

**Development of a Web Based Application of Easy English**

**BY**

**Md. Nafiur Rahman Hridoy**

**ID: 143-15-4363**

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

Supervised By

**Mr. Saiful Islam**

Lecturer

Department of CSE

Daffodil International University

Co-Supervised By

**Mr. Eshtiak Ahmed**

Lecturer

Department of CSE

Daffodil International University



**DAFFODIL INTERNATIONAL UNIVERSITY  
DHAKA, BANGLADESH**

## **APPROVAL**

This Project titled “**Easy English**”, submitted by Md. Nafiur Rahman Hridoy 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 (BSc) and approved as to its style and contents. The presentation has been held on 10 December, 2018

## **BOARD OF EXAMINERS**

---

**Dr. Syed Akhter Hossain**  
**Professor and Head**

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

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---

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---

**Md. Zahid Hasan**

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

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---

**Dr. Mohammad Shorif Uddin**

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Department of Computer Science and Engineering  
Jahangirnagar University

**External Examiner**

## DECLARATION

I hereby declare that, this project has been done by me under the supervision of **Mr. Saiful Islam, Lecturer, Department of CSE** 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:

---

**Mr. Saiful Islam**  
Lecturer  
Department of CSE  
Daffodil International University

### Co-Supervised by:

---

**Mr. Eshtiak Ahmed**  
Lecturer  
Department of CSE  
Daffodil International University

### Submitted by:

---

**Md. Nafiur Rahman Hridoy**  
ID: 143-15-4363  
Department of CSE  
Daffodil International University

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## **ABSTRACT**

This project is a web based application titled “Easy English”. This web based application is designed & built for students and teachers. In our country many students are less strong in English. Most of the time they are unable to understand proper meaning of what they read and memorize at random. So they are facing many problem for their weakness in English. The main reason of this problem is the uses of difficult words in their learning source. This web based application is platform for learning English with Bangla meaning. Through this application students will be able to search their English article and translate it from English to Bangla with one click. They will be able to solve speaking or writing any difficulties through an interactive system. They will be able to contact with experts via using chatting features, able to provide any compliment on their favorite English articles. Via using this application many students are solve their problem about English learning. They will able to easily find out their English articles through registration or without registration. If they need to understand the proper meaning they can translate it without registration. Teachers will be able to publish or post their articles through an interactive system. Hope this system will solve all types of issues to learning English thoroughly with proper guideline.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

English is an International Language. In Our country it's known as second Mother Tongue. As an International language English is must for the learner of all classes. But English seems very hard to them when they try to gather it by themselves. There are many ways of learning English easily. So the learners shouldn't afraid of learning English if they want to build up their career based on English.

### 1.2 Motivation

In our country many students are less stronger in English. Most of the time they are unable to understand proper meaning of what they read and for that reason they intend to memorize at random. Reason of this problem is the use of difficult words in their learning source basically on their memorizing part. That's why I am interested to develop this project so that the students can find out the easiest source of learning English easily.

### 1.3 Objectives

- ❖ To be able to solve English speaking or writing problems through an interactive system.
- ❖ To be able to interact with experts from any place at any time.
- ❖ To be able to search any English Articles through an interactive system.
- ❖ To be able to give Comment and rating on specific articles.

### 1.4 Expected Output

Students will be able to understand meaning their Memorizing part easily. They will be easily connected with the expert teachers. Moreover, they themselves will solve their problems by asking question to their teachers.

## **1.5 Report Layout**

Chapter 1: In this chapter I discussed about the motivation, objectives and expected outcome of the project.

Chapter 2: This chapter I have described the background, related works which has similar works with this project and also provide challenges that I faced.

Chapter 3: Contains basically discuss about BPM (Business process modeling) and use case Diagram. Use case is the main part of this chapter.

Chapter 4: In this chapter all about the design of the website and implementation requirement and its related works.

Chapter 5: This chapter contains the whole testing and implementation process of database, front-end and interactions and provided there test results.

Chapter 6: Contains conclusion, limitations of this project and future scopes for the development of this project.

## **CHAPTER 2**

### **BACKGROUND**

#### **2.1 Introduction**

This chapter describes about background of **Easy English** website and also discusses about few similar related work. The perfect outcome of the project has been discussed here effectively.

English is the most common language in the world that can understand by most number of people. Nowadays English knowing people have great demand all over the world. That's why every people must learn an English language properly. In our country most number of students can't understand what they read in English. They are just memories their study materials.

So the concept of this project is how to easily learn an English language properly with proper meaning in Bangla. Students who can't understand the meaning of their study material they visits this website and searching their study articles if they facing any problem to understanding the word meaning they just click translate button then the page is translate English to Bangla. Further any information about articles the can comment on articles post. Student can send a message to teachers who can provided articles for any query.

#### **2.2 Related Works**

In this part discussed about some similar related works with this project.

1. Online edu care: Online edu care is website that have provided a different types of English articles. Such as paragraph, composition, story etc. It has search option. If student the student can't find there study material they can find it via searching. Student can comment against on post for their query. They also can share their post. [1]

2. Useful learning (UL): This website that have provides tips for learning English. They also provided an academic articles. Only few admin published Their articles. This website don't have a registration option. Just visit and manually search articles. [2]

## **2.3 Comparative Studies**

From previous discussion we saw that they have only provided English articles and it is publish by specific Admin. There are no registration option for teacher and student. But there is no specific website for learning English with Bangla meaning.

The Implemented website provided a registration option for any teacher for posting their English articles. Student also can opportunity for registration. They can give feedback via comment for against with specific post. If they have any query about articles they can send a message to teacher because it have a messaging option. This website provided a translate option from English to Bangla. It's big platform of learning English with Bangla meaning. It also provided rating option against on post. This website provided searching option for finding English articles.

## **2.4 Scope of the problem**

Already mentioned about scope of the problem in above. Mainly work for whose student they are week in English or can't understand English. Via using this website they can easily learn English with exact meaning. The teacher can easily suggest their student easily. Student can easily contact their teacher without wasting time.

