

HOME TUTOR

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

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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

MAY 2019

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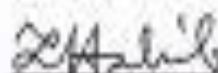
This Project titled "Blame Tutor", submitted by Al-Amin, ID No:151-15-4924, Nayeemul Karim, ID No:151-15-5410, Tasbar Ghosh, ID No:151-15-4936 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the 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 May 3, 2019.

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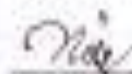
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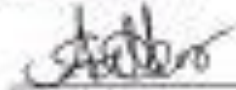
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Abdus Sattar**, Assistant Professor, 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 award of any degree or diploma.

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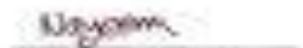


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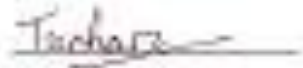


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Finally, we must acknowledge with due respect the constant support of our parents.

ABSTRACT

With the development of time and information technology, it has become more practiced to use websites for discovering things. This project “**Home Tutor BD**” is a website developed for the greater support of the mass people. There are lots of students searching for home tutors and lots of teachers searching for students. By the help of this website students and teachers can easily register an account completely free. Teachers have to give their details information when they register in this website for students to find teachers as desired. The website has a user friendly user interface. Mass people will be easily get the precise information they need. The project is developed with the help of HTML. With this website, we hope the people will be much benefitted and find what they want very easily. They don't have to ask people and roam.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

In Bangladesh there are lots of students searching for teachers with good skill and qualifications. There are lots of teachers also searching for students. But both of them can't find what they want. Lots of students and teachers are suffering for this problem already. We want to give them online solution for this problem. By using our website they can easily get rid of this problem.

1.2 Motivation

Day by day the students are increasing. There are also lots of educated unemployed peoples searching for jobs. Students are searching for qualified teachers. By using our web site this educated unemployed peoples can find students and teach students and earn money easily. By this students will also get what they want. This website can remove unemployment also.

1.3 Objectives

- To find students and teachers easily.
 - Both of them have to give their information in details.
 - Save effort and time for searching.
 - Use category, which is one of the main feature in the implementation of this project.
 -

1.4 Expected Outcome

This website will have lots of categories. Students can find music teacher, dance teacher, religious teacher, sports teacher and also lots of category by this application. Our goal is to reach this website every corner of Bangladesh. Users can use the app and access all its features. While the admins can add new category and their important information.

1.5 Report Layout

Chapter 1: Introduction

In this chapter we have discuss about the objective, motivation and expected outcome of our project. Next follows the report layout.

Chapter 2: Background

Here we also discuss about the state of our project, related work, similarity the other candidate system and the challenges of the project.

Chapter 3: Requirement specification

Here we discuss about the functional requirement and non-functional requirement which was used in our project.

Chapter 4: Design Specification

Here we discuss about all the design of our project like front-end design, back-end design, Interaction design, UX and the implementation of our requirement.

Chapter 5: Implementation and Testing

Here we discuss about the database and its implementation, front-end design and interactions, test result of that project.

Chapter 6: Conclusion and Future Scope

Future development is discussed in this section which is more important to make government commitment to the vision “DIGITAL BANGLADESH”

CHAPTER 2

BACKGROUND

2.1 Introduction

One of the most important things of a project is background. If we want to finish a project properly we have to learn about the background issues. We have to study more and more about related or not related topic and research articles. Background information of a project has the relevant and related topics of a project. It also discusses all of the problem and explanation. It helps that person who read that paper with all the logical idea.

2.2 Related Work

There are some applications we found which are created on the basis of our project but not same as ours. Some examples are, tutor.com[1], bdtutors.com[2], desh tutor[3], care tutors[4].]. Here are the front views of their websites.

