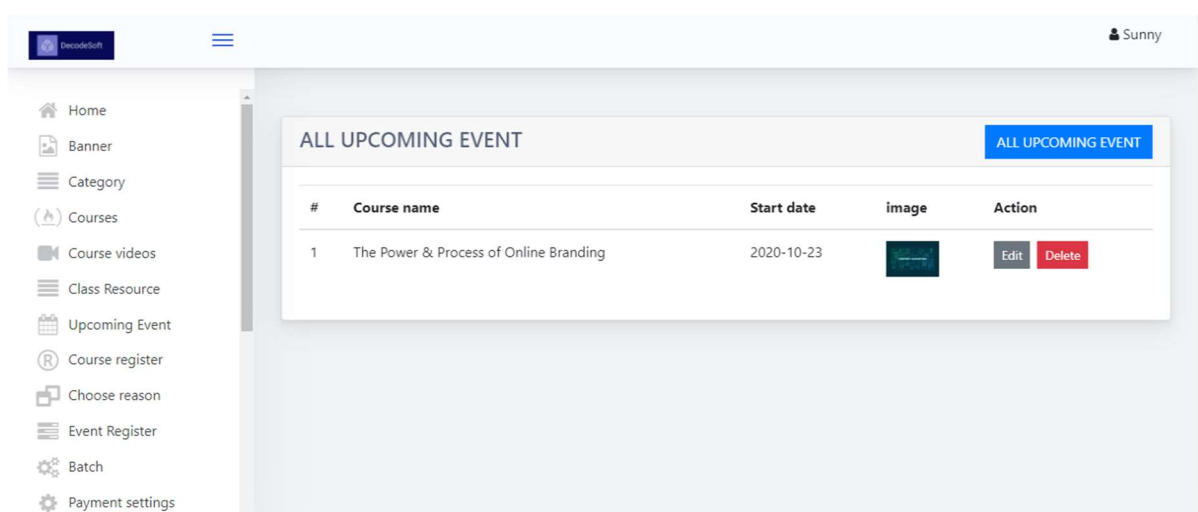


Figure 4.2.2.10: Admin Dashboard-all upcoming events

All blogs of this project can be created by admin in blog section. Here exists a button to add a new blog for this project and admin can edit all blogs. Also he can delete blogs from here that is given in below picture.

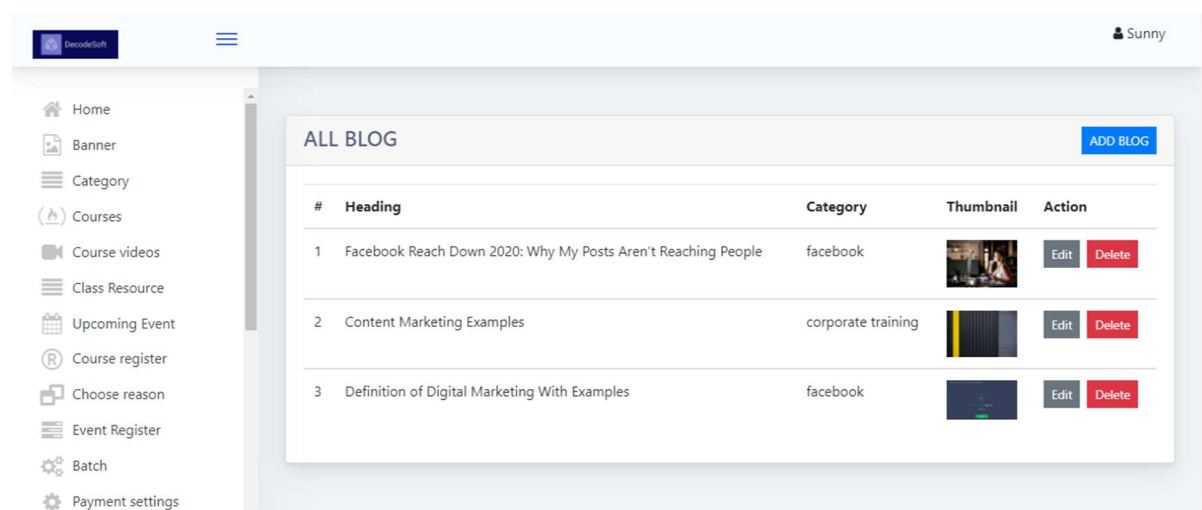


Figure 4.2.2.11: Admin Dashboard-all blogs

After all these above discussion admin can do more activities that are included in this project. An admin also handle the message and contact section also. User and student can communicate any time within this system is included this project.