This project have future development opportunity. It also have adding a more feature like live chatting, video calling , one click solution for translating from English to Bangla, and also develop an Android application for another platform of this system. In future via development the website will get more user-friendly system.

## 2.5 Challenges

For developing the project many challenges and problem have been faced by me. The main challenges that is design and implementation for this system. I tried my best to create this project which would be more user-friendly for students and teachers.

We know that getting internet connection still now more costly in purpose of our county. In Bangladesh still now many places haven't good internet connection. If any student need to use this system they must be need a good internet connection. Hope that one day problem will be solve by our govt.

Another problem is popularization of this website. This have successfully develop this project but students and teachers have must be knowing about this website. If the more student can use this website, this website get more popularity.

Last problem is development and maintain this problem in future. I have financial limitation of this project. If this project don't get any fund or sponsor for this project, it is getting difficult to maintain future development of this project to me. Hope, it will get a fund or sponsorship for development, maintain and upgrading feature of this website.

# CHAPTER 4

## REQUIRMENT SPECIFITACTION

### 3.1 Business Process Modeling

Business process model is a process for an exhibiting the workflow of a specific system. Via business process model it able to showing the data flow of this system. At first the user visit the website then they must be choose any option to use the function. If they want to registration in website when they need to provide a few data to specific system. After registration process if they want to post something they must be provide specific required data such as title, category and photos. After this process the data transfer to databases. User can send a message to others user it able after registration.

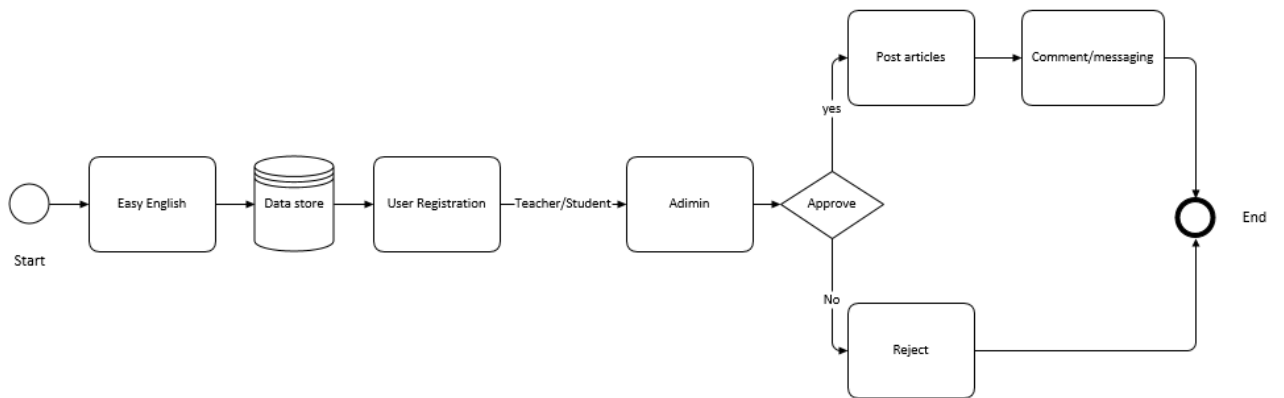


Figure 3.1.1: Business process model of Easy English



### **3.2 Requirement Collection and Analysis**

From the previous discussion already described about requirements. In here it deeply described about requirements.

Requirements analysis is an important part of web based application. Requirement analysis also known as Requirement Engineering. Requirement analysis is an important for project management. We know that, there are two types of requirement such as functional and other one is nonfunctional. Functional requirement is process of the web application how can perform. And Nonfunctional requirement define is behaviors, performance, efficiency of a web application.

In easy English a user first of all need to registration to use this website. For registration process they must provide some information about them such as Name, Qualification, Designation, Institute Name, Contact no, Gender, Email, Password and photos .Now It need to collect their data to data store. After registration teachers can post their articles. For post their articles they provide some information about articles such as article name, category, class, Board, year. And students can comment against their post. Students also can send an email to a teachers.

For save all the data I need a good database for managing all the data. And I also create good database with better connections. When user want to registration to this website, after complete their form fill-up a notification send to an admin. For creating this type of notification system and other functionality I need a framework to build this system. This reason I use a codeigniter which is php based framework. Codeigniter is an open source software. This framework help to me for develop this dynamic website. This framework also help to me for secure the website.

For develop this website I needed a development methods. To develop this web based application I used agile development method. This method helped to me for making this web application properly. I followed some rules of agile development method such as requirement analysis, plan, design, development, test, and then release. After release I tracking and monitoring some of issues and solved it.