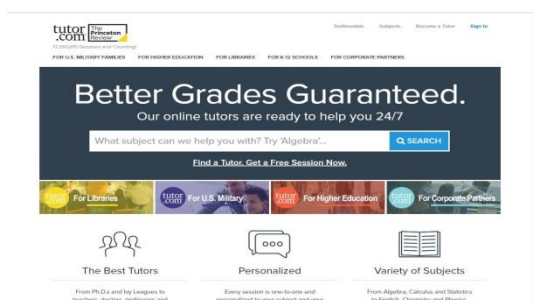


Figure 2.1: Tutor.com

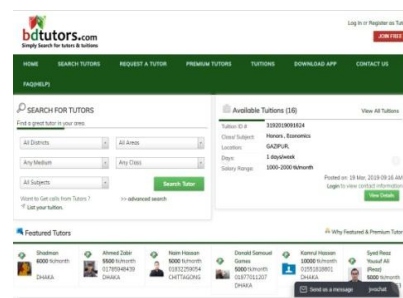


Figure 2.2: bdtutors.com

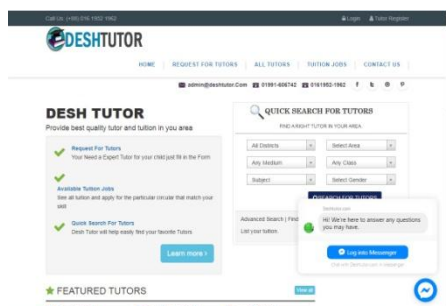


Figure 2.3: Deshtutor

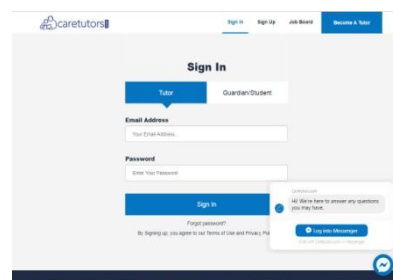


Figure 2.4: Care tutor

2.3 Comparative Studies

The other websites too helpful for peoples but in our country we have nothing like this. The complexities of finding perfect teacher are so hard. We modified that for everyone. We make a systematic framework which is more comfortable for new comers. We made a simple solution for major problem. But there have no security issue in our application. We want to improve our system with a huge number of resource-allocation. Our system is fully controlled by admin but in future we make some user efficiency for improving more.

2.4 Scope of problem

We faced some problem when we want to complete our project. Some problems are too difficult while others are so easy for solving. After solving all kinds of problem finally we got the proper system. Here some problem which we are faced to improve this system:

- To know the actual demand of students, what they look for
- To talk with the students for collecting their demand information
- To add category to our application
- To collect all the data for our database
- To make something special so that people get interested in our application and enjoy the interface

2.5 Challenges

To provide a best solution of city insider we have faced some challenges. Those are mentioned bellow:

- The feature and the UI design
- User friendly process
- Make ensure users security
- Adding embedded category to it
- Giving all useful information

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business process demonstrate (BPM) is a device for structure a streaming outline. It makes a model that shows the suitable stream of information from the begin to end. The ability of the venture can be portrayed by BPM. Fundamentally all the building ventures have a business procedure show. Prior to beginning crafted by execution of the undertaking, an appropriately created business process show helps the speed of work. A business procedure display adaptably present the venture to both the client and engineer.

In our venture the spots are the element. All the fundamental data of educators and understudies are sorted in the site. The site will get the ideal mentor front of the client after a legitimate inquiry. In any case, the client can explore through various areas of the site and get the required data independent from anyone else.

3.2 Requirement Collection and Analysis

It is vital for the smooth direct of work for any undertaking. The work can go cloudy in the halfway if the prerequisites are not broke down appropriately. Also, reciprocally, all the work and endeavors can go in vein. So to construct an effective undertaking, a fruitful necessity accumulation and investigation is an unquestionable requirement.

On our undertaking, prerequisite accumulation was a noteworthy part. We isolated our task into a few sections as we have different spots ordered in a few areas. We likewise needed to get in contact with some specific places face to face to discover the definite data. Subsequent to get-together the necessities we broke down them. What's more, got a legitimate walkthrough for beginning the usage of the venture.

