Design and Development of Web Base Application

A Web-based System for House Tutors

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This Report Present in Partial Fulfillment of the necessities for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

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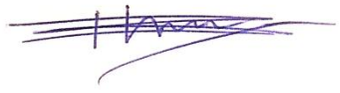

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DECLARATION

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

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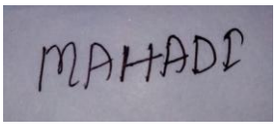

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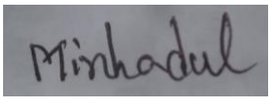

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ABSTRACT

Now a day it is the environment of fast-growth business, and it's fantastic to have the option to client need in the most effective and ideal way. If users wish to visit on the web and have instant admittance to your services. Online is a way of life House tutors online web application, which provide best teacher at a place . It allows to find best teacher by matching. It gives quick permission to admin to view all data . We must study and understand various types of technology in order to make an House tutors web based application. These advancements are multi-layered design, server and user side scripting strategies, execution advances such as Laravel, programming language (like php), and relational database. Our project purpose is to come light a primary website where a user can provided with booking application and also able to know about the development of technology with such an application. This report will discuss about over each of the basic advancement of technologies to make and implement an A Web based system for House tutors application.

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TABLE OF CONTENTS

CONTENTS		PAGE
Board of examiners		ii
Declaration		iii
Acknowledgements		iv
Abstract		v
CHAPTER		
CHAPTER 1: INTRODUCTION		**1-3**
1.1	Introduction	1
1.2	Motivation	1
1.3	Objectives	2
1.4	Expected Outcome	2
1.5	Report Layout	2, 3
CHAPTER 2: BACKGROUND		**4-6**
2.1	Introduction	4
2.2	Related Works	4-5
2.3	Comparative Studies	5
2.4	Scope of the Problem	5
2.5	Challenges	5, 6
CHAPTER 3: REQUIREMENT SPECIFICATION		**7-13**
3.1	Business Process Modeling	7
3.2	Requirement Collection and Analysis	8-10
3.3	Use Case Modeling and Description	10, 11
3.4	Design Requirements	11
3.5	Entity Relationship Diagram and Description	12
3.6	Flowchart	13

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CHAPTER 4: DESIGN SPECIFICATION **14-17**

4.1 Front-end Design 14

4.2 Back-end Design 15

4.3 Interaction Design and UX 15-16

4.4 Implementation Requirements 17

CHAPTER 5: IMPLEMENTATION AND TESTING **19-42**

5.1 Implementation of Database 19

5.2 Implementation of Front-end Design 20

5.3 Testing Implementation 20

5.4 Test Results and Reports 20-42

CHAPTER 6: IMPACT ON SOCIETY, ENVIRONMENTAND SUSTAINABILITY **44-45**

6.1 Impact on Society 44

6.2 Impact on Environment 44

6.3 Ethical Aspects 44

6.4 Sustainability Plan 45

CHAPTER 7: CONCLUSION AND FUTURE SCOPE **46**

6.0 Discussion and Conclusion 46

6.1 Scope for Further Developments 39

APPENDIX 47

REFERENCES 48

REPORT 49

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LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1.1: Business Process Model	7
Figure 3.2.1: Use Case Diagram	8
Figure 3.5: Entity Relational Diagram	12
Figure 3.6: Flowchart	13
Figure 4.1: Connect Server to Browser	15
Figure 4.3.1: Database	17
Figure 5.1.1: Implementation of Database	19
Figure 5.2.1: Front-End Design 20	20
Figure 5.1: Home Page 23	23
Figure 5.2: Booking Page 24	24
Figure 5.3: Search Page 25	25
Figure 5.4: Teacher Detail page 26	26
Figure 5.5: Sign Up Page 27	27
Figure 5.6: Login Page 28	28
Figure 5.7: Teacher Dashboard 29	29
Figure 5.8: Appoinment List 30	30
Figure 5.9: All Student 31	31
Figure 5.10: Review page 32	32
Figure 5.11: Teacher Details Add 33	33
Figure 5.12: Student DashBoard 34	34
Figure 5.13: Student favorite list 35	35
Figure 5.14: student details add 36	36
Figure 5.15: Super Admin login page 37	37
Figure 5.16: Admin Dashboard 38	38
Figure 5.17: Admin Teacher List Page 39	39

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Figure 5.18: Admin Student List Page 39 39

Figure: 5.19: Admin Notification Page 40

Figure 5.20: Create category Page 40

Figure: 5.21: Category Data Table 41

Figure 5.22: Contact Page 42

igure 5.23: Application about Page 42

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LIST OF TABLES

TABLES	PAGE NO
Table 5.4.1: Test Result -1	21
Table 5.4.2: Test Result -2	21
Table 5.4.3: Test Result -3	21

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Online is a fast developing field as a recognized and also used business illustration. There are many websites that are implemented by businesses that provide functionality for completing commercial transactions on the web based basis .Its said that the system of online is becoming a common place now a days. . on the internet, now A days its very to see different types of online application ,However this online application is different from theirs and the purpose of our application is to show the overall purpose of this project is to show the available teacher but web can be found from home situation. For use purposes, however, this report will discuss web-based teacher finding system. An online is a virtual area on the web. In this online terminal, guardian can browse and select the best teacher by matching their requirment . Form the teacher list guardian will able to find best teacher and they can contact and book easily which will reduce their harassment they dont have to be worried

1.2 Motivation

When we try to get a best teacher have to face many problems on locally .we didnt find the best teacher by matching our requirments .To solve this problem we come up with this teacher finding idea on online.It will reduce lot of harassment thats why we decided to implement this idea

1.3 Objective

- To handale to whole information required to manage data we designed a web base management system
- This app is completely free and user friendly.
- To create a better place for people.

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To provide more opportunity for user like Select the best teacher, price rate, detail teachers information etc.

1.4 Expected Outcome

- User can be access any time in this web-based application
- Save time and cost
- The Data is stored electronically, it is necessary to have a Mobile or Computer and Network connection to access the application.
- Using mobile or computer users can easily access the application for the teacher.
- Good place for finding the best teacher without any problem.
- Guardian can find teachers and connect and contact very easily .
- Don't worry about teachers because they are verified.
- Using one device guardian gets his/her perfect match teachers.

1.5 Report Layout

Our project has different parts and categories. In this project report, we divided into 7 chapters. The title page, approval page, abstract, Acknowledgements, list of tables, list of contents, etc. are initial pages. The chapter description is given below. They are:-

Chapter 1 Introduction:

This chapter, mainly described project content. Motivation, expected outcome, and objective are described in this chapter.

Chapter 2 Background:

This Chapter, discuss about related work and scope. Also described the project challenges in more detail.

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Chapter 3 Requirement Specification:

In this chapter, Discuss about requirement of this project. Flowchart diagram, Business process model, use case diagram, requirement collection are described.

Chapter 4 Design Specification:

In this chapter, discuss the project front-end and back-end design.

Chapter 5 Implementation and Testing:

Database implementation and testing result and report are discuss in this chapter.

Chapter 6 Impact on Society, Environment and Sustainability:

In this chapter we discussed about impact on society and impact on environment. Also discussed about Sustainability of this project.

Chapter 7 Future Scope and Conclusion:

This chapter discuss about Future work of this web-based project and conclusion of this project.

CHAPTER 2

BACKGROUND

2.1 Introduction

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House tutors is a web-based application that helps to find the best teacher easily from any where . Many people and organizations are interested in creating and Manage this application projects . New technologies and some nonprofits have changed workplace processes. In this chapter, related works, comparative studies, challenges have discussed about Web-based System for House Tutors

2.2 Related Works

There are many web based application like BdHomeTutor,Hometutorbd etc. and for this preparation this apps need a great space.

guardian are easily come for find teacher on online. There is some application like **House tutors** about **BdHomeTutor,Hometutorbd** etc. Our application is not unique from those websites. Our application is the solution of harassment of guardian. So we create this application to solve this problem.

This application are divided by 3 parts:-

- ✓ Management (Admin)
- ✓ Guardia/Student/(User)
- ✓ Teacher(User)

Management Level: This web-based application is maintenance by the admin with full authority. Create, Delete, Update, Edit, etc. only admin can access and also store data or information in database.

User/Guardian Level: User can easily login, visit Teacher Profile, Favorite teacher. And also see rules and regulations. Read, create, update, etc. user cannot access all property in this application.

Easy to use because its very user-friendly web-based application “House tutors”. Easily implementation this system. This application works smoothly in all configuration. In every web-based application most necessary things is Data. Careful about arranged and stored a proper way in the database for a long time. Some necessaries are given below:-

- ❖ Search Teacher.

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- ❖ Quality of Teacher, price of Teacher, Area Of Teacher, publication, using experience
- ❖ Minimize data redundancy
- ❖ Summary

2.3 Comparative Studies

Choice Teacher, view teacher and compare with any teacher, people can easily select their teacher only House tutors gives these options. This web-based application system gives emphasis quality and also gives emphasis on the facilities of teacher.

2.4 Scope of the Problem

Nowadays the modern world is moving fastly. Guardian/Student and Teacher can easily communicate with each other, this system provides these demands. Guardian/Student and Teacher will survive a lot. Easily search in a short time and select teacher, these requirement fulfill by this system. This application system perform smoothly computer or mobile device.

- ➢ Approachable: Easy to visit, teacher selection, collect information about teacher.
- ➢ Multiple Access: One or more user access at a time.
- ➢ Search: Search for teachers
- ➢ Viewable: Easy to view

2.5 Challenge

Every work face some challenges. Successful work finished by the challenge. In web-based application project faced some challenges. In this system, we have tried to complete User's requisite with user's fulfill. It's very challenging for us to make this

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project and also hard work to solve this challenge. Although our application is friendly for user's it will difficult to make this work.

Big Challenge is we try to attract users by UI. When we search/find teacher but teachers can't show in teachers list to user. We faced challenge to solve this problem. We faced another challenge to solve quality, improve services, improved speed service. It really needs for user/customers

They are:

- Return Valid Data
- Admin control Dashboard
- Work Efficiency
- Resolve Manual Entry
- Resolve Minimum Time complexity
- Friendly UI
- Protection data

CHAPTER 3

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REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business Process Modeling (BPM) representation graphical workflow and BPM analyzed the current process, and improve efficiency, activity. Business Process Model (BPM) is analysis by business analysts. Figure 3.1.1 represents Business Process Modeling. Given below:-