### 3.3 Use case modeling and description

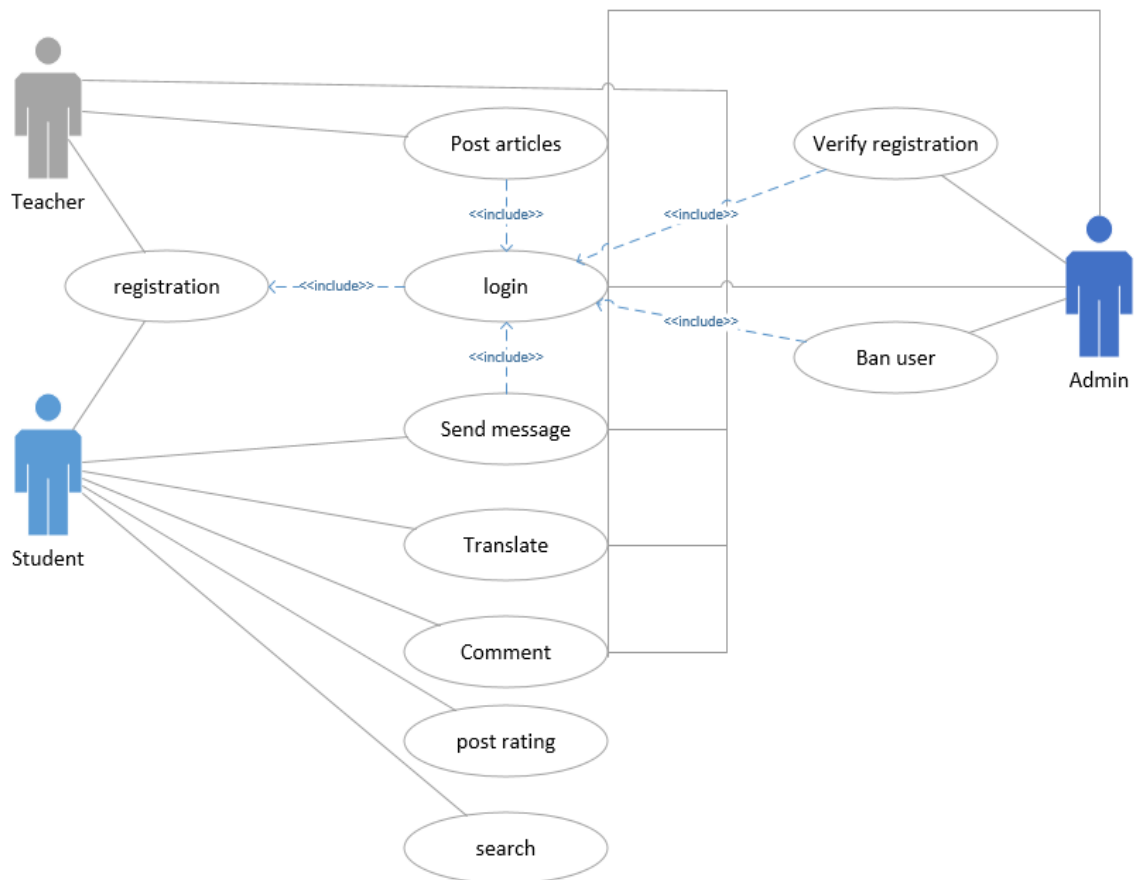


Figure 3.3.1: Use case model of this web application of Easy English

In this use case model we see that there were three types of actors in this system. First one is teacher second one is student and third or last one is Admin. In my system if any user who is teacher or student at first they can registration to this website after registration teacher can post their articles and student can comment their post, can send message to their teacher, translate articles to Bangla, give a rating to the post, and searching their articles. in this system the role of admin when he see that any user want to registration in website he can verify their profile and approve their registration. Admin can ban any user for any bad occurrences. Admin can see that how many articles are post this website.

### 3.4 Use case narrative for Actors

Table 3.4.1: Use case of user registration and login

<b>Use case Name</b>	User registration or login
<b>Actor</b>	Teacher or student
<b>Pre-condition</b>	<ul style="list-style-type: none"> <li>❖ Need any internet browsers.</li> <li>❖ Need an internet connection.</li> </ul>
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ If user haven't any profile on this website they must be registration to this website.</li> <li>❖ If any user want to post their articles or use other activities of this website they must be login at fist.</li> </ul>
<b>Exceptional Paths</b>	Check the username or password if any users having any issues.

Table 3.4.2: Use case of post articles

<b>Use case Name</b>	Post Articles
<b>Actor</b>	Teacher
<b>Pre-condition</b>	<ul style="list-style-type: none"> <li>❖ Need any internet browsers.</li> <li>❖ Need an internet connection.</li> </ul>
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ Visit the website login at first then go to the post writing option then select the category and others information about the articles and finally they can post their articles.</li> </ul>
<b>Exceptional Paths</b>	If any user couldn't post their post at first they check their internet connection.

Table 3.4.3: Use case of translate feature

<b>Use case Name</b>	Translate
<b>Actor</b>	Teacher or student
<b>Pre-condition</b>	None
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ If any user want to translate the articles at first they need to visit the website then go to the any posted articles page click the translate button then they can see the Bangla meaning of specific articles.</li> </ul>
<b>Exceptional Paths</b>	None

Table 3.4.4: Use case of comment

<b>Use case Name</b>	Comment
<b>Actor</b>	Student or teacher
<b>Pre-condition</b>	None
<b>Internal Paths</b>	❖ Student can give a comment against on any articles. And teacher also can reply their comment.
<b>Exceptional Paths</b>	None

Table 3.4.5: Use case of send message

<b>Use case Name</b>	Send message
<b>Actor</b>	Student or teacher
<b>Pre-condition</b>	❖ Need an internet connection.
<b>Internal Paths</b>	❖ Student can send a message to any teacher. If any student have any query about ta articles or others issues they can send message to teacher.
<b>Exceptional Paths</b>	If student facing any problem about sending message to their teacher. At first check internet connection.

Table 3.4.6: Use case of rating post

<b>Use case Name</b>	Rating post
<b>Actor</b>	Student
<b>Pre-condition</b>	❖ Need any internet browser. ❖ Need an internet connection.
<b>Internal Paths</b>	❖ Student can give the rating on their favorite articles.
<b>Exceptional Paths</b>	None

Table 3.4.7: Use case of search

<b>Use case Name</b>	Search
<b>Actor</b>	Student
<b>Pre-condition</b>	<ul style="list-style-type: none"> <li>❖ Need any internet browser.</li> <li>❖ Need an internet connection.</li> </ul>
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ Student can search their articles on this website.</li> </ul>
<b>Exceptional Paths</b>	None

Table 3.4.8: Use case of login

<b>Use case Name</b>	Login
<b>Actor</b>	Admin
<b>Pre-condition</b>	None
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ Admin can login to admin panel using username and password.</li> </ul>
<b>Exceptional Paths</b>	None.