3.3 Use Case Modeling and Description

An utilization case is a rundown of activities or occasion steps that characterizes the connections between and performing artist and a framework to accomplish an objective. In website and frameworks building it is essentially called use case demonstrating. According to the Unified Modeling Language, the client is called a performing artist, which can be either a human or another outside framework. [7] In this application, the clients (teacher, student) and the administrators will be the performer and the framework will give all the fundamental data of different places as they get to.

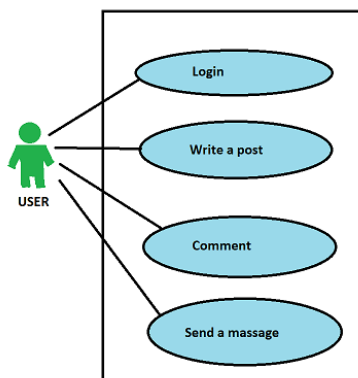


Figure 3.1: Use case diagram- login

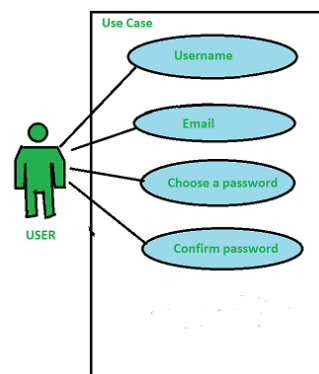


Figure 3.2: Use case diagram- register

Use Case Description:

Use case 01: Access hometutorbd.site

Primary Actor: Users

Precondition: Internet connection

Entry Condition: hometutorbd.site enter the following link

Event Flow: Click on various sections of the hometutorbd website

Exit Condition: Click the back arrow in the top left part

Use case 02: Search Any tutor

Primary Actor: Users

Precondition: Internet connection, search by category

Entry Condition: Click the search button

Event Flow:

Use case 03:The user search any category

Precondition: Click on the result page to view the tutor

Exit Condition: Click the back arrow in the top left part

Use Case 04: Make a post

Primary Actor: Users

Precondition: Internet connection

Entry Condition: Click on newsfeed

Event Flow: post your requirment

Exit Condition: Click the call end button

Use Case 05: Visit profile

Primary Actor: Users

Precondition: Internet connection

Entry Condition: Click the desire tutor profile

Event Flow: User is redirected to the desired tutor profile

Exit Condition: Click the back arrow in the top left part

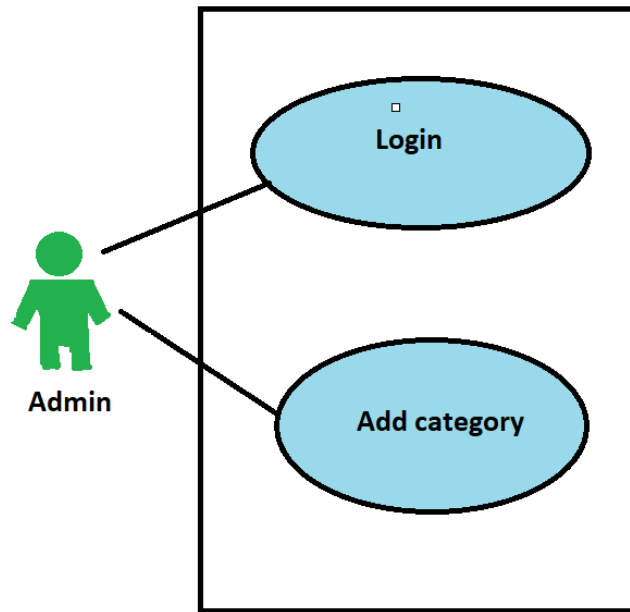


Figure 3.3: Use case diagram – Admin

Use case 01: Login

Primary Actor: Admin

Precondition: Internet connection, entering user name and password

Entry Condition: Click the Login button

Event Flow: The admin will give the email and password correctly to log in the portal

Exit Condition: Click the logout button

3.4 Logical Data Model

An entity relationship diagram (ERD) shows the relationships of entity sets stored in a database. An entity in this context is a component of data. In other words, ER diagrams illustrate the logical structure of databases [8].