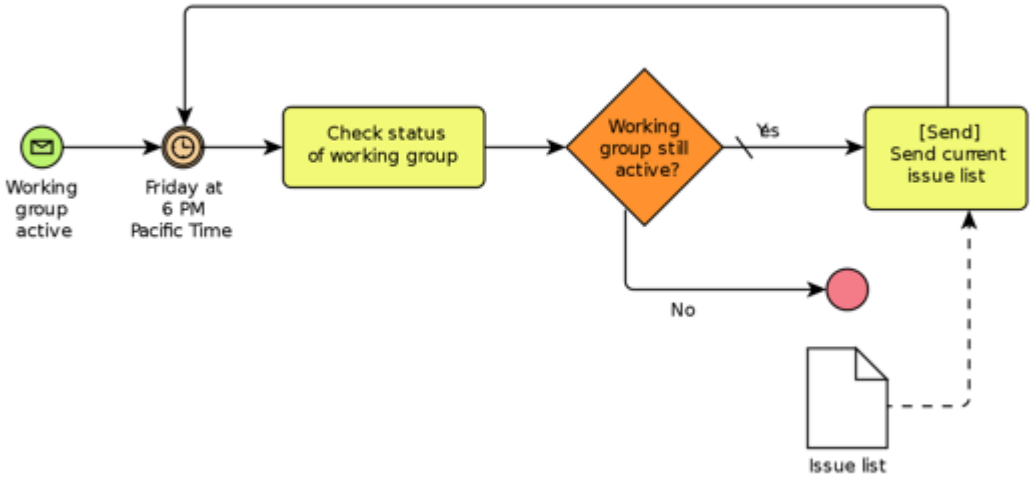

Figure 3.1.1: Business Process Model

3.2 Use Case Modeling and Description

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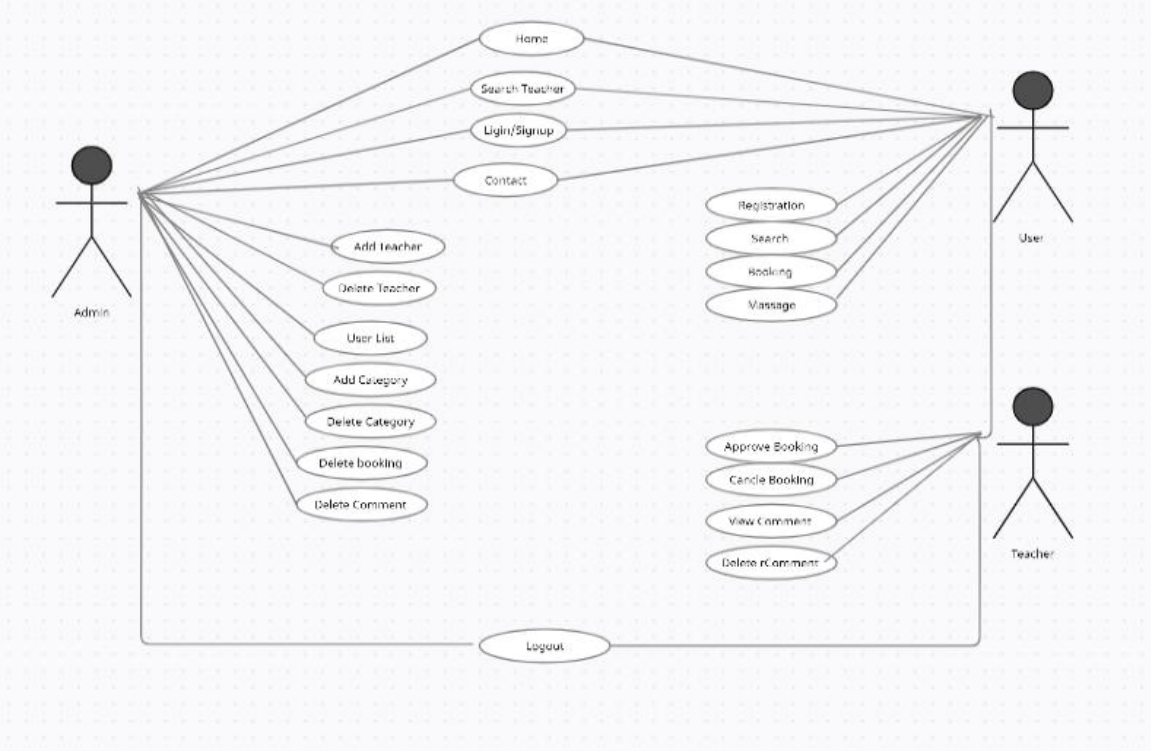

Figure 3.2: Use Case Diagram

Actor: User

Step of work

a) User case start when user enter in system.
b) User can create registration, login, see home, about, contact, teacher list, add to favorite, appoint, like, dislike, comment, notification,email, view profile.

i) Registration

Brief description: User can register the system.

Actor: User

Steps of work:

a) A User successfully registered user case starts.

ii) Login

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Brief Description: Admin and Users can login. Admin can only login but user can login after registration.

Actor: Admin, User

Steps of work

a) Use case start when user and admin can login.
b) Admin and users can see his/her profile.

iii) Home, About, Contact

Brief Description: Admin and users can view Home, about, Contact,Teacher List without login.

Actor: Admin, User

Steps of work

a) Use case start when system is running.
b) Admin and Users can view home, contact and contact.

iv) Teacher List

Brief Description: Admin and User can view Teacher list after login.

Actor: Teacher, User

Steps of work

a) Use case start after login a system.
b) Teachr can view approve booking/appoinmnet and Users can view whether its approved or not

v) Add card, Checkout, Payment

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Brief Description: After choosing teacher Users can add teacher in the favorite list , after add favorite list users can view and appoint and users can view the payment for pay.

Actor: Admin (only)

Steps of work

a) Use case start when users choose teacher.
b) User can access after login.

vi) Add teacher , Delete teacher, teacher list, Add Category, Delete Category

Brief Description: After login admin can create teacher, delete teacher, see the teacher list, and also create or delete the category.

Actor: teacher (only)

Steps of work

a) Use case start when admin login the system.
b) Can approve and cancel booking / appointment

3.3 Requirement Analysis and Collection

In this application we need some specific requirement hardware and software configuration. This application almost work in all configuration.

Hardware required configuration:

- Processor: Core i3 or above
- RAM: 4.00 GB or above
- Hard Drive: 250 GB or above
- I/O Device: Mouse, Keyboard, Monitor

Software required configuration:

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- Operating System: Window10 or above
- Tools: VSCode or Pycharm and Web Browser
- DB: HeidiSQL 10.2
- Framework: laravel 8
- Server: Local host

Following requirement:

- Proper Data accuracy
- Admin Dashboard panel for control
- Work Efficiency
- Manual data entry minimized
- Use minimum time required.
- Used friendly UI
- Effective process

3.4 Design requirements

- Login and Registration
- Admin panel
- Guardian/Student /user's panel
- Teacher user's panel
- Admin's panel, Teacher list

3.4.1 Features

In this application we add this features. The main features are:

- Home page
- Profile
- Search system
- Add to favorite
- Like/Dislike

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- Booking/Appointment

3.5 Entity Relationship Diagram and Description

The relationship of entity sets how to store in the database an entity relationship diagram shown in figure 3.5. In software engineering, Entity Relationship Diagram (ERD) is most used to debug or design a relational database. Entities are represented by a rectangle-box and Attributes are represented by an ellipse and always connected by an entity. Relationships are represented by diamond-shaped box. Figure 3.5 exposed that Admin and user are entities, ellipse attributes and diamond-shaped box create relationship with admin and user.

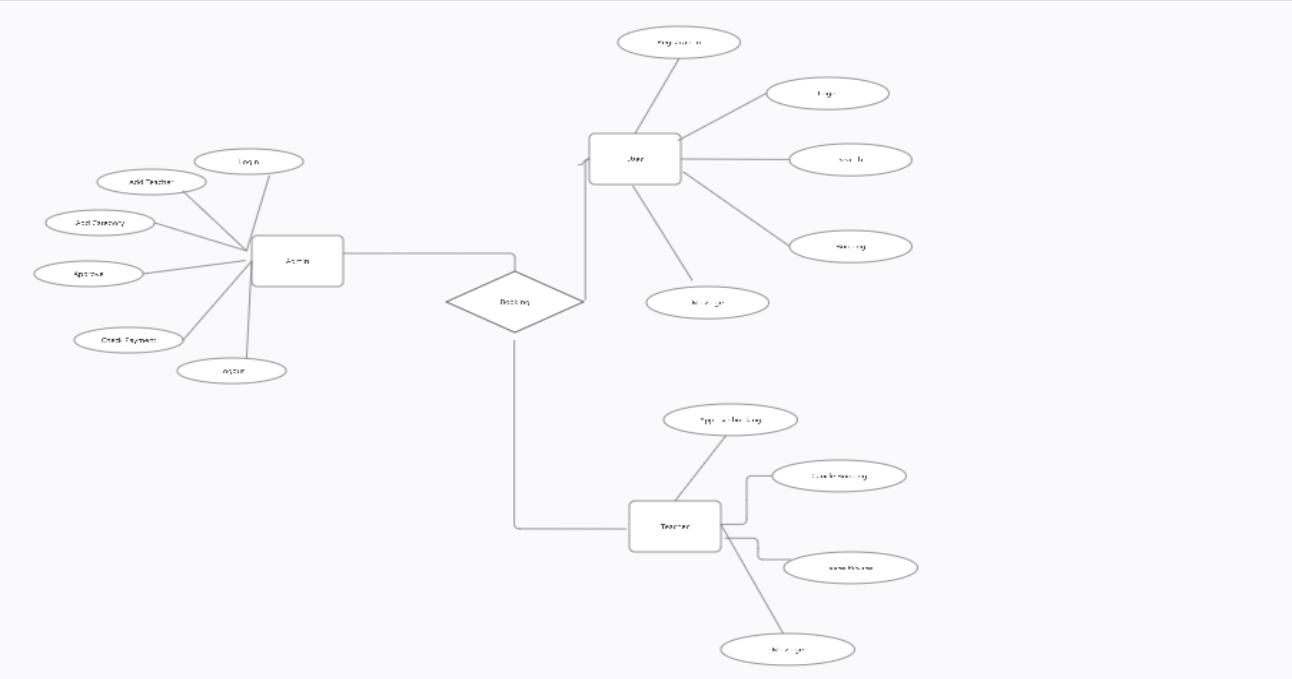

Figure 3.5: Entity Relational Diagram

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3.6 Flowchart

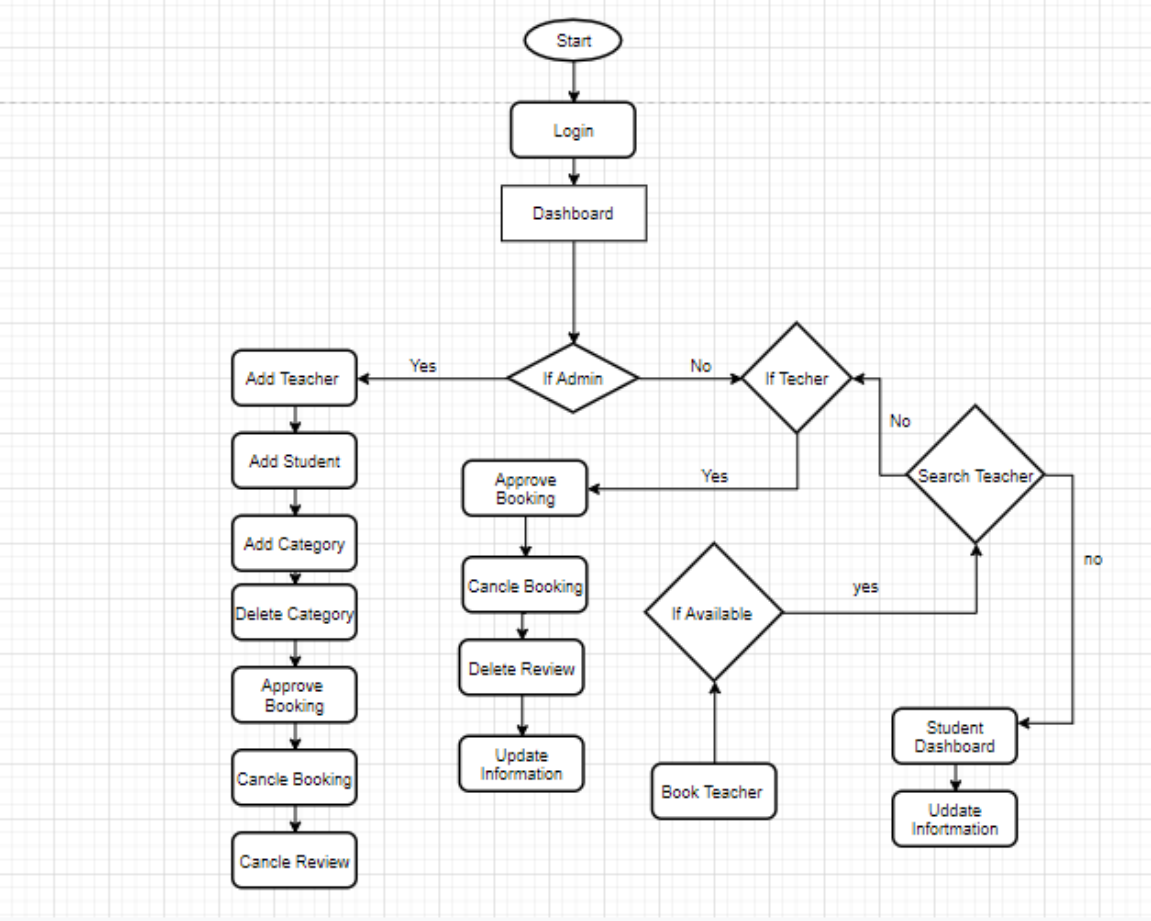

Figure 3.6 Flowchart

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CHAPTER 4
DESIGN SPECIFICATION

Here we try to simply implement the design system. To complete this system here we also give breif explanation about the execution and implementation of everything. Here we showed how we tested this application system after making its in representation.