4.3 Back-end Design

In my project development back-end design is more significant because all logical tasks are listed in back-end design. I have to use server side language like PHP to maintain schema relationship in database. I have used both JQuery and PHP as for server-side development simultaneously in my project. As for using xampp control panel it is easier to maintain MySQL database to store data.

Now, I am going to include some images of database in below. At first the demo image that holds all tables that are used in this project is inserted and then gradually, I have listed some important table to show in this paper.

Table	Action	Rows	Type	Collation	Size	Overhead
admin	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	1	InnoDB	utf8mb4_unicode_ci	16.0 K	-
banners	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	1	InnoDB	utf8mb4_unicode_ci	16.0 K	-
batches	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	18	InnoDB	utf8mb4_unicode_ci	16.0 K	-
blogs	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	3	InnoDB	utf8_general_ci	128.0 K	-
blog_categories	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	12	InnoDB	utf8_general_ci	16.0 K	-
careers	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	8	InnoDB	utf8mb4_unicode_ci	16.0 K	-
categories	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	4	InnoDB	utf8mb4_unicode_ci	16.0 K	-
class_resources	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	7	InnoDB	utf8_general_ci	16.0 K	-
contact_messages	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	4	InnoDB	utf8mb4_unicode_ci	16.0 K	-
courses	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	12	InnoDB	utf8mb4_unicode_ci	288.0 K	-
course_registers	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	18	InnoDB	utf8mb4_unicode_ci	16.0 K	-
course_videos	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	3	InnoDB	utf8mb4_unicode_ci	16.0 K	-
evenet_registers	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	2	InnoDB	utf8mb4_unicode_ci	16.0 K	-
join_members	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	8	InnoDB	utf8mb4_unicode_ci	16.0 K	-
meta_images	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	4	InnoDB	utf8_general_ci	16.0 K	-
migrations	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	9	InnoDB	utf8mb4_unicode_ci	16.0 K	-
notifications	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	4	InnoDB	utf8mb4_unicode_ci	32.0 K	-
password_resets	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	2	InnoDB	utf8mb4_unicode_ci	32.0 K	-
payments	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	17	InnoDB	utf8mb4_unicode_ci	16.0 K	-
payment_settings	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	2	InnoDB	utf8mb4_unicode_ci	16.0 K	-
roles	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	8	InnoDB	utf8mb4_unicode_ci	16.0 K	-
upcoming_courses	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	1	InnoDB	utf8mb4_unicode_ci	16.0 K	-
users	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	38	InnoDB	utf8mb4_unicode_ci	16.0 K	-
why_chooses	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	153	InnoDB	utf8mb4_unicode_ci	80.0 K	-
24 tables	Sum	388	InnoDB	utf8mb4_general_ci	864.0 K	0 B

Figure 4.3.1: Project Database

When admin register into this system then data all are stored in admin table in project database but the password is stored in hash password format into the database for more security purpose.

	id	name	email	password	text_password	status	created_at	updated_at
☐	5	Sunny	admin@decodesoft.com	\$2y\$10\$JweTDLdJlXnXBOLWr1hQuXyXghf9SThu5bqTVJHwr...	admin123\$	1	NULL	NULL

Figure 4.3.2: Admin table

Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

SELECT * FROM `categories`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	id	name	description	image	created_at	updated_at
☐ Edit Copy Delete	1	Soft Skills	While a hard skill lets you do something, a soft s...	uploads/category/Soft_Skills.jpg	2020-06-15 02:21:37	2020-06-15 02:21:37
☐ Edit Copy Delete	3	Design & Creative	Creative people are in-demand both online and offi...	uploads/category/15922091525776.jpg	2020-06-15 02:19:13	2020-06-15 02:19:13
☐ Edit Copy Delete	4	IT Courses	Advanced IT skills keep you ahead of others in thi...	uploads/category/15922091116022.jpg	2020-06-15 02:18:31	2020-06-15 02:18:31
☐ Edit Copy Delete	6	Digital Marketing	With the increasing internet penetration, moving o...	uploads/category/15922093788971.jpg	2020-06-15 02:22:58	2020-06-15 02:22:58

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Figure 4.3.3: Categories table

Server: 127.0.0.1Database: projectTable: courses

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Showing rows 0 - 11 (12 total, Query took 0.0297 seconds.)