The relationship of the entity sets of the database is shown by the entity relationship diagram (ERD). It can be said that, the logical structure of a database is illustrated by

the ER diagram. It goes deep to the database as much as possible and describes the data model. All the entities and relationship among them are included in the diagram. All the attributes of the entities are specified here along with the primary key [9] and foreign key [10]. In the following figure we have given the ER diagram of the application.

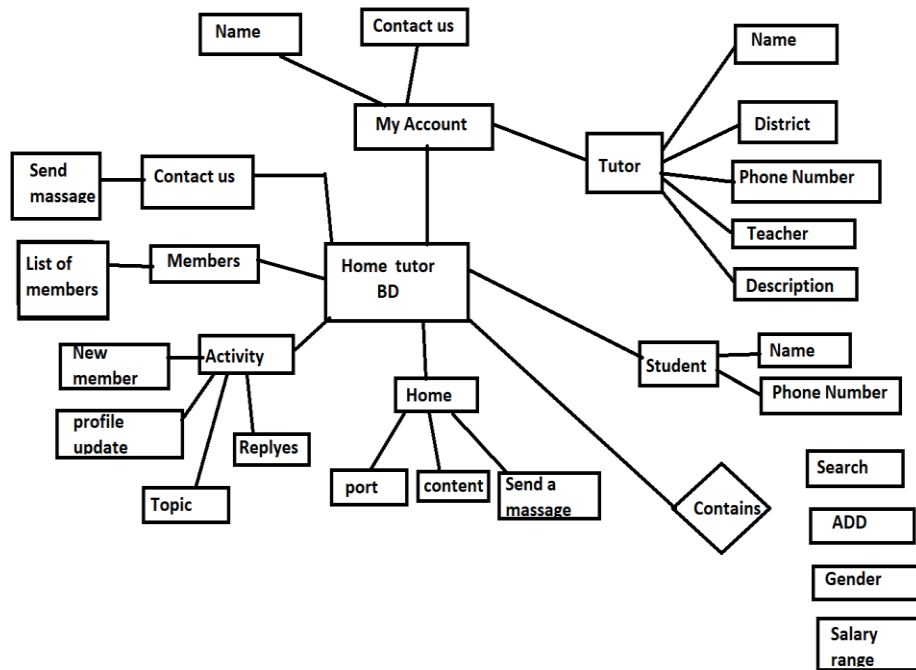


Figure 3.4: ER diagram

3.5 Design Requirements

To run a framework easily, the front end and the back end configuration assume an imperative job. The accompanying focuses ought to be remembered while structuring the prerequisites:

Productive: The application ought to be lightweight. The mass clients have diverse sort of gadget which will prompt distinctive kind of execution. So bearing that, the website is ought to be constructed such a way, that it keeps running on every one of the gadgets immediately.

User Friendly: The website has an easy to understand interface. The clients can without much of a stretch explore to various segments of the website. A hunt bar has

been incorporated to look for a particular spot. Furthermore, there has been utilization of direct call, check website.

- ☐ There will be two sort of client in this framework.
- ☐ The spots will be arranged sequentially in their very own classes.
- ☐ Users will explore the application through class.
- ☐ Users will look for spots in the pursuit bar situated in the side menu.
- ☐ Users can tap the telephone symbol to make a call.
- ☐ Users can tap the website symbol to straightforwardly visit the website of the specific spot.
- ☐ Users can utilize the inserted guide straightforwardly on the screen.
- ☐ There is no requirement for a client to login, they simply introduce the application and great to go.
- ☐ Admins need to sign in to the interface utilizing legitimate client name and secret word
- ☐ Admins can include new places from the front end of the website.
- ☐ Admins can erase, update, adjust the data of the database from the backend of the website.