4.1 Front-end or UI Design

The regular front-end or UI worked in the introduction layer. It outlined to the user it is just the best approach to interact with our framework. Front-end or UI configuration also play a fundamental role in the user experience of the user. The main objectives of planning a site or application is that how user effectively contact with the UI for their essential option. For instance, from Wikipedia or The assault overflow application which is jump to: navigation, search, show the default vital choice that the majority of the client needed. Front-end or UI advancement also called customer side or client site development is the act of provenance default. The developers or designers make constitutive segments and highlights that are by implication entranced by a user through a front-end application or framework.

For Front-end or UI design what we need:

- Need knowledge about information of Google material design
- Need a well review manager.
- Has to knowledge of Bootstrap, MD Bootstrap.
- About the knowledge of HTML, CSS or more points are required
- Need knowledge about PHP and its framework Laravel

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4.2 Interaction Design and UX

For assuring better customer experience, in 19 August 2015 bootstrap announce new version for web and mobile app developing which is called Bootstrap 4. Bootstrap original name is Twitter Blueprint. Bootstrap is free, responsive and open source open source framework. Anybody can learn that what ought to improve UX. Exhibit and practice implementation of how a client can connection with this design or UI.

4.3 Back-end Design

A back-end is a machine that the client never sees and the client has nothing to do with the back-end, yet it's continually running out of sight. Back-end connected with database for store data. The back-end is the code that runs on the server, control requests from the client, back end also contains the logic. There one type of back-end service for web-application which is an online backend system. And we develop this back-end system using PHP language and the Laravel framework. Most of the developers prefer PHP because the huge of resource of the PHP framework for web development.

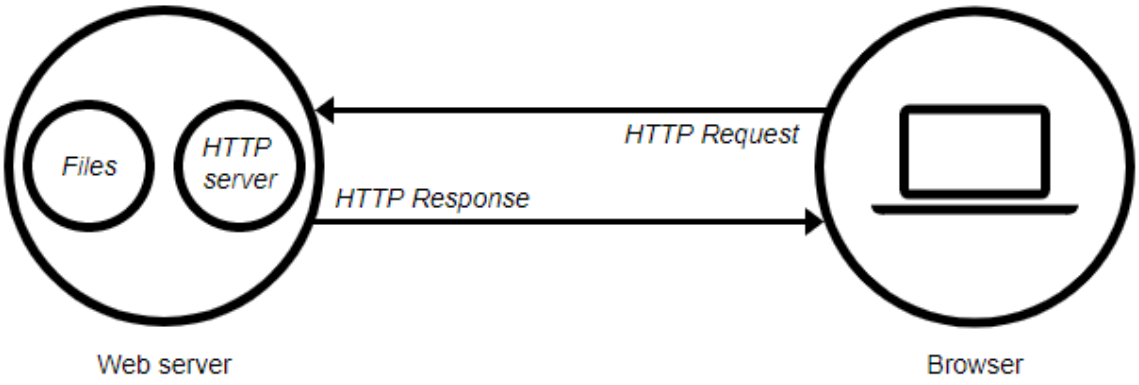

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Figure: 4.1 Connect Server to Browser

4.3.1 PHP

PHP is a multi-worldview programming language. Object-oriented programming and organized writing computer programs are full support especially suited to web development. PHP was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994. Being a particularly old language, in this way, if you know php, you have much more job opportunities. php is a famous language everywhere on the world for web devolopment.

4.3.2Laravel

Laravel is a free and open source PHP web framework, created by Taylor Otwell and intended for the development of web applications following the model-view-controller architectural pattern and based on Symfony.

4.3.3 Database

HeidiSQL is a free and open-source administration tool for MySQL and its forks, as well as Microsoft SQL Server, PostgreSQL and SQLite. Its codebase was originally taken from Ansgar Becker's own MySQL-Front 2.5 software

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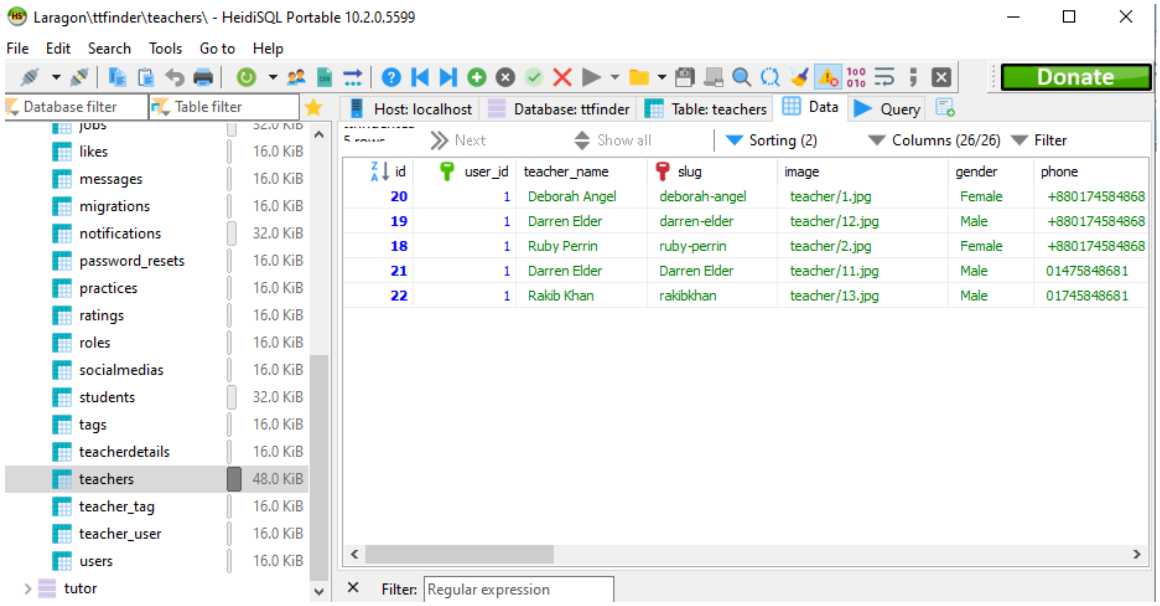

Figure 4.3.3: Database

4.4 Implementation Requirements

1. PHP (Laravel 8.0)
2. Html
3. CSS
4. Bootstrap (CSS Library)
5. HediSQL10.2

CHAPTER 5

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IMPLEMENTATION AND TESTING

5.1 Implementation of Database

The utilization stage is the spot you show the DBMS on the imperative segment, get best performance upgrade the database on that ingredient and programing stage. Make data set and load data. Make tables and the data set and store all the data.

The information base utilization steps are:

- SDLC–Agile Model
- Database Life Cycle
- imperative social event
- Logical Design
- Analysis and investigation
- usage

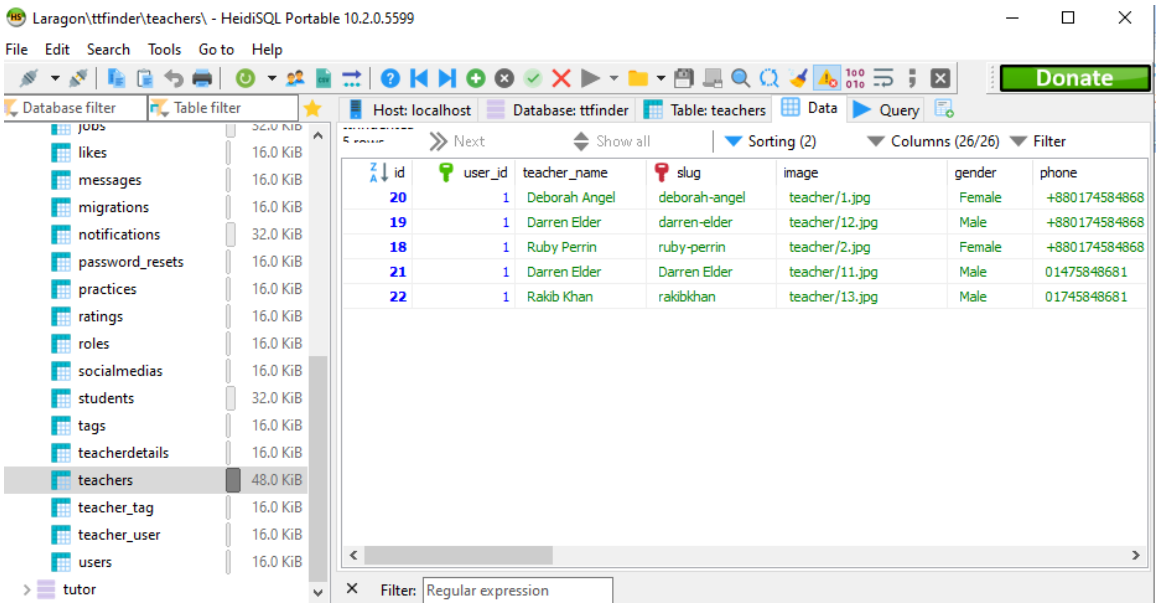

Figure 5.1.1: Implementation of Database

5.2 Implementation of Front-end Design

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Application of front-end picture called client side is the demonstration of making HTML, CSS and Bootstrap for web application. The customer can undoubtedly observe and collaborate. We used HTML, CSS for the front-end or UI but we also used bootstrap to get responsive design. Front-end display user information and store in database. First analysis user form to make friendly interface for users. The objective of establishing an application configuration is to guarantee that when the customers or clients application they see the information in an association or something different that is definitely not simple to peruse and sufficient.

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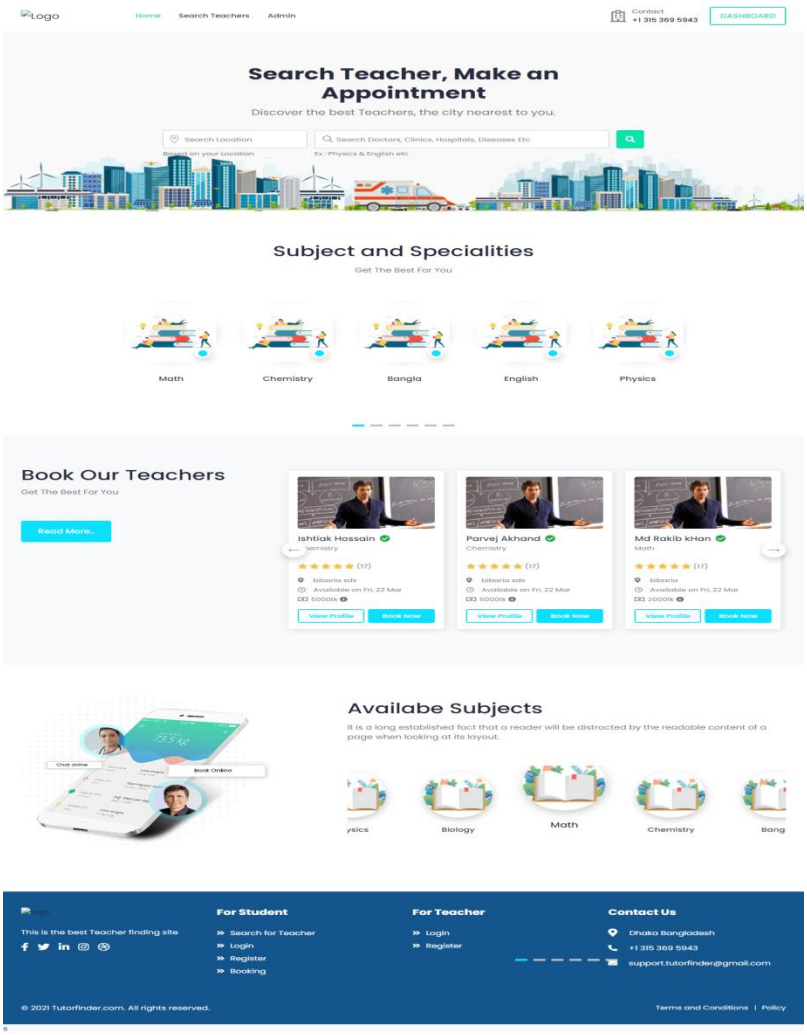

Figure 5.2.1: Front-end Design

5.3 Testing Implementation

Implementation is the plan with respect to setting an action for the schematic arrangement. Before we complete, the provision commitment all things considered. Testing these activities decided inside the provision. Test content is furthermore wont to delineate the headings to a check redaction device. A mechanization content comprises of a very programming idiom that the hardware can get it. The tests that are required to be run actually as basic using a check execution hardware are known as manual test content. The test ways or test objects are then outlined into a check execution setup that

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demonstrates that techniques are to be run introductory a type of superscript. Making the test system is another probability to arrange the tests, to guarantee that the simplest testing is finished inside the time accessible.