Table 3.4.9: Use case of verify registration

<b>Use case Name</b>	Verify Registration
<b>Actor</b>	Admin
<b>Pre-condition</b>	<ul style="list-style-type: none"> <li>❖ Need any internet browser.</li> <li>❖ Need an internet connection.</li> </ul>
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ Admin can verify the registration of users.</li> </ul>
<b>Exceptional Paths</b>	None

Table 3.4.10: Use case of Ban user

<b>Use case Name</b>	Ban user
<b>Actor</b>	Admin
<b>Pre-condition</b>	<ul style="list-style-type: none"> <li>❖ Need any internet browser.</li> <li>❖ Need an internet connection.</li> </ul>
<b>Internal Paths</b>	<ul style="list-style-type: none"> <li>❖ Admin can ban any user if they generate any occurrence.</li> </ul>
<b>Exceptional Paths</b>	None

### 3.5 Logical Data Model

Logical data model is a relational table with different Entity. Every entity have some Attribute. In this project have some relational table such as User, Articles, Category, Comment, Admin. User table have some attribute such as User ID, Name, Institute, Designation, contact Number, Email and password. Articles table have Articles ID, User ID, Articles title, Category, Board. Category table have category ID and Category name. Comment have a Comment id and User name. Admin have Username and Password.

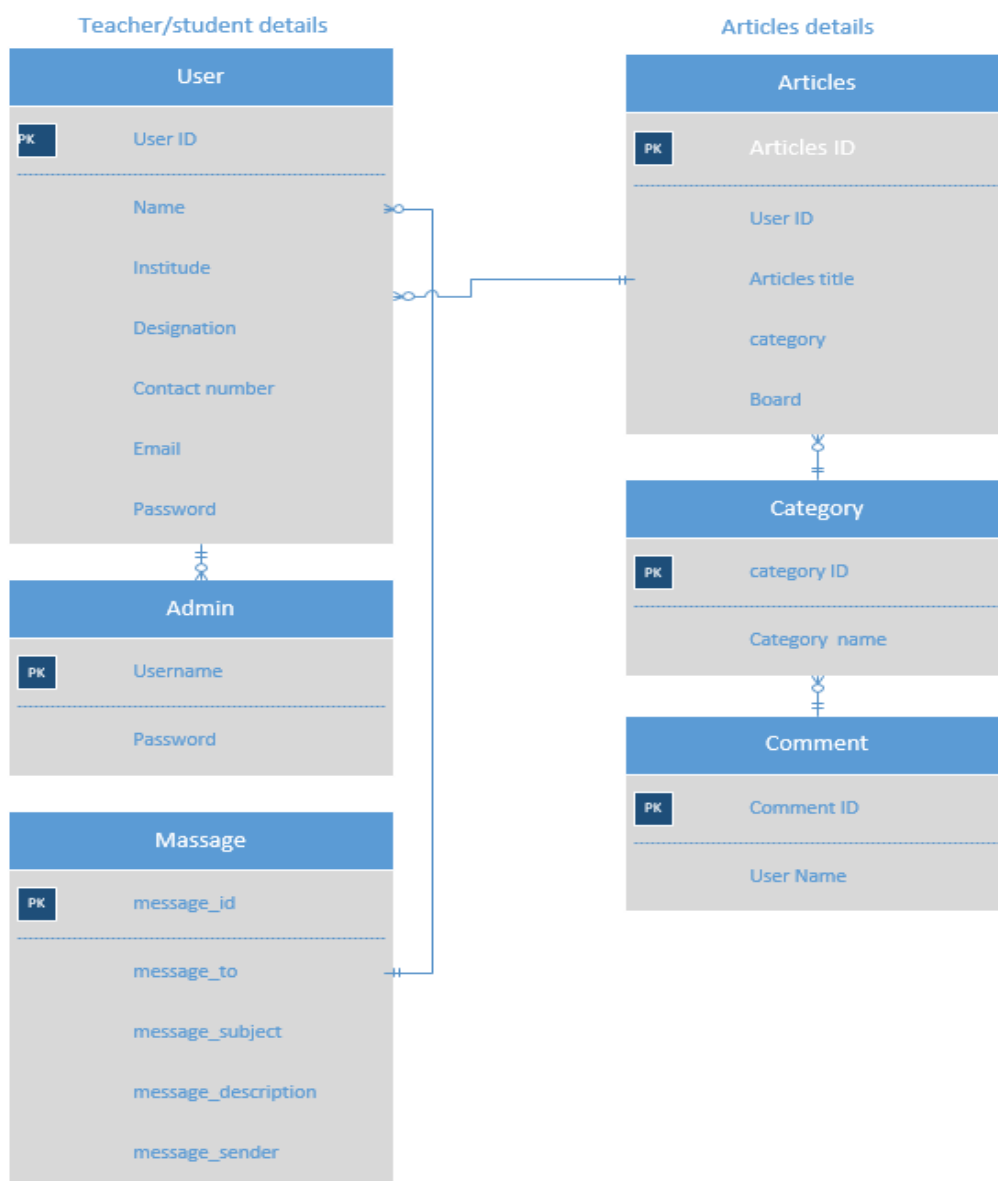


Figure 3.5.1: Logical data model of this web based application of Easy English

### 3.6 Design Requirements

In this part I will describe about design requirements of this system. Few things are describe in below.

The main functionality of this web based application is, it will help to student for learn English easily with Bangla meaning. This is a big platform of teachers for published their Articles and any Student can find their Articles according to their demand such as Essay, Paragraph, Story, English Articles etc.

In this system provided a searching feature. Student can searching their articles via using searching option. This system have Translate feature. If any Student have facing any issue about understanding meaning of English articles they can translate it with Translate feature. This system have messaging feature. Student can send message to their teacher for any query about articles. This system also have some few feature such a comment on any post, rating option, shearing option. Via shearing feature Student can shear any articles to any social media.

I tried to build this system which can be fully customized as it needed. We know that customizing is big feature for website. We also know that any situation if I need any customization when it will need to customize. We know that technology are developing is on their own way. So that any time I will need customize that system. So we see that Customizability is an important thing for any kind of website for added new feature in this system as customize as possible.