CHAPTER 4

DESIGN SPECIFICATION

Plan determination of a framework indicates how the improvement procedure will go for a specific framework and how the advancements are being finished. A structure determination is a point by point report giving data about the conceived of a venture to set criteria the designers should meet. Its utilization is called for where a structure or item must be uniquely made to address an issue. In the accompanying area I will give the front end and back end structure of our website alongside the instruments and stages used to build up the website.

4.1 Front-end Design

The front end of the site Home Tutor BD has been created with HTML. The plan has been kept plain with the goal that the client get an easy to understand interface to surf around the site. The clients need and dynamic web association with utilize the site as it's created dependent on the constant database idea.

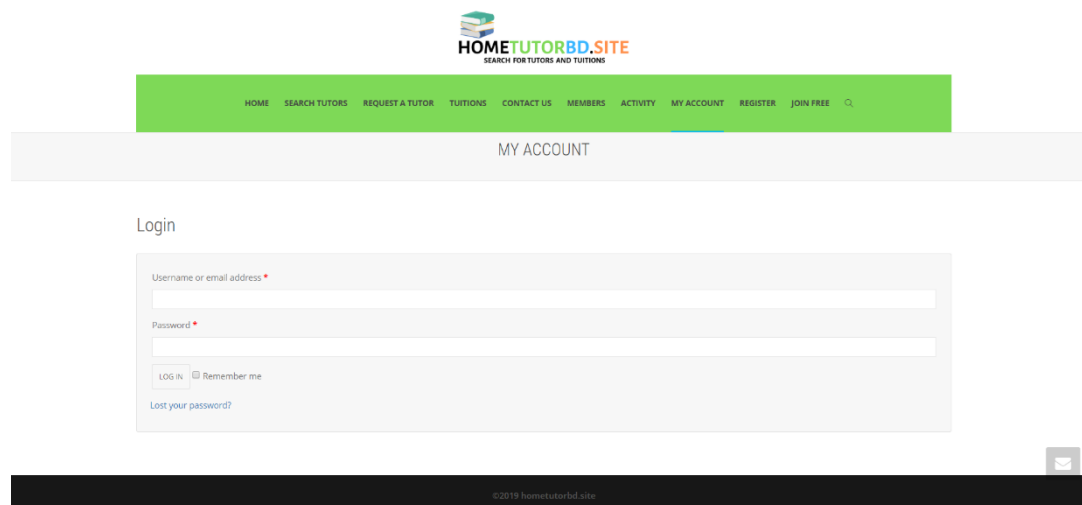


Figure 4.1: Home page



SEARCH FOR TUTORS AND TUTORINGS

HOME SEARCH TUTORS REQUEST A TUTOR TUTORINGS CONTACT US MEMBERS ACTIVITY MY ACCOUNT REGISTER JOIN FREE

Create an Account

Registering for this site is easy. Just fill in the fields below, and we'll get a new account set up for you in no time.

Account Details

Username (required)

Email Address (required)

Choose a Password (required)

Confirm Password (required)

Profile Details

Full Name (required)

Enter Your Full Name

This field can be seen by: Everyone [Change](#)

District (required)

This field can be seen by: Everyone

Phone Number (required)

This field can be seen by: Everyone [Change](#)