5.4 Test Results and Reports

The test reports are considered to imitate testing results officially, which supplies a scope to evaluate testing results rapidly. It's a report that records information got from measurement explore during a figured out technique, portrays the natural or working conditions, and shows the assessment of check results with objections. Thus, at the end, we will do the results on the grounds that the advantages of basic use testing to the end whenever we have described the overall designing for association challenge, the issue is then the best approach to design the arrangement of its events to make them accessible to creators of UIs. The correspondence will notice in all respect the spot. Affiliation is that the gratitude to building a structure dynamic and purchasers. It's exceptionally important to make a structure natural and that we similarly focus on. As referred to previously, we moreover incorporate somebody among a type of components to collaborate our structure. I have arranged our system as easy to realize that purchasers will satisfy to go to our site. I'm demonstrating the strong level of close organization consideration in our composting, and utilization.

Result 1:

Function	Description	Action	Result	Status	Final
Admin	Login	Valid User id and Pass	True	Success	Passed
Normal User	Login	Valid User id and Pass	True	Success	Passed

Table: 5.4.1: Result

Result 2:

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Function	Description	Action	Result	Status	Final
Admin	Login	Invalid User id and Pass	False	Not Success	Failed
Normal User	Login	Invalid User id and Pass	False	Not Success	Failed

Table: 5.4.2: Result

Result 3:

Function	Action	Result	Status	Final
Admin	All Control	100%	Success	Passed
Normal User	User Specified work	100%	Success	Passed

Table: 5.4.3: Result

5.4.1 Home page and app navigation

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Figure 5.1 indicated the home page of House tutors. Furthermore, figure 5.2 demonstrated the application navigation alternative for clients can undoubtedly get to and furthermore add or eliminate items quantity.

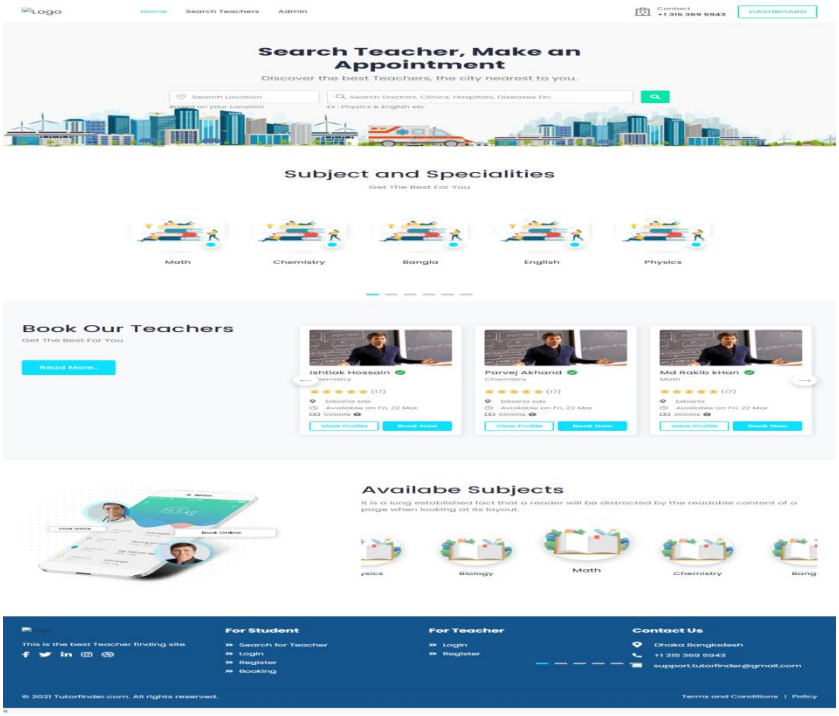

Figure: 5.1: Home page

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5.2 Booking Page

Figure 5.2 User can add teacher for booking

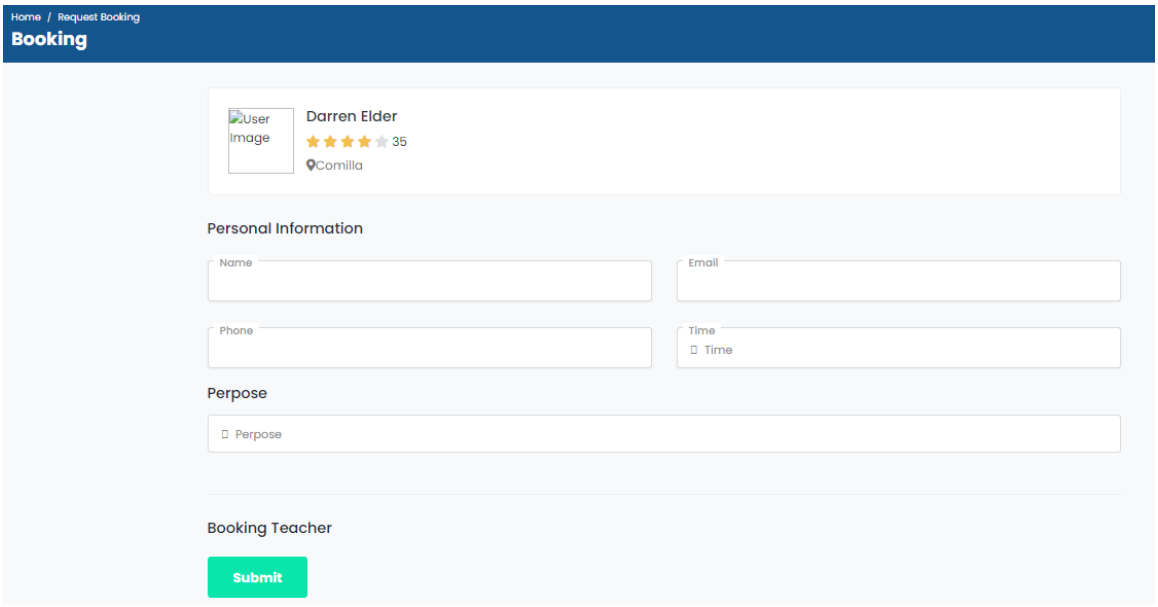

Figure 5.2: Booking page

5.3 Search and Teacher Details Page

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Figure 5.3 Guardian can look through his/their number one thing and in figure 5.4 client can see the detail of the item.

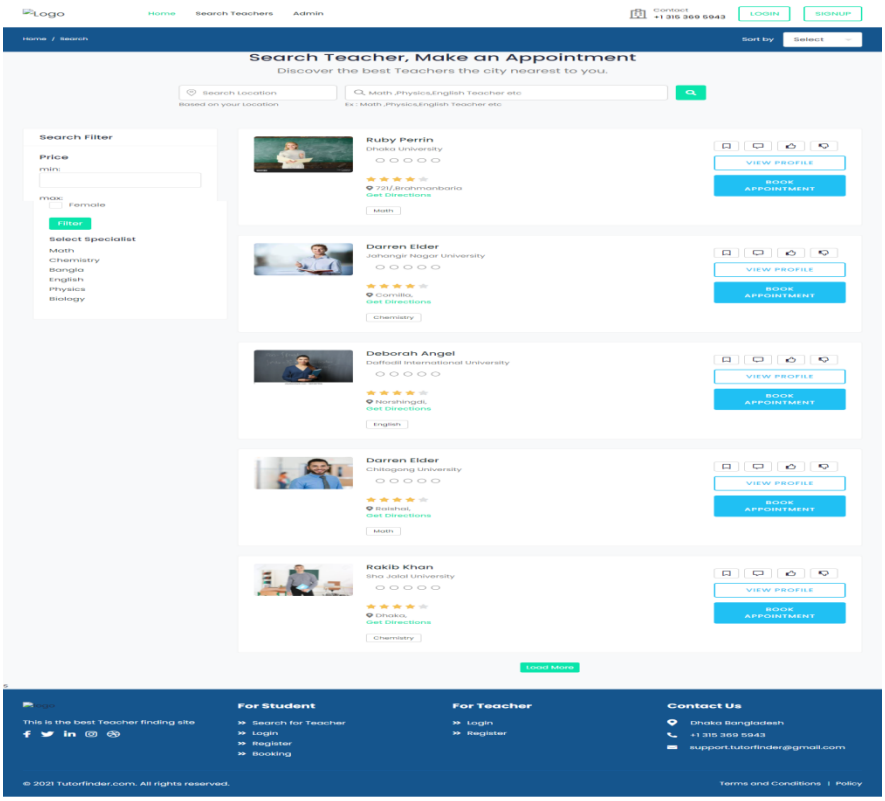

Figure 5.3: Search Page

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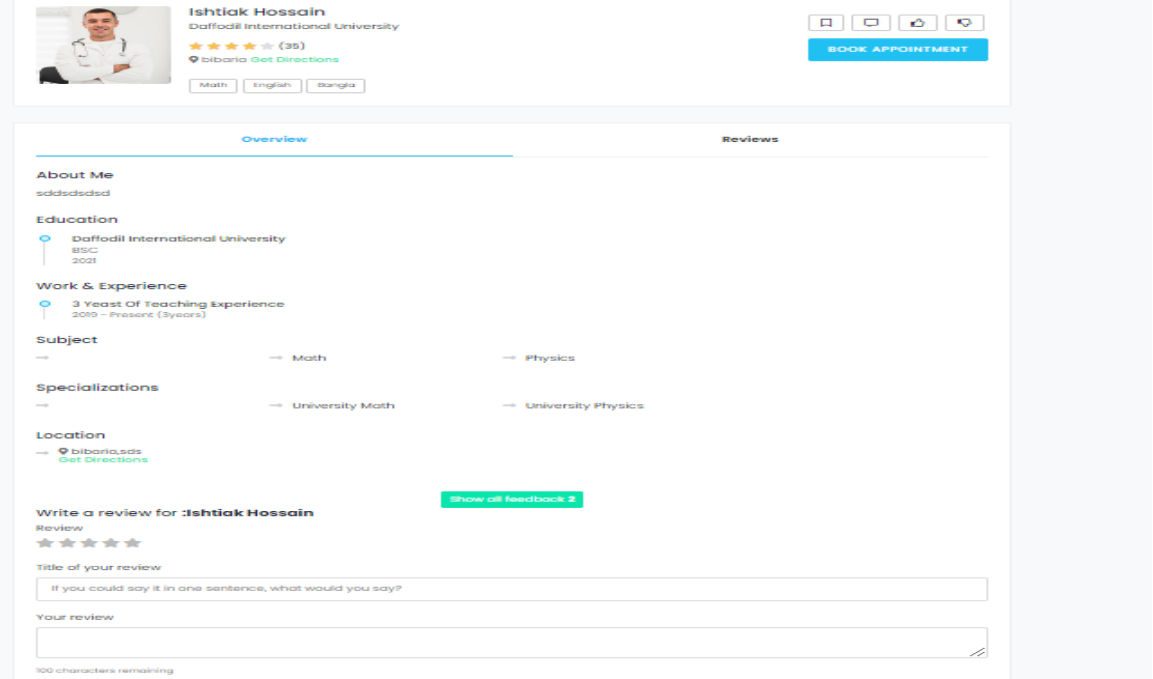

Figure 5.4: Teaceher Details Page

5.4.4 Sign up and Login

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Figure 5.5 exposed the sign up option for users must be give a name, email, And registration as a Teacher or student and at least 8-character password. What's more, figure 5.6 uncovered that client can login utilizing their beforehand join. User must be choose login role for full access this application.