I used several types of languages in this system which is PHP, search SQL, JavaScript, jQuery, Json ajax. For designing purpose I use HTML and Css. I used a Framework based on PHP which mane is Codeigniter. This Framework helped me for managing a bigger codes.



# CHAPTER 4

## DESIGN SPECIFICATION

### 4.1 Front-End Design

In previous discussion I describe that this website is an online based web application which place teacher and student gather around for learning English with Bangla meaning. This website is a big platform for learning English properly. In this website have a different webpages with different features. All features are explain in the below with figure and description.

In figure 4.1, this is a homepage of the web based application. At first when teacher and student visit this website they will see this webpage. This webpage has a different menu bars such as Home, contents, contact, about, Translate, Registration, login and in below Search. Home page is a first page of this website that contain all latest English articles. In contents menu showed all types of English Articles. Contact option provided a contact information and maps. In about section provided information about this project. In Translate option provided a language chosen menu. Registration section content two types of registration form for teacher and student. Via using login option registered user can login in website. Search option provided all types of content finding feature.

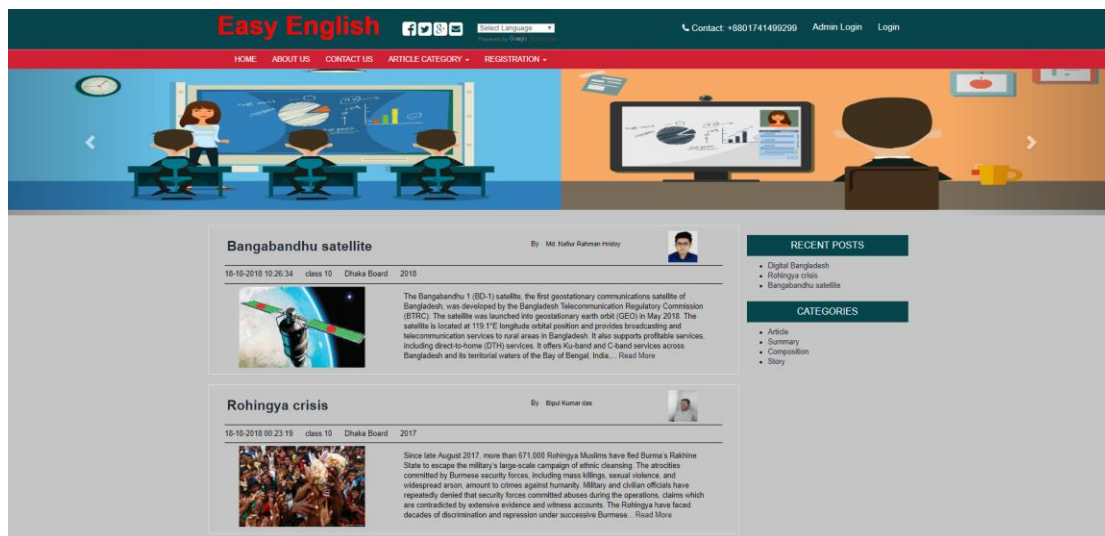


Figure 4.1.1: Home of the Easy English

In Home page also have a slideshow bar for showing some English learning banner for inspiring student to learning English.

## Teacher Registration Form

---

**Full Name**

**Qualification**

**Designation**

**Institute Name**

**Contact Number**

**Gender**

Male  Female

**Email**

**Password**

**Confirm Password**

No file chosen

Figure 4.1.2: User interface for Teacher Registration

If any teacher can publishing their Articles first of all they must be create a profile via using registration process. They could be provided all required information about them.

### Student Registration Form

---

Male  Female  
  
  
  
 No file chosen

Figure 4.1.3: User interface for Student Registration

If any Student can sent message or comment in the post, they at first complete their registration process. Then they do that.

Easy English




 Contact: +8801741499299   Admin Login   Login

---

HOME ABOUT US CONTACT US ARTICLE CATEGORY REGISTRATION

### Student Registration Form

Male  Female Please fill out this field.  
  
  
  
 123 copy.jpg  




Figure 4.1.4: Checking from validation

If a student skip any information when they create profile in this website. That moment this system gives alert for fill-up the information which was skip by student.

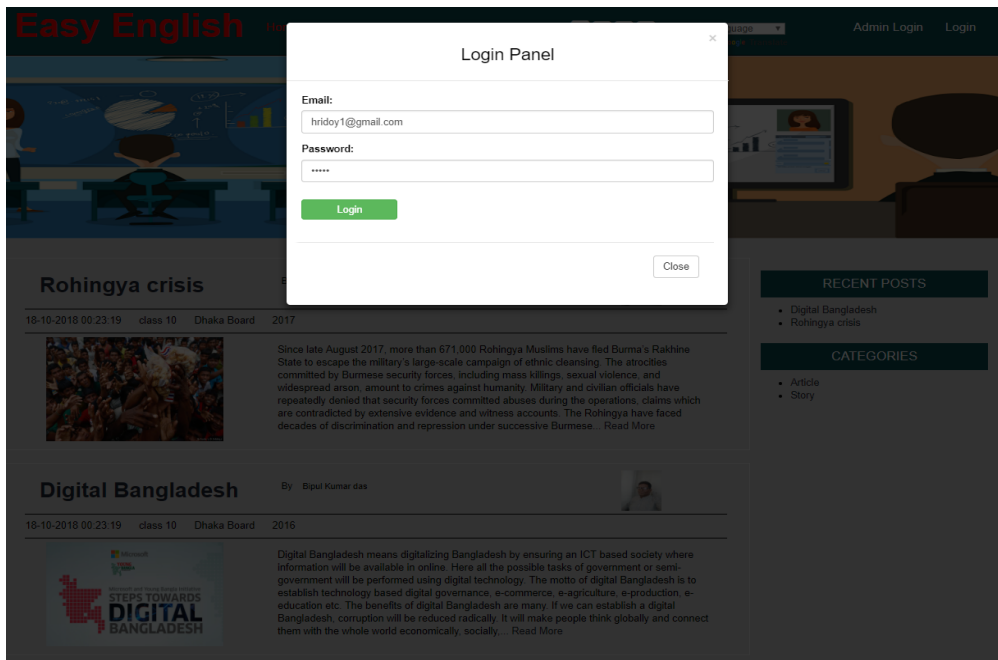


Figure 4.1.5: User Interface of user login panel

This is login panel for user. After complete registration process user can login on website with using their email and password. Without email and password no one can access their profile.