Figure 4.2: Registration page



SEARCH FOR TUTORS AND TUTORINGS

HOME SEARCH TUTORS REQUEST A TUTOR TUTORINGS CONTACT US MEMBERS ACTIVITY MY ACCOUNT REGISTER JOIN FREE

REQUEST A TUTOR

Full Name

District

Subject

Gender

Desired Tutor Gender

Salary Range

Detail Address

Mobile Number

Email *

Additional Info in details

Figure 4.3: Searching a tutor

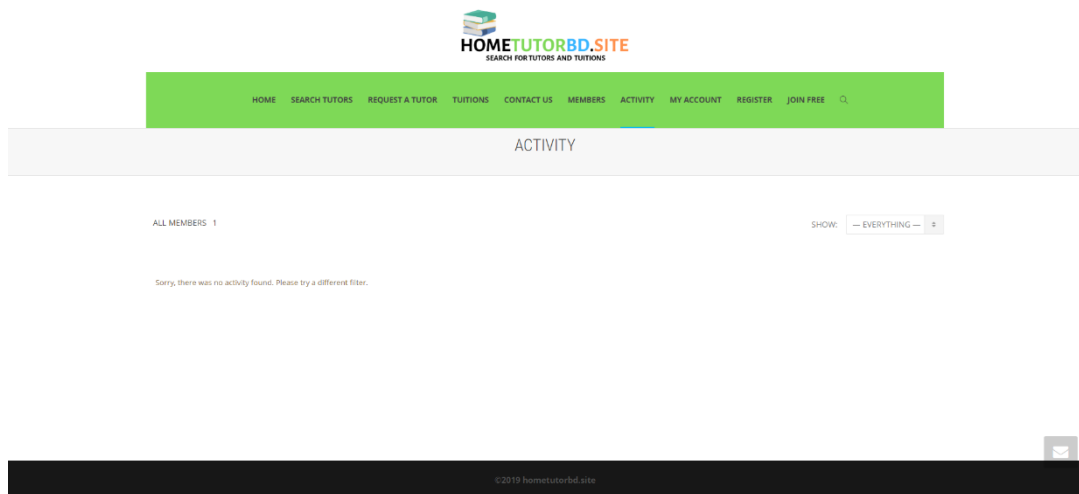


Figure 4.4: Activity

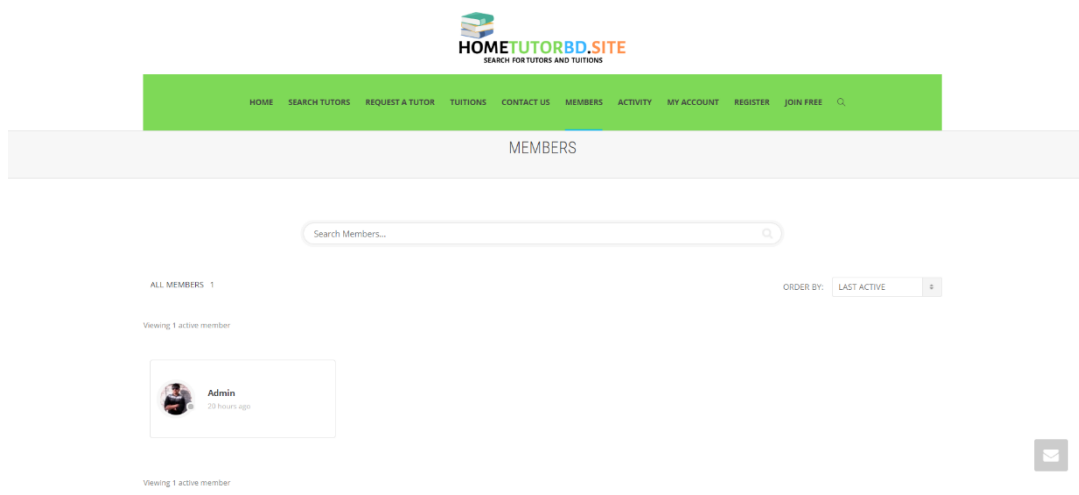


Figure 4.5: Members

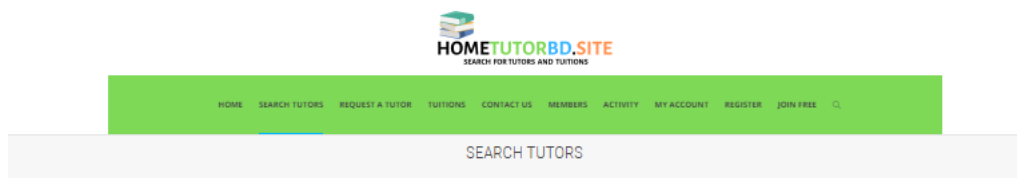


Figure 4.6: Search tutor

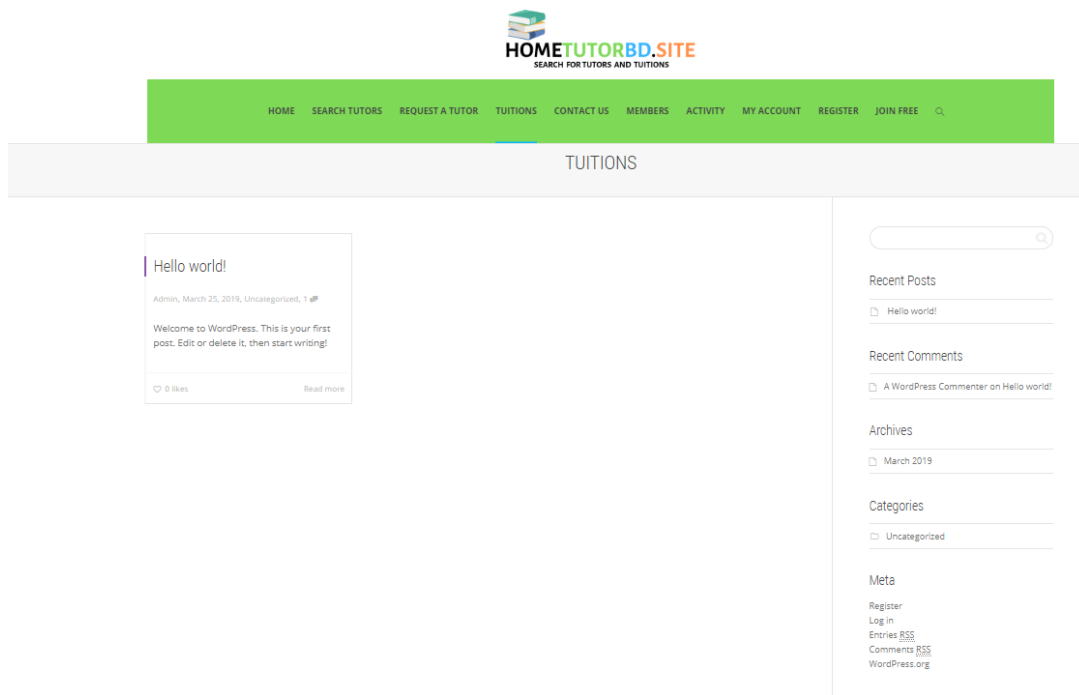


Figure 4.7: Tution category

4.2 Back-end Design

The backend of a website is the most imperative part. All the coherent things occur here. How the interface will be, the manner by which the activities will work, how things will be spoken to the client, in certainty every one of the parts of the application relies upon the back end of the website. The dialects utilized, the database, the security of the web,

css	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
images	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
includes	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
js	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
maint	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
network	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
user	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
about.php	11.17 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
admin-ajax.php	4.32 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
admin-footer.php	2.56 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
admin-functions.php	409 bytes	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
admin-header.php	7.54 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
admin-post.php	1.65 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
admin.php	11.15 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644

Figure 4.8: Database

	css	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
	images	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
	includes	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
	js	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
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	user	4 KB	Mar 18, 2019, 1:44 PM	httpd/unix-directory	0755
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	admin-ajax.php	4.32 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
	admin-footer.php	2.56 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
	admin-functions.php	409 bytes	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
	admin-header.php	7.54 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
	admin-post.php	1.65 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644
	admin.php	11.15 KB	Mar 18, 2019, 1:44 PM	application/x-httpd-php	0644

Figure 4.9: Database

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	bubble_bg.gif	398 bytes	Jan 30, 2019, 9:57 PM	image/x-generic	0644

Figure 4.10: Database

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

A Web database is a database application intended to be overseen and gotten to through the Internet. Site administrators can deal with this accumulation of information and present logical outcomes dependent on the information in the Web database application. Database have been an advantage for organizations, permitting the gathering of apparently unending measures of information from unbounded measures of clients.