SELECT * FROM `courses`

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

id

name

image

intro

what_is_content

structure

freatues

what_learn

who_enroll

slug

created_at

updated_at

Edit

Copy

Delete

1

Digital Marketing

uploads/wHN9dKB11/vHfAoPyzA15Q4DKisc0JMEIX0K2A8L.p...

<h3 style="text-align: center;">What is its ...</h3><h1 style="text-align: center;">What is its ...</h1>

<p>So what is this digital marketing? What is its ...</p>

<p style="color: rgb(33, 37, 41); font-family: Nunito Sans, sans-serif;">What is its ...</p>

<table class="table table-bordered"><tbody><tr><td>...</td></tr></tbody></table>

<table class="table"><tbody><tr><td>...</td></tr></tbody></table>

2020-06-09 08:33:04

2020-11-2

Edit

Copy

Delete

2

Search Engine Optimization (SEO)

uploads/9Sen6OAAQ2Riy7waK1dDmWDXurSi8PopGV1ZRZ.p...

<div><h1 style="margin-top: 0pt; margin-left: 0pt; margin-bottom: 10px;">What is its ...</h1><h3 style="text-align: center;">What is its ...</h3><h1 style="text-align: center;">What is its ...</h1>

<p>So what is this digital marketing? What is its ...</p>

<p style="color: rgb(33, 37, 41); font-family: Nunito Sans, sans-serif;">What is its ...</p>

<table class="table table-bordered"><tbody><tr><td>...</td></tr></tbody></table>

<table class="table"><tbody><tr><td>...</td></tr></tbody></table>

2020-06-10 08:39:38

2020-11-2

Edit

Copy

Delete

3

Social Media Marketing

uploads/R42Ay18gtaFTUJ3hA8BokKzd4Ovm8wLAYLTggiv6.p...

<h1 style="text-align: center;">What is its ...</h1><h3 style="text-align: center;">What is its ...</h3><h1 style="text-align: center;">What is its ...</h1>

<p>So what is this digital marketing? What is its ...</p>

<p style="color: rgb(33, 37, 41); font-family: Nunito Sans, sans-serif;">What is its ...</p>

<table class="table table-bordered"><tbody><tr><td>...</td></tr></tbody></table>

<table class="table"><tbody><tr><td>...</td></tr></tbody></table>

2020-06-10 08:50:49

2020-11-2

Edit

Copy

Delete

4

Facebook Marketing

uploads/9HqkcdDndBoZ9k9XB0sETsQJF1dR8dIOPD.p...

<h1 style="text-align: center;">What is its ...</h1><h3 style="text-align: center;">What is its ...</h3><h1 style="text-align: center;">What is its ...</h1>

<p>So what is this digital marketing? What is its ...</p>

<p style="color: rgb(33, 37, 41); font-family: Nunito Sans, sans-serif;">What is its ...</p>

<table class="table table-bordered"><tbody><tr><td>...</td></tr></tbody></table>

<table class="table"><tbody><tr><td>...</td></tr></tbody></table>

2020-06-10 09:20:08

2020-11-2

Click to sort results by this column.

Shift+Click to add this column to ORDER BY clause or to toggle ASC/DESC.

Ctrl+Click or Alt+Click (Mac) to remove column from ORDER BY clause

Figure 4.3.4: Courses table

Server: 127.0.0.1 » Database: project » Table: course_registers

Showing rows 0 - 9 (10 total, Query took 0.0007 seconds.)