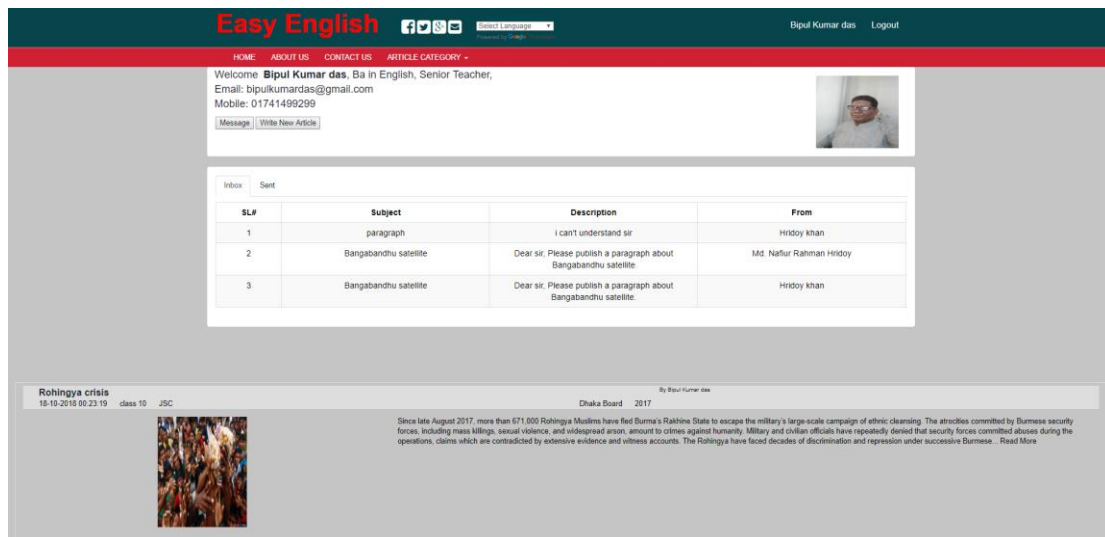


Figure 4.1.6: User interface of teacher profile

This is a user interface of teacher after login. Now teacher can post their articles. They also able to send or replay messages. They can also able to edit their post. If they need

to change their information this system could provide a profile editing option so that teacher change their information if they need.

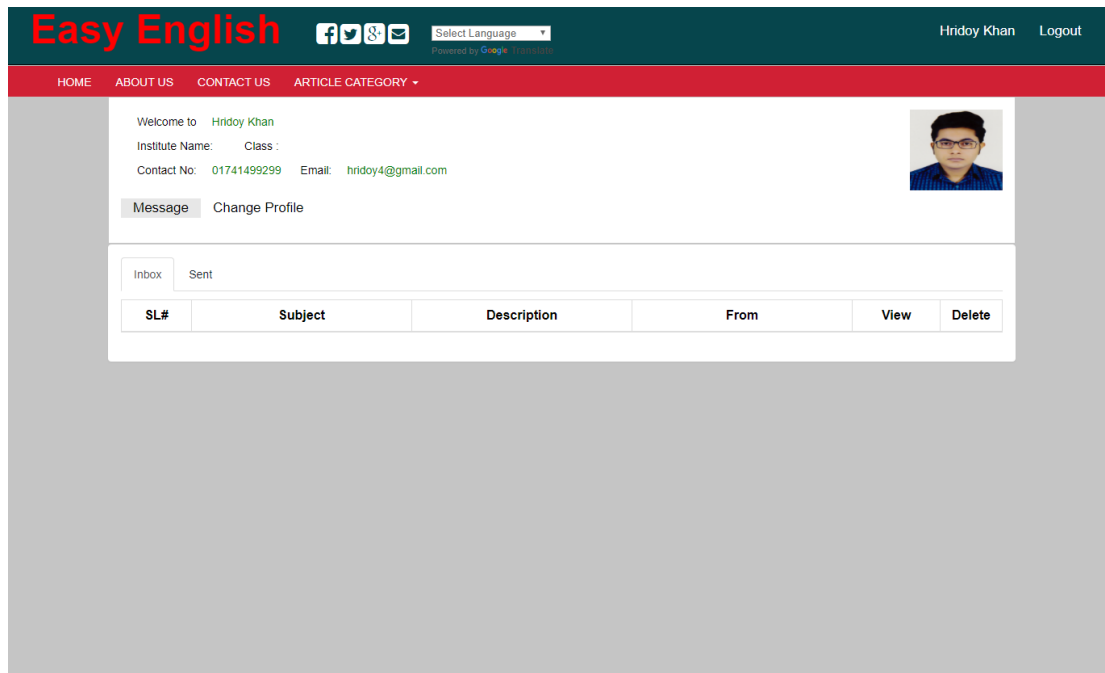


Figure 4.1.7: User interface of student profile

It's a user interface of student. After login they can access their profile and send a message to their teacher. They can give a rating to any articles.