5.2 Implementation of Front-end Design

Login page for admin: Coming up next is the login page for administrators of the site. Here in the given field the administrator can put the client name and secret word to sign in to the site, which will empower him to add new places to the database.

5.3 Implementation of Interactions

To make the site progressively intuitive, responsive UI has been utilized. We realize that singular catches which call to activities are better for the mass client instead of content data. In light of that has been included the site for making a call and visiting the site of the specific spot. The administrators has the login choice through which they can sign in to add class to the database

5.4 Testing Implementation

Framework Testing is a dimension of the site testing where a total and coordinated programming is tried. Framework testing: The way toward testing a coordinated framework to confirm that it meets indicated. The testing of the actualized framework is a required procedure to build up any application. The bugs and bothers are found through legitimate testing. The analyzer will distinguish the issues found with the site which drives the designer to recognize the bugs and resolve the issues. All through the advancement procedure of the site "Home Tutor Bd" it has been tried a few times by various clients. The experiment assessment of the site is given beneath:

Table 5.1: Test case evaluation

Sl.	Test Case	Input	Expected Outcome	Obtained Outcome	Pass/Fail	Testing Date
1	Login	Login for different admins	Successful Login	Successful Login	Pass	13-11-2018
2	Add New Place	Data for input as a new entry	New place added successfully	New place added successfully	Pass	13-11-2018
3	Interface	Deployment in various types of android device	Support every device	Support every device	Pass	13-11-2018
5	Data Store and Load	Data will store and load through JSON parsing	Data stored and loaded successfully	Data stored and loaded successfully	Pass	13-11-2018
6	ANR (Application not responding)	Application is responding on various device	Very low percentage of not responding	Very low percentage of not responding	Pass	19-11-2018
7	Admin Logout	Click on log out button	Logged out successfully	Logged out successfully	Pass	13-11-2018

5.5 Test Results and Reports

The aftereffects of the testing of the website are assembled to set up the test report. The report portrays the impression of the testing formally. It records the information acquired from the assessment of the website and help to defeat the issues. It is an incredible help to accomplish the goals of the improvement venture. There are different sorts of testing:

- ☐ Functionality
- ☐ Regression
- ☐ Security
- ☐ Performance
- ☐ Localization
- ☐ Scalability
- ☐ Usability
- ☐ UI Interaction

In the past section the experiments with the test outcomes has been appeared. From the test report we can verify that the created website is a superior one which can fulfill its clients. It has an incredible easy to use interface and better UI structure. Furthermore, the application is immeasurably acknowledged by the clients.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

It was a great journey to develop the website and implement all the aspects of it. We are very glad to make something that will help the common people very much. The determination, dedication and good will have made us successful in developing such an application. The home tutor website will be very handy to the users of all classes and levels. And we think this website will achieve great success.

All thanks goes to the Almighty to bless us with the determination to complete the project. We also cordially thank our supervisor who has helped us in every possible way to finish our job.

6.2 Scope for Further Developments

In the future, the website can be updated to add more categories. It can also be updated to cover other categories. Some future development can be as follows:

- Can be developed for android platform
- The database can be developed more precisely
- More and more categories can be enlisted in the website
- Additional features can be added to the website like giving ratings
- The admin section can be developed to make it easy to add new categories

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HOME TUTOR

by Abdus Sattar

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