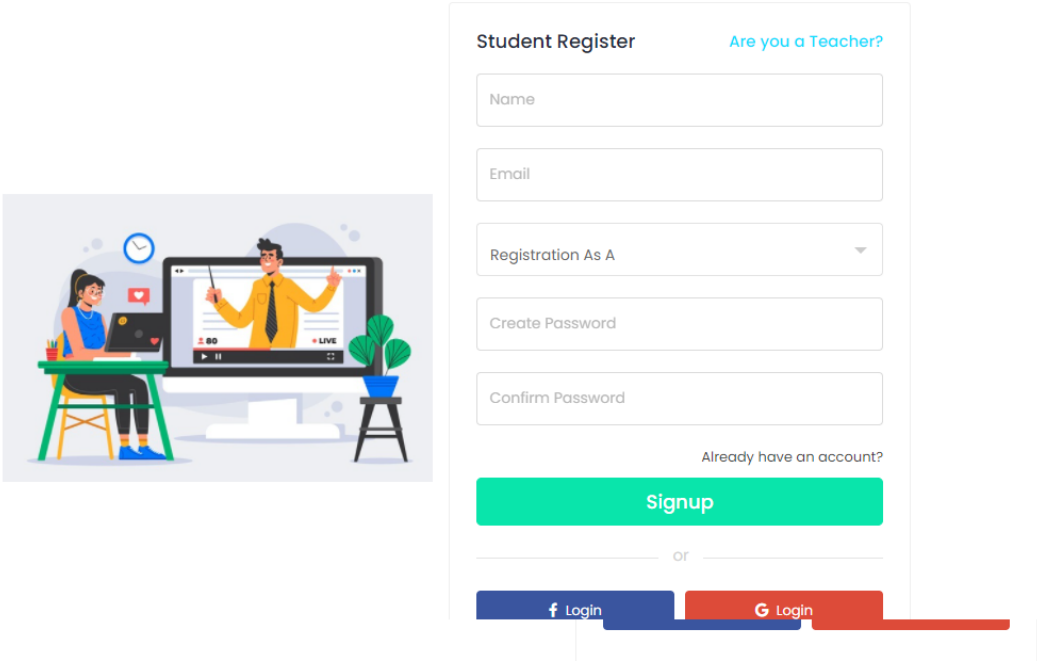

Figure 5.6: Sign up page

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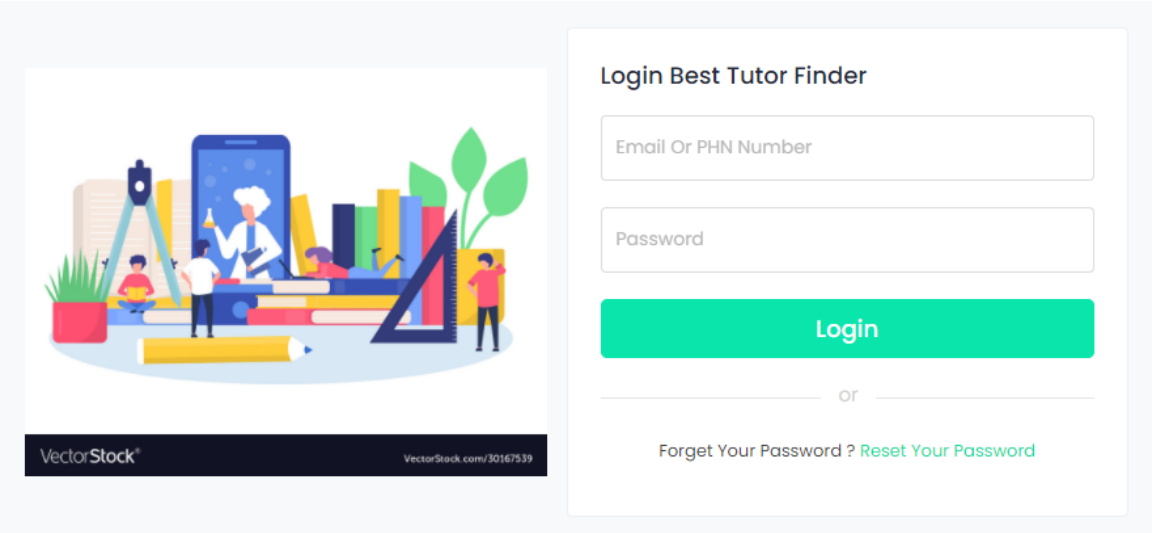

Figure 5.6: Login Page

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5.4.5 Teacher Dashboard

Figure: 5.7 Here the teacher can see their dashboard 5.8 here teacher can view their All appointment list