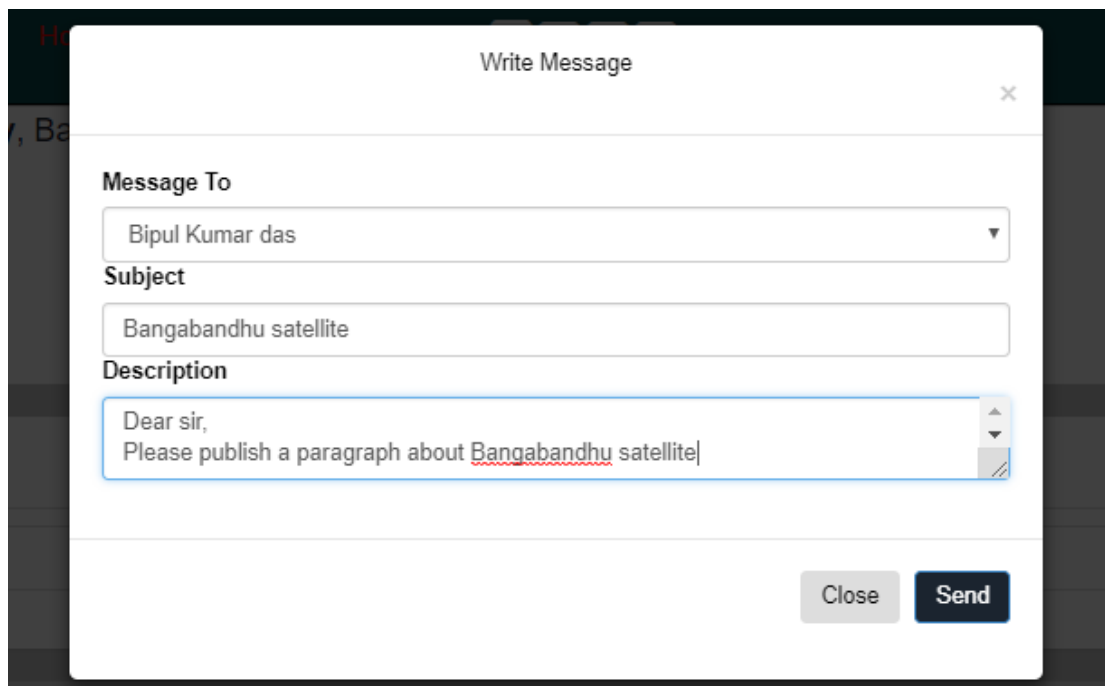


Figure 4.1.8: UI of Messaging

Via using this feature student can send message to their teacher for any issue about learning English.

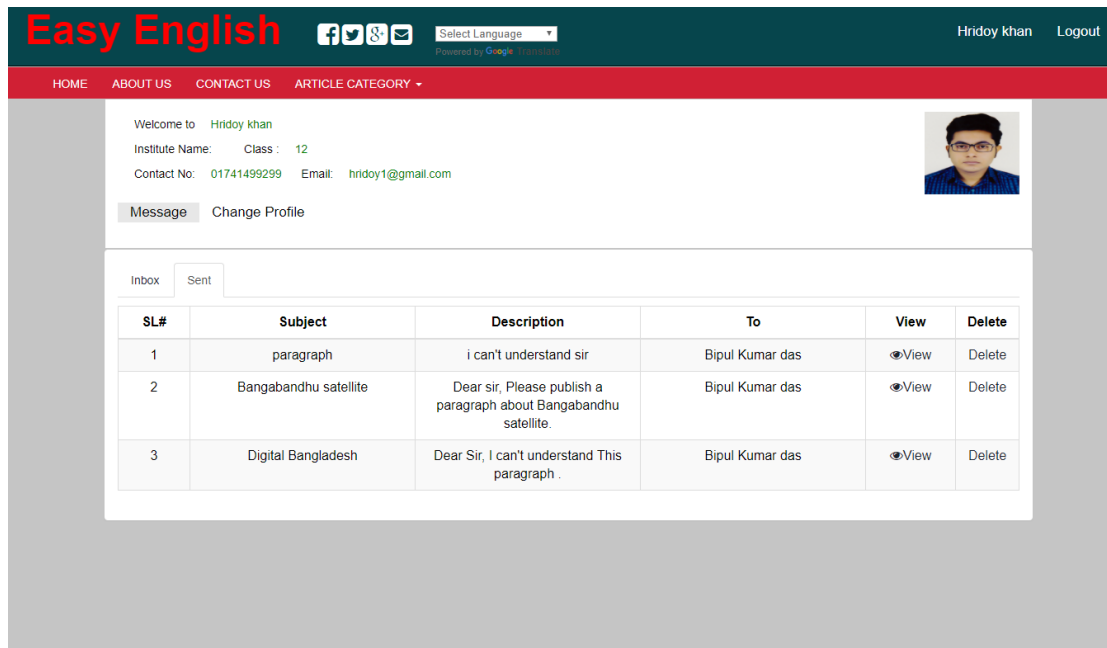


Figure 4.1.9: UI of Inbox

At inbox could store all messages which is send or receive from user. When Student send a message to their Teacher after sending message one of copy is store in this inbox.



Figure 4.1.10: User interface of the Article post

This is user interface for post any English articles. Only teacher can use this feature. For posting any Articles teacher can must be provide a required information about Articles.