SELECT * FROM `course\_registers`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		id	user_id	course_id	batch_id	payment_id	status	created_at	updated_at
☐	Edit Copy Delete	4	30	5	6	7	0	NULL	NULL
☐	Edit Copy Delete	5	36	5	6	8	0	NULL	2020-08-21 18:50:42
☐	Edit Copy Delete	6	34	5	6	9	0	NULL	2020-08-21 21:10:48
☐	Edit Copy Delete	7	38	5	6	10	0	NULL	NULL
☐	Edit Copy Delete	8	40	5	6	11	0	NULL	2020-08-22 07:58:39
☐	Edit Copy Delete	9	41	5	6	12	0	NULL	2020-08-22 11:10:04
☐	Edit Copy Delete	10	42	5	6	13	0	NULL	2020-08-22 14:29:51
☐	Edit Copy Delete	13	46	5	6	16	0	NULL	2020-08-31 10:23:24
☐	Edit Copy Delete	14	48	5	6	17	0	NULL	2020-09-01 10:43:49
☐	Edit Copy Delete	19	66	1	-1	22	0	NULL	NULL

Figure 4.3.5: Course-registers table

Server: 127.0.0.1 » Database: project » Table: users

Showing rows 1 - 10 (27 total, Query took 0.0007 seconds.)

SELECT * FROM `users`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		id	first_name	last_name	email	email_verified_at	phone	password	image
☐	Edit Copy Delete	27	sayful	islam	sayfulislam.pro@gmail.com	NULL	01977377790	\$2y\$10\$uLg00YtdSU2Oq7hmulU00YpmraQxi.QioyayJzUh...	image/LmEbYw2T2sZaFTiWuVD.jpg
☐	Edit Copy Delete	30	Safa	Shamim	safa.zannat.wow@gmail.com	NULL	01750082018	\$2y\$10\$6RuGC2mVRhaQVz3hGlgL.mV.oz8l5zCjWzB2rYCV7W...	NULL
☐	Edit Copy Delete	31	Md Sifat	Hossen	mdsifat72727@gmail.com	NULL	+8801770833194	\$2y\$10\$T8NmEAL9SDL25fAoo1vooetLDPuXWAQBCk5T7yevmQk...	image/WQ3fQoqvVxjnbGV0P4d8.jpg
☐	Edit Copy Delete	32	Rofiqul	Islam	rofiqul4255@gmail.com	NULL	+8801613963526	\$2y\$10\$CEAoZynzw7CvbSgJcQFouOrMIPT.S0bAG2YlDix1x...	NULL
☐	Edit Copy Delete	33	Md Rayhan	Sheikh	imrayhansheikh@gmail.com	NULL	01629396165	\$2y\$10\$az35eg34ZnjbPnCMjIS3.On.aWh5Ao/wWyVTkzjeS...	NULL
☐	Edit Copy Delete	34	Anisur	Rahman	anisfagun@gmail.com	NULL	01747448775	\$2y\$10\$JyRtI3wMXLCbbacsBMCmeHyntIQE9bOYpgqWOrMZTvf...	NULL
☐	Edit Copy Delete	35	S. M. ARIFUL	ISLAM	arifbba.2012@gmail.com	NULL	+8801783103911	\$2y\$10\$WzuulolpKLO3O6wclUuKevBoDAIE2GVYaYgeAumtj8...	NULL
☐	Edit Copy Delete	36	Syed	Al Nurain	syedainurain@gmail.com	NULL	01763181405	\$2y\$10\$srJ7qyQCGAJJDTVprA1BseBGTekE9vldqgKB8vcW...	NULL
☐	Edit Copy Delete	37	Md. Shahidul	Islam	shahidul877@gmail.com	NULL	01675203032	\$2y\$10\$A880OkVxod7qt0JMw2BP6./uicgIRvg6U6OX4gTHSBP...	NULL
☐	Edit Copy Delete	38	Md Sabbir	Ahmed	mdsabbirahmed2g@gmail.com	NULL	01770975848	\$2y\$10\$UIDyG.wMRgufKpoPHJNpOosnAn7awhw21SRurFJ4Fm...	image/zBQjpnK0Nch8FPhHEOc.jpg
☐	Edit Copy Delete	39	Admin	uddin	admin@smartcommerce.com	NULL	01729441788	\$2y\$10\$HuD74IOEemSk.IXRi.rJv.ArHleTFslc3ZkPOvgl.T...	NULL
☐	Edit Copy Delete	40	Nazmoon	Nusraat	nazmoon.wow@gmail.com	NULL	01710389334	\$2y\$10\$Ajsosu7t0IAlIVO4JkLe6OOqXO94SKzB8BqlqMLYh...	NULL
☐	Edit Copy Delete	41	Nusrat Jahan	Labonnay	labonnay.wow@gmail.com	NULL	01819144390	\$2y\$10\$sh3qRim52oPVcGuZ0rEOeyWmeQI/S6Mx0EmtulaPe...	NULL
☐	Edit Copy Delete	42	Fardaus	Hossain	hfardaus@gmail.com	NULL	01718587058	\$2y\$10\$7cry.s4JGsiRZX1oMloPOuBYnerZk7wLH7v9n9hAl...	image/BwuD3tzzQyBYjnXcipmp.jpg
☐	Edit Copy Delete	43	Md. Shahidul	Islam	shahidulmsi89@gmail.com	NULL	01723315260	\$2y\$10\$3NMI.7sWuYsRdZD3SWmy1uvCGYHYHMSHYR7.Q.ZuTR...	NULL
☐	Edit Copy Delete	45	Shah	Jayed	shah.jayed@gmail.com	NULL	8801625424210	\$2y\$10\$taBqqqhYDQgVpOUK4/BM8uYQkPa1JrVd9v5vObbF8vC...	NULL
☐	Edit Copy Delete	46	MD RIDOY	HASAN	ridoyhasanu@gmail.com	NULL	01945805382	\$2y\$10\$9hwpulE58cXGv9Dvq6DvbeOTXLN2BygnQW438rtfPd9...	image/zJfPsnby1WwrehVqkioq.png