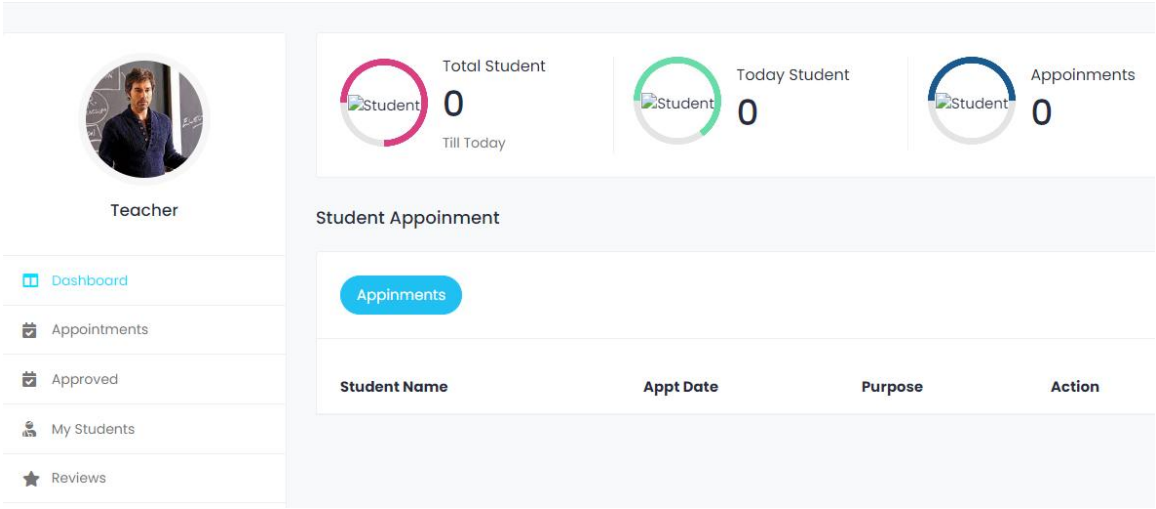

Figure 5.7 Teacher Dashboard

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Teacher Appoinment List

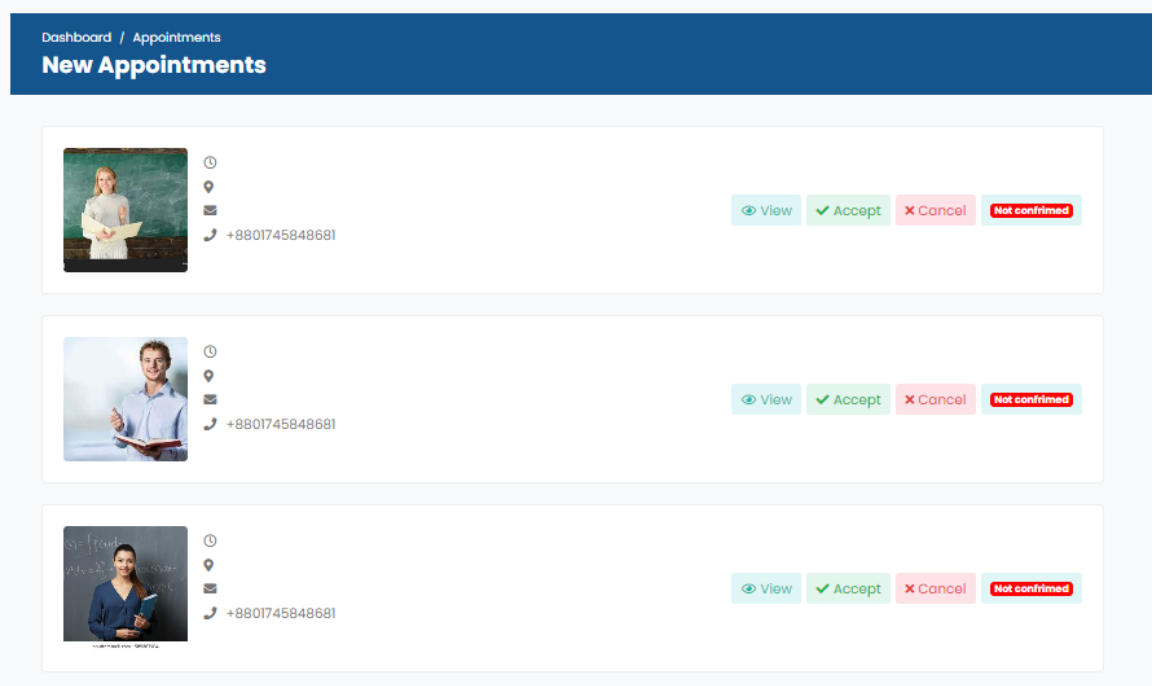

Figure 5.8 Teacher Appoinment List

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Teacher All Students

Figure 5.9: teacher will able to to view all students

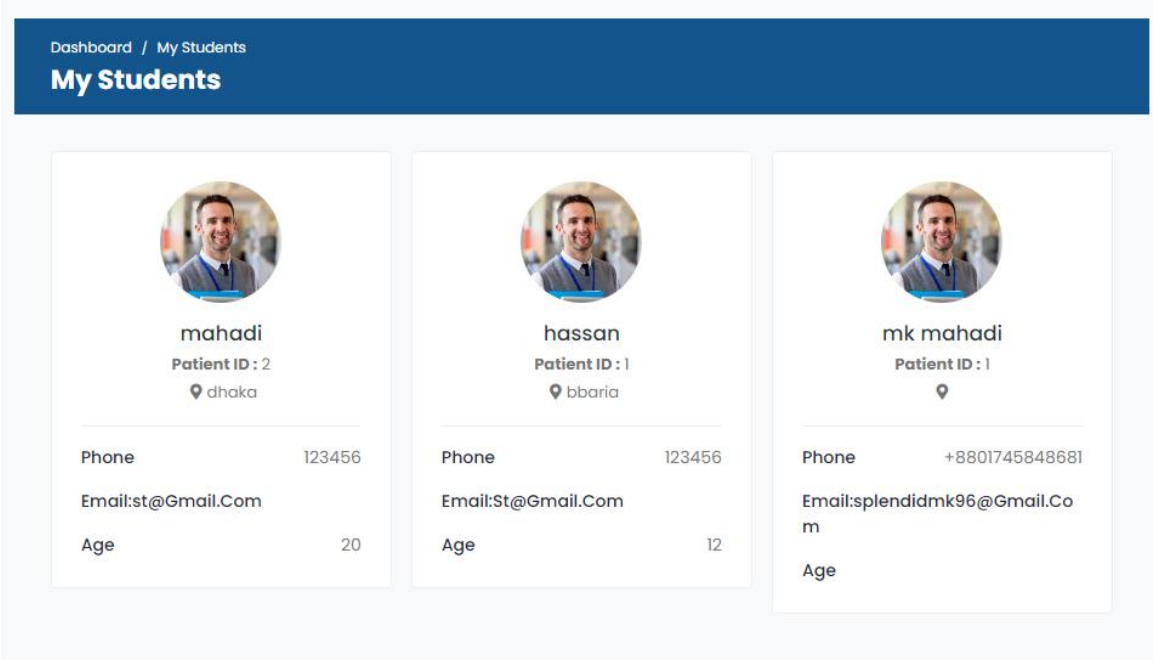

Figure 5.9 Teacher All Student

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Teacher Review Page

Figure 5.10: in this figure teacher can view all review or coments to him

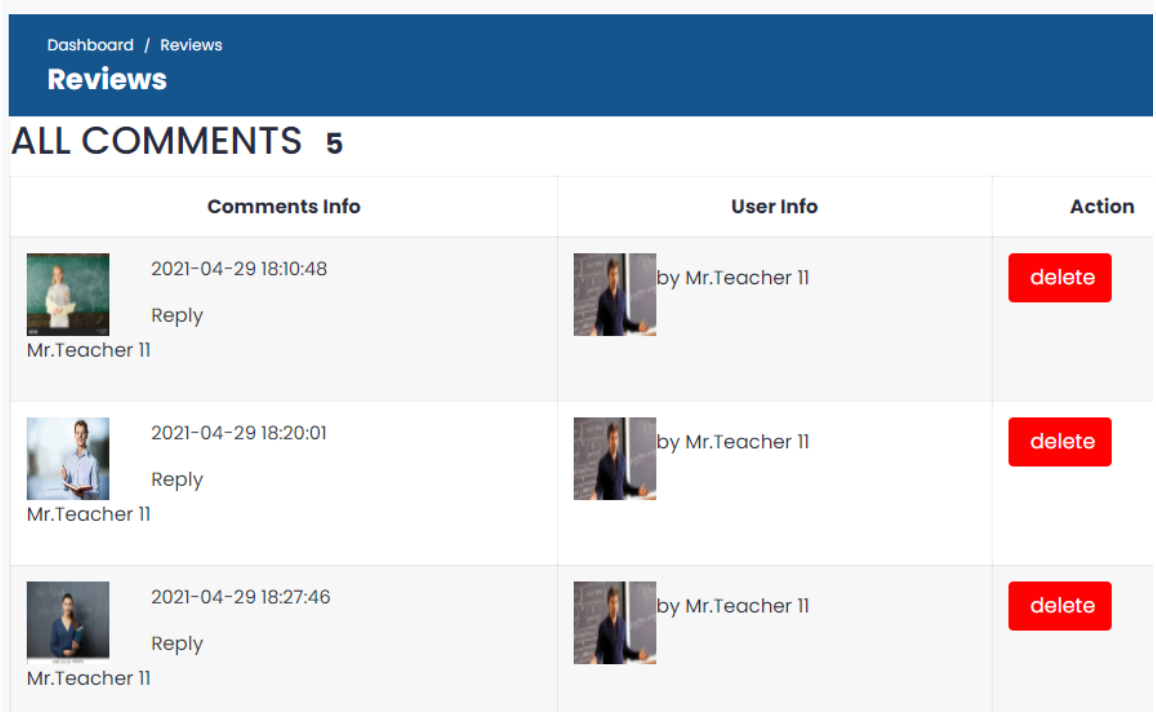

Figure 5.10 Teacher Dashboard

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Teacher Details Add

Figure5.11: teacher can update their information

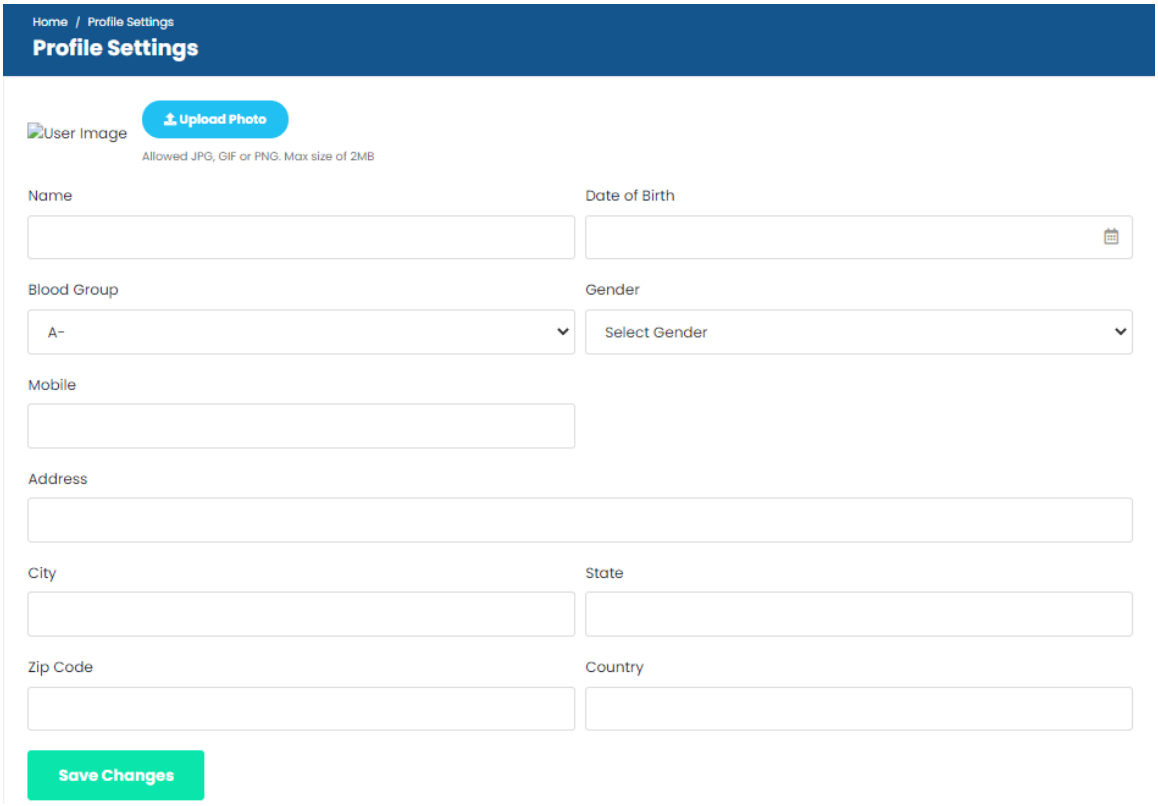

Figure 5.11 Teacher Dashboard

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5.4.6 Student Dashboard

Figure5.12 : after login as student user will redirect student dashboard

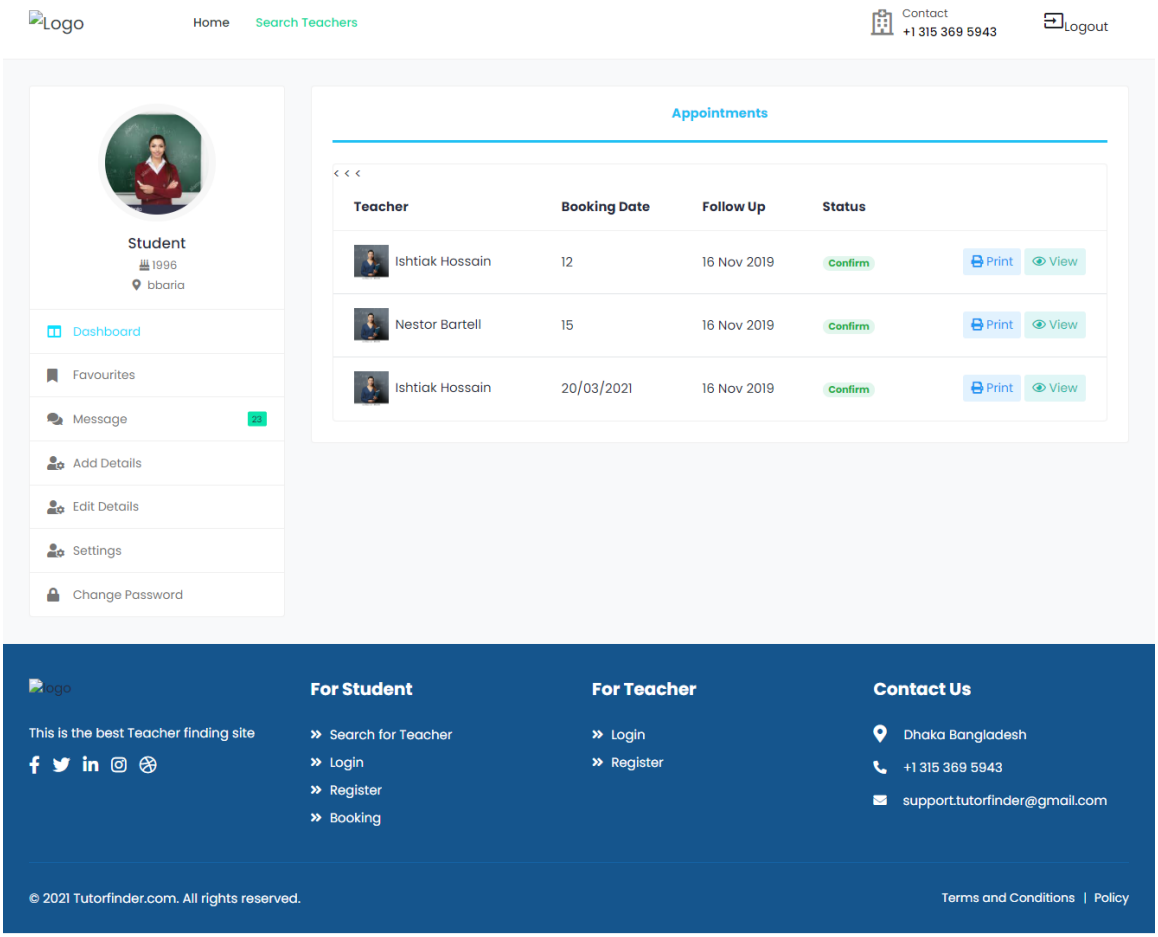

Figure 5.12 Student Dashboard

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Student Favorite

Figure5.13: student can view the favorite list which he/she add a teacher as favorite

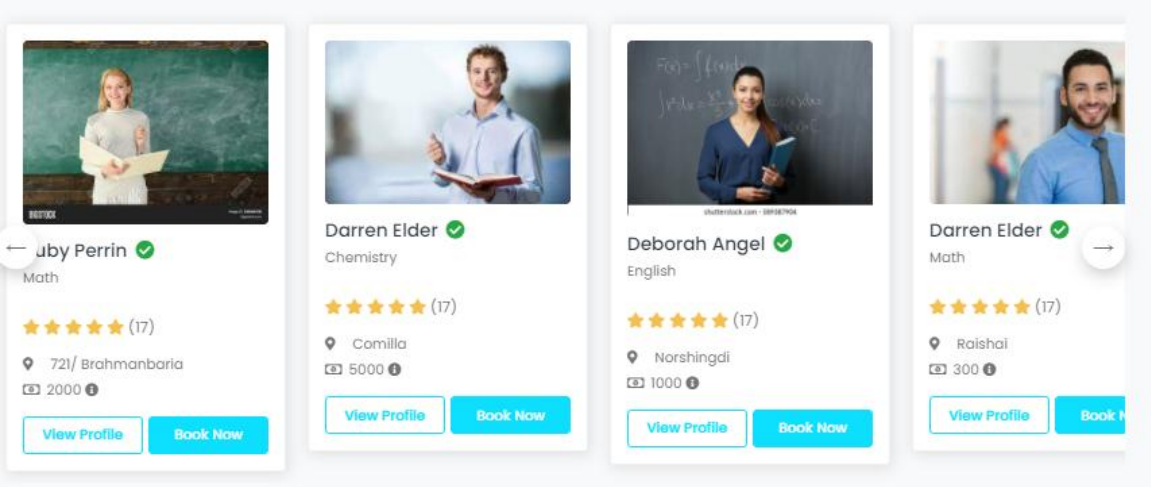

Figure 5.13 Student favorite list

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Student Details Add

Figure 5.14: here student can add their full information

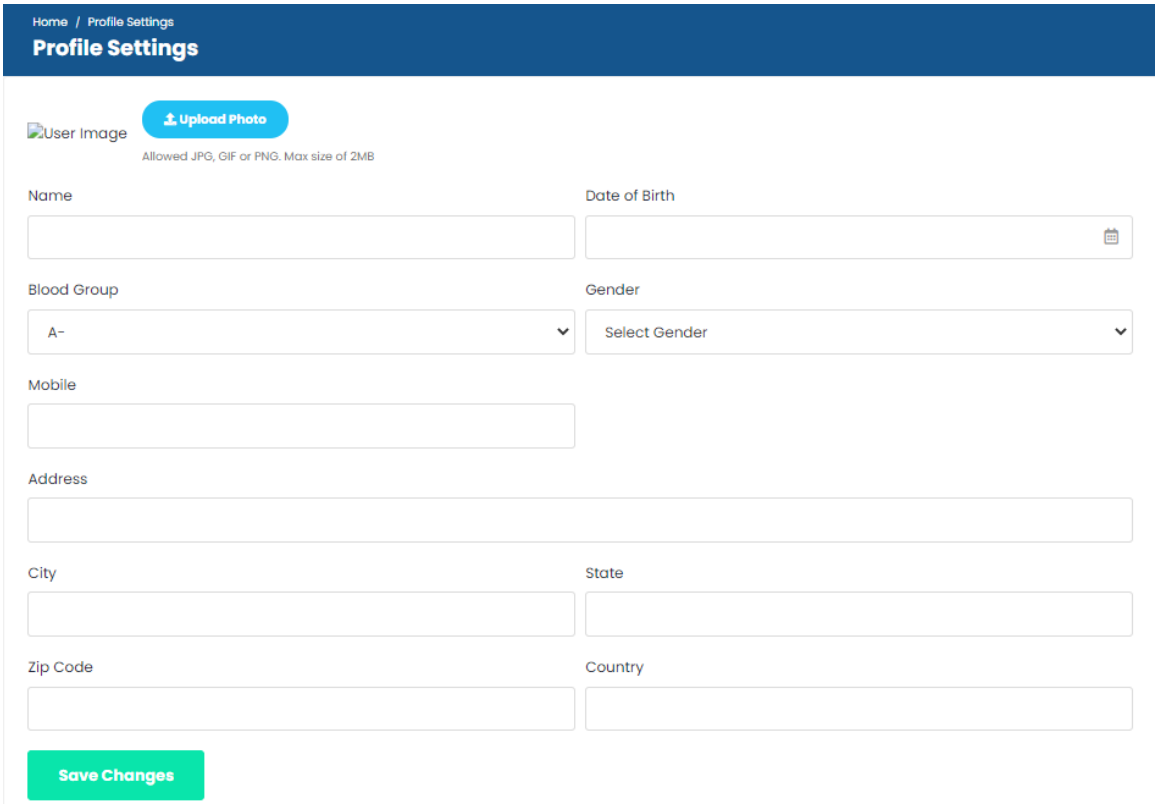

Figure 5.14 Student Details Add

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5.4.7 Admin Login

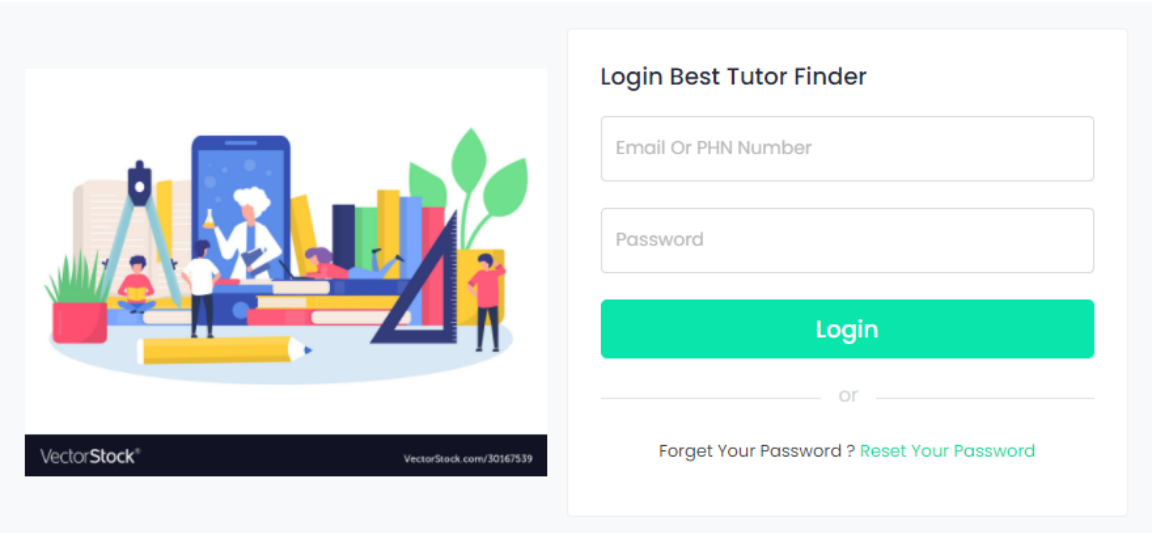

Figure 5.15: Super Admin login page

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5.4.8 Admin Dashboard

Figure 5.12 after login admin can access in admin dashboard can edit his/her profile. In figure 5.13 admin will see how many teacher have in this application and their status

figure 5.13 admin will see how many student have in this application and their status

figure 5.13 admin will all the information status at glance

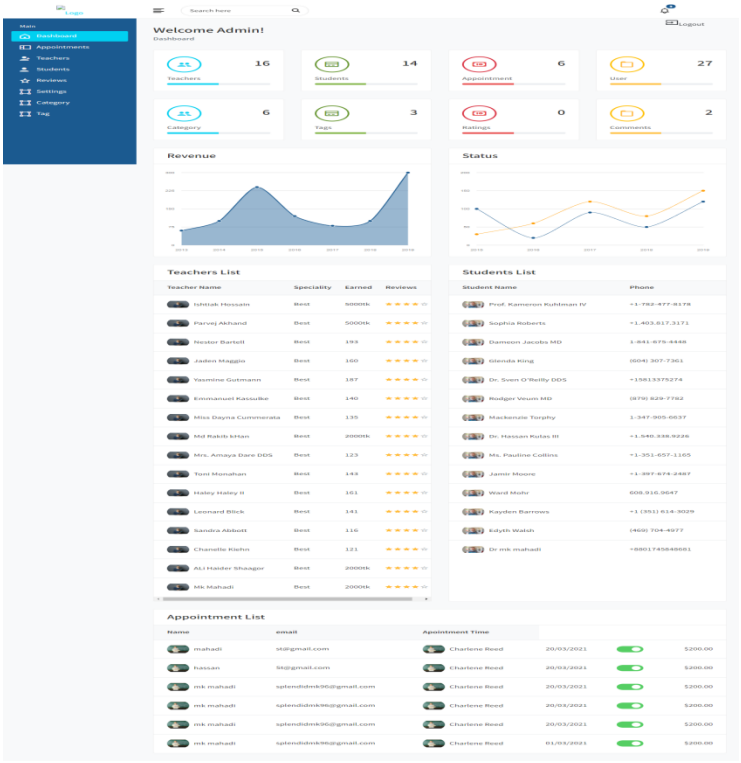

Figure 5.16: Admin Dashboard

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5.4.9 Admin Teacher List

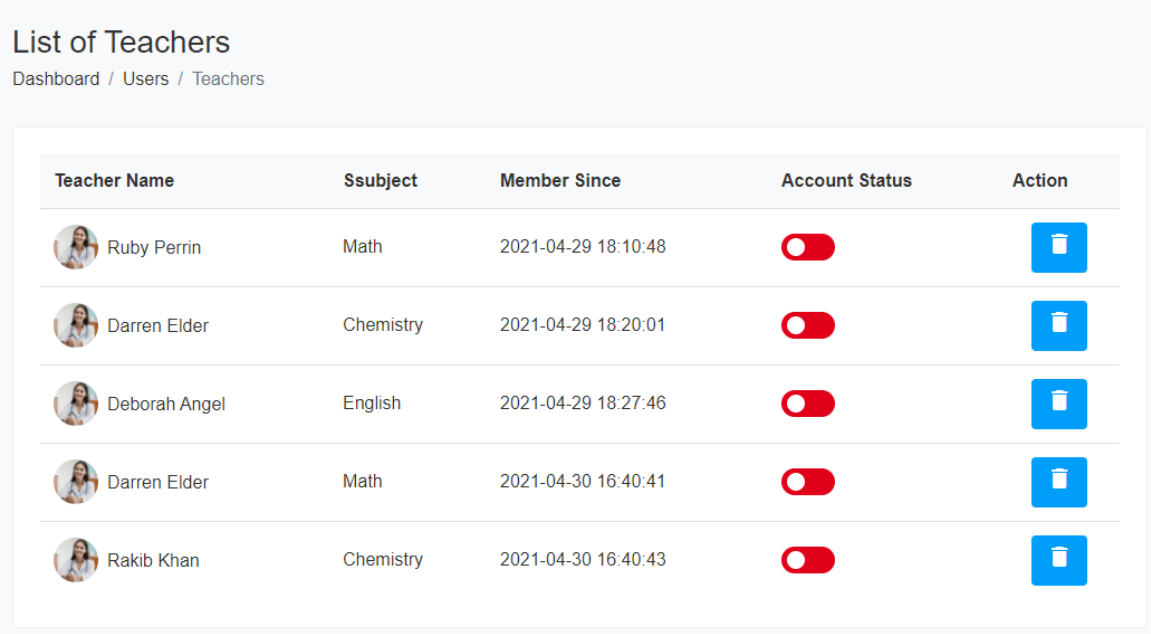

Figure 5.17: Admin Teacher List Page

Admin Student List

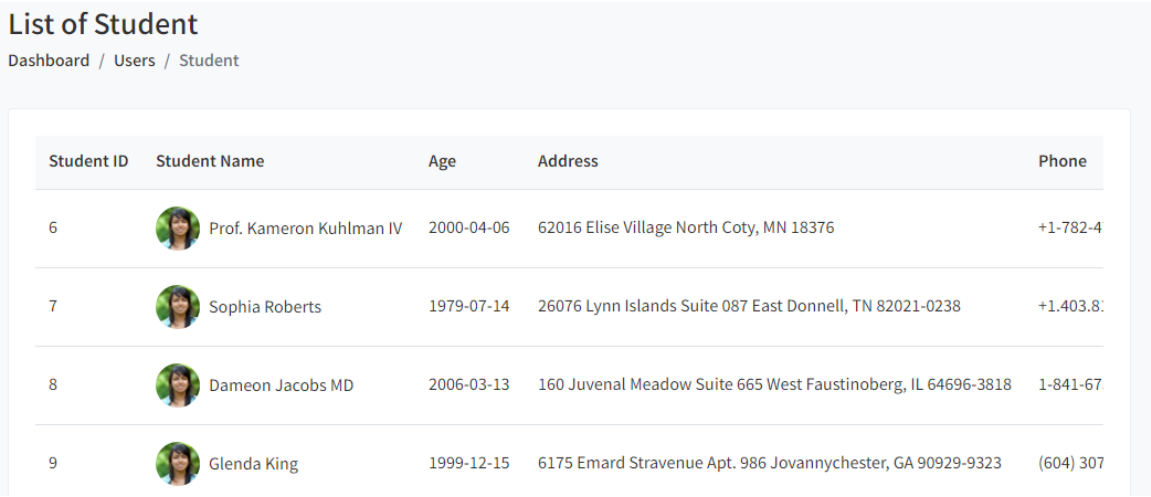

Figure 5.18: Admin Student List Page

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5.4.11 Admin Notification Page

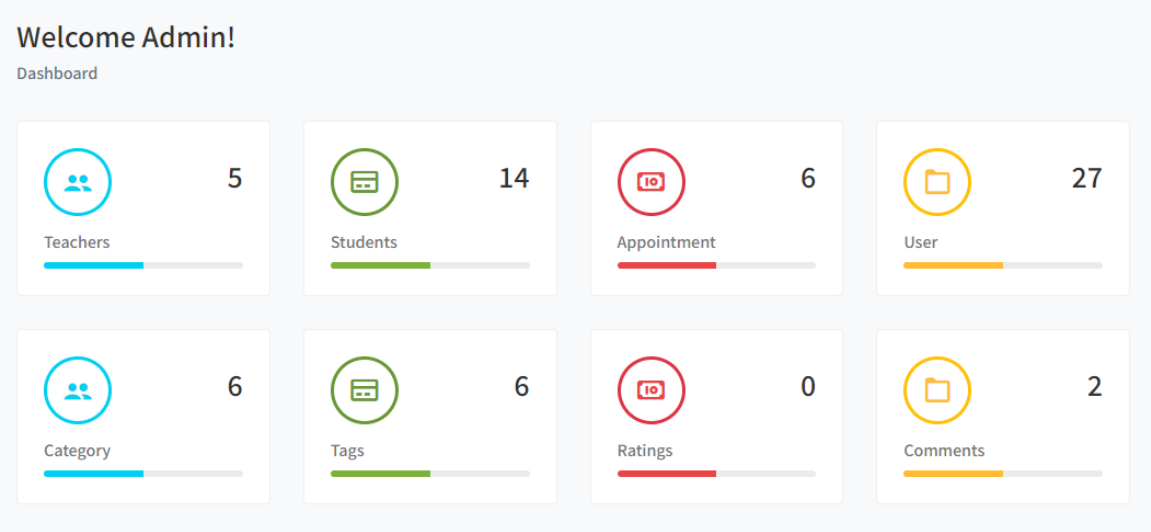

Figure: 5.19: Admin Notification Page

5.4.10 Add Category

Figure 5.20 exposed the add category option must be given pcategory name ,image, and d and figure 5.21 admin can add and delete and edit category also.