Figure 4.3.6: Users table

4.4 Interaction Design and UX

The term interaction design actually refers a way for discussing about project nature between system and user. I have focused on interaction design for better understanding user requirements and expectations.

For completing UX design I notice on user friendly website to develop my project more user-friendly in market.

4.5 Implementation Requirements

I have used xampp for apache server and run my project in google chrome browser by the help of this localhost server. As I have used vs code for writing code and logic of this project as the same time I have used git in unit testing for better implementation.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Introduction

I have followed a process to put actions for formulated planning of my project that is called implementation I believe. Before I implement those plan must has been executed and objectives would be clearer of this project. When I will go to test one of many formulated plan it would be called implementation testing for my project I believe.

In previously I have discussed about design process containing requirement specification, business process model, database design and so on.

Usually software bugs are exists in software modules and it is not a careless task for me to identify because of complexity. We all know that man have a few ability to manage complexity. Now I am going to say about implementation and testing detail in this chapter.

5.2 Implementation of Database

I have designed project database that is shown ago and now in this part I have to go for implementing database design into MySQL database. For that I have created a database named project into MySQL and then created all of my schema and their contents also. I have completed the data decoration in column wise into my project database. As I have used PHP then I would be able to store, edit, delete and can show all data from the database by accessing with PHP.

5.3 Implementation of Front-end Design

I have develop my website design by using HTML for basic structure, CSS for basic layout and JavaScript for handling the attributes and behaviors of this project. I have also used Bootstrap 4 and media query in CSS for making responsive more. I was more conscious for doing well in front-end design, in this case I have completed a better implementation while doing my project work.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Introduction

In my web based online training institute project I have created a new platform to learners and job seekers. At the time of designing front-end I was more concerned about eye-catchy interface and attractive. Beside for developing back-end I really was worried about fast execution, completion, reliable performance and also database handling perfectly. However, I have designed and developed my project to add a new dimension in technology in our country as well as over the world.

6.2 Discussion and Conclusion

In my project I emphasize to provide several online training courses. From this project anyone can purchase their liked course to learn and also they would can join in online training classes from anywhere from my country. For this learners have to pay a minimal cost for getting enrolment for this course. In my project, admin needed who is eligible for adding, deleting, updating courses and sub-categories. Beside this, admin have to look up on learner's interactions like registration completion, payment completion etc. I hope this kind of project will more helpful for everyone who want to learn through online, I have tried my best for implementing my idea. By doing complete of this project I have learned a lot of new technology and I have gained much experience.

6.3 Scope for Further Developments

As my system is developed for submitting final year project in my university so I don't have domain and hosting as well. In future I hope I will have published my domain with hosting for this project for spreading to all. I have an idea of business basis on this project for that I will make all courses very informative and educative for all. Besides for further development I chose some of tasks those are in below:

- Many new categories and sub-categories will be added in future
- Updated technology brings updated features, I will add updated technology in future if needed.

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