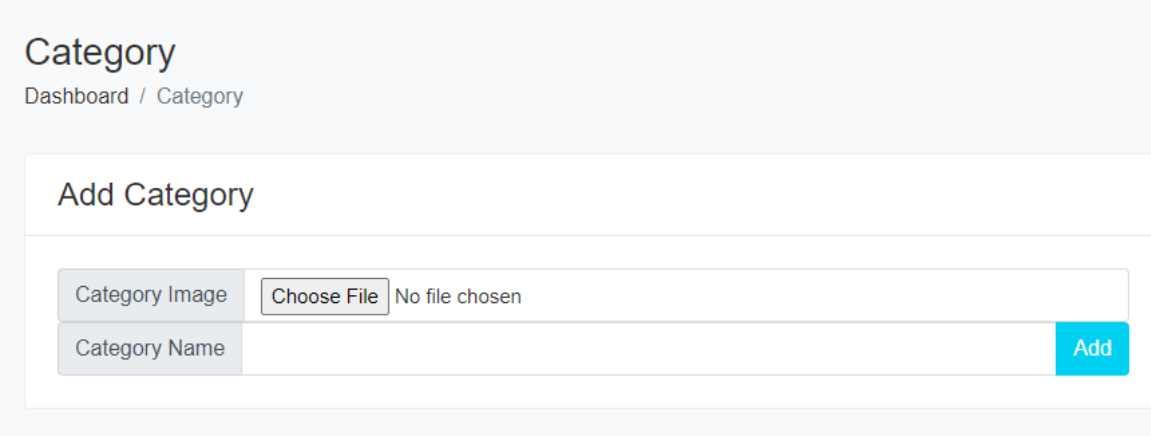

Figure 5.20: Create category Page

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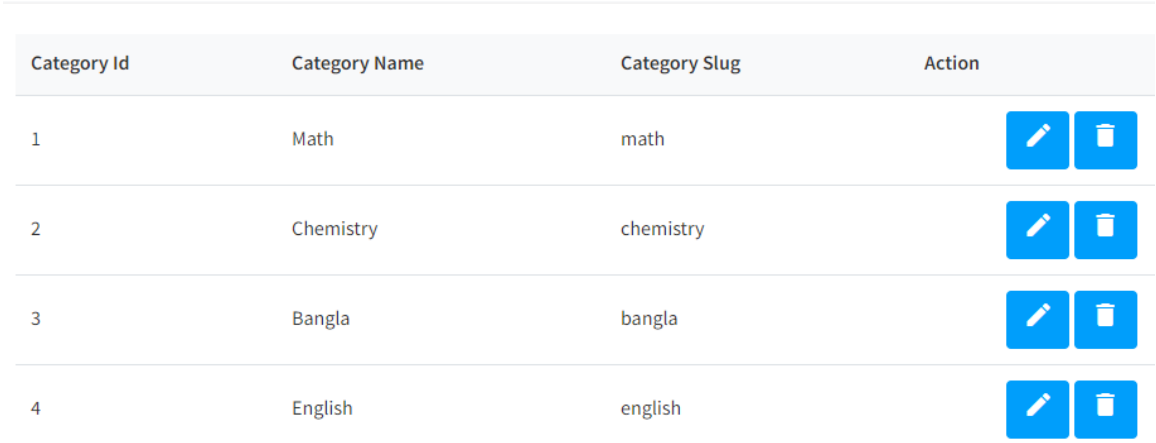
5.4.12 Admin Category Data Table

Figure 5.21 admin can see customer list table and category list table. Admin can add or delete category item from category list.



Category Id	Category Name	Category Slug	Action
1	Math	math	
2	Chemistry	chemistry	
3	Bangla	bangla	
4	English	english	

Figure: 5.21: Category Data Table

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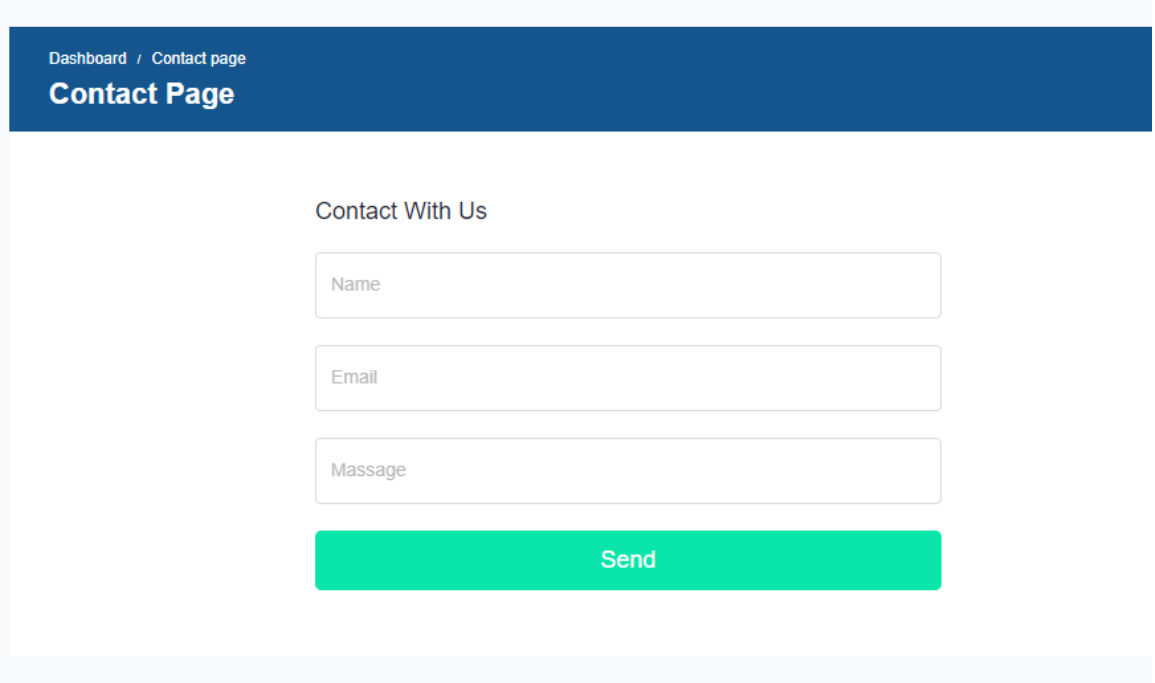
5.4.15 Contact and About Page

.



q

Figure 5.22: Contact Page

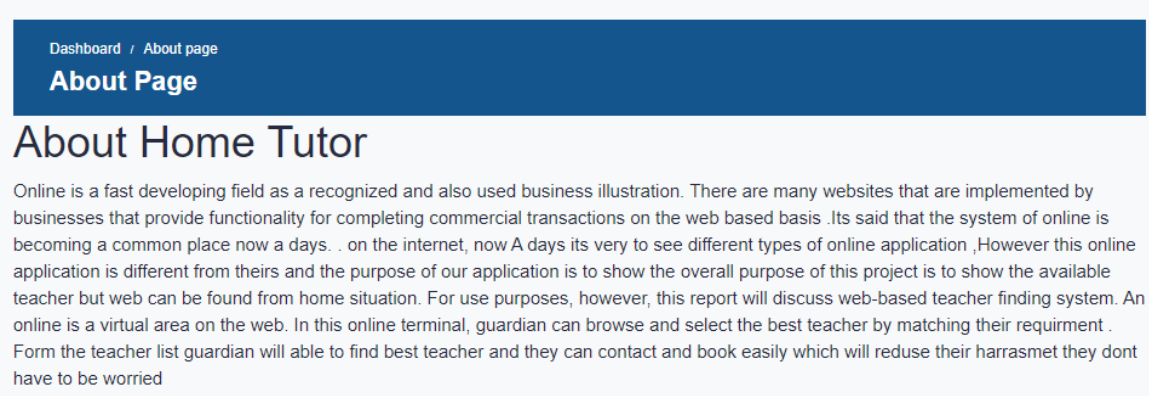


Figure 5.23: Application about Page

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CHAPTER 6

IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Society

House tutors is an online teacher finding application that helps anyone to find the best Teacher like Male/Female Teacher, Subject wise Teacher area wise price wise etc. from anywhere any time. House tutors application save our time and also reduce harassment. In our country there a number of free classified websites and an online Tutor finding website.Million of people search online time to time. Day by day its growing House tutors Make our life harassment free its helps to make our socity mordanized

6.2 Impact on Environment

Our application is online based application .its havn't any relation with environment we dosn’t use any natural resource it dosn’t emit any pollutants .that’s why House tutors not any impact on environment

6.3 Ethical Aspects

House tutors cares about online privacy. Conduct options ethical qualities, for example, reasonableness obligation regard and trust, etc. that refer to ethical aspects. Basic qualities that make amicability are trust, geniuses, obligation regarding, and decency. Polished methodology in groups, which prompts venture achievement. In this project House tutors takes care of privacy like web tracking, web spoofing, email spamming and phishing, etc.

6.4 Sustainability Plan

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Sustainability refers ability or quality of comes that continue way in the future. The main factor is the way to ensure the quality of the appliance way into the future. We attempt to place our efforts to form it helpful and guarantee the quality of service in way future. Our House tutors needs to finish eventually however the project impact ought to continue. We have maintaining our project outcomes, and goals meaning. It will have a good positive.

Given below:

- Apps bug fixing
- Update code immediately for consistent quality.

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CHAPTER 7

CONCLUSION AND FUTURE SCOPE

7.1 Discussion and Conclusion

Finally, our application ready to utilize. We expense a lot of time on this project work. This application is specially made for harassed guardian. House tutors is secure web-based application. House tutors provide extra features for guardian. Easily guardian will get his/her teacher on hand. This web-based application easily stores necessary data in the database, and any user/guardian easily complete his/her registration, select a teacher, and also view the teacher. Our application is the solution of harassment of guardian. House tutors makes the easier for everybody.

7.2 Future work and Further Development

In this system, we will add more features and facilities. To make it more user friendly there have many future scopes. The further Extensions are given below:

- Improve User Interface (UI)
- Bring more features
- Add Banking system
- Improve Mobile Banking System
- Booking Tracking
- Google Map API
- Video class room system

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APPENDX

Appendices A

Projection Reflection**:** From spring-20 semester we started our journey for make a House tutors for public. We followed the project for improvement to implement and monitor our invention, and were able to reach our aim.

Appendices B

HTML: Hypertext Markup Language.

CSS: Cascading Style Sheets.

UX: User Experience.

UI: User Interface.

SDK: Software Development Kit.

SDLC: The system development life cycle.

DBMS: Database Management System.

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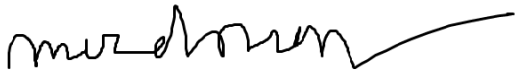
Plagiarism Checked by **Md. Riazur Rahman** **Assistant Professor**	

A Web-based System for House Tutors

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