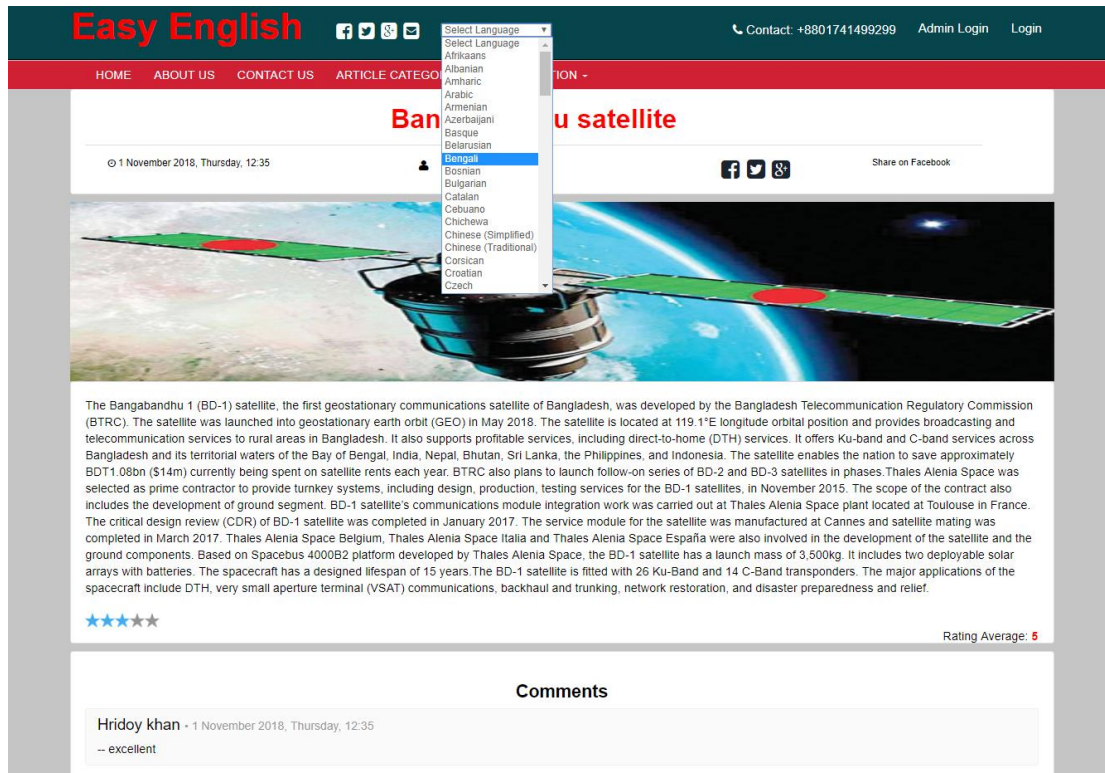


Figure 4.1.11: User interface of Translate Language

This is a translate IU for translate language from English to Bangla. It's a great feature for Learning English with proper meaning. Whose Student are weak in English they have a great opportunity to learning English easily. Anyone use this feature they don't need to Login or registration for using this feature. It is helpful for any student those have weak in English. Using this feature is very user friendly. User just visit this website then go to any post. Now go to the translate option select the Bangla Language and the post is translate to Bangla.



Figure 4.1.12: After translating Language

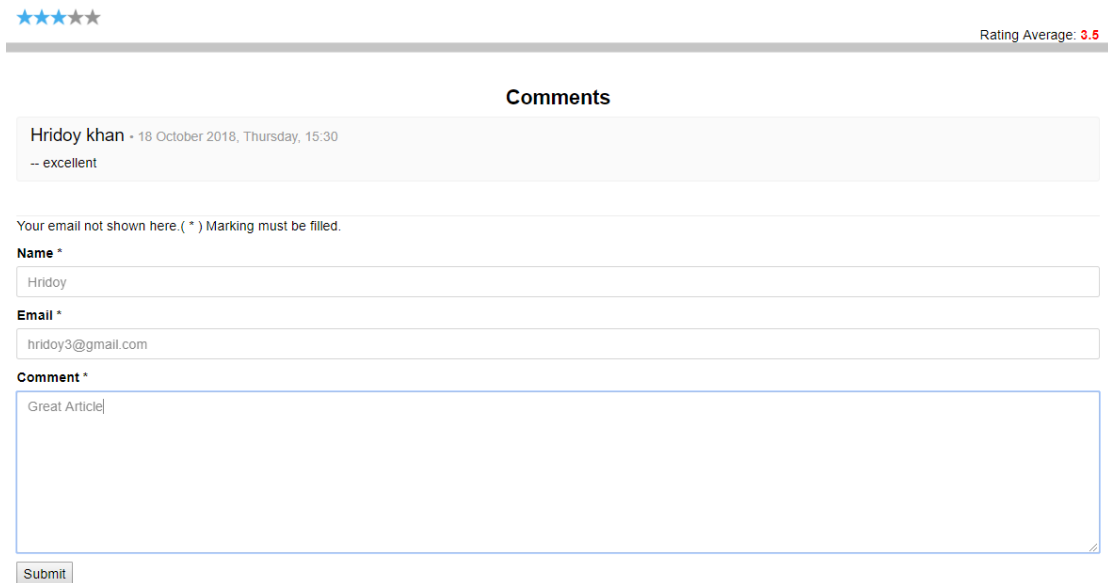


Figure 4.1.13: UI of Rating and comment

In this part see that, it's a User Interface of Rating and comment feature. In rating option have a five star for give a rating in any post. Student able to give a rating to



their favorite Articles. They also able to give any compliment on their favorite Articles.

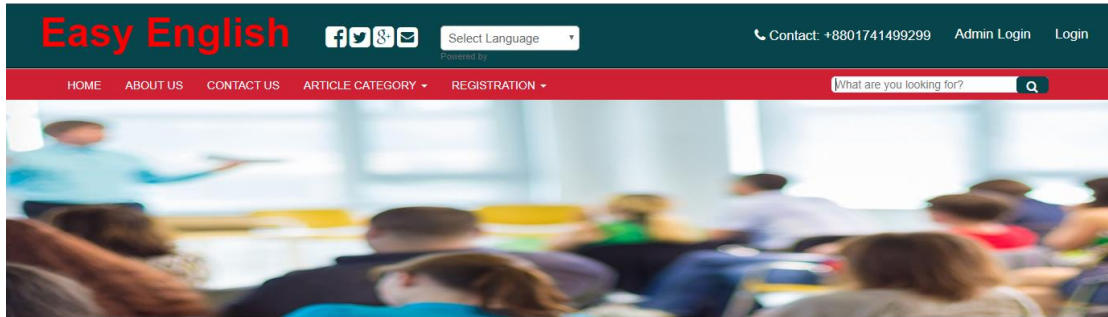


Figure 4.1.14: UI of Search

This is the articles search user interface. Via using this feature any user search any articles what they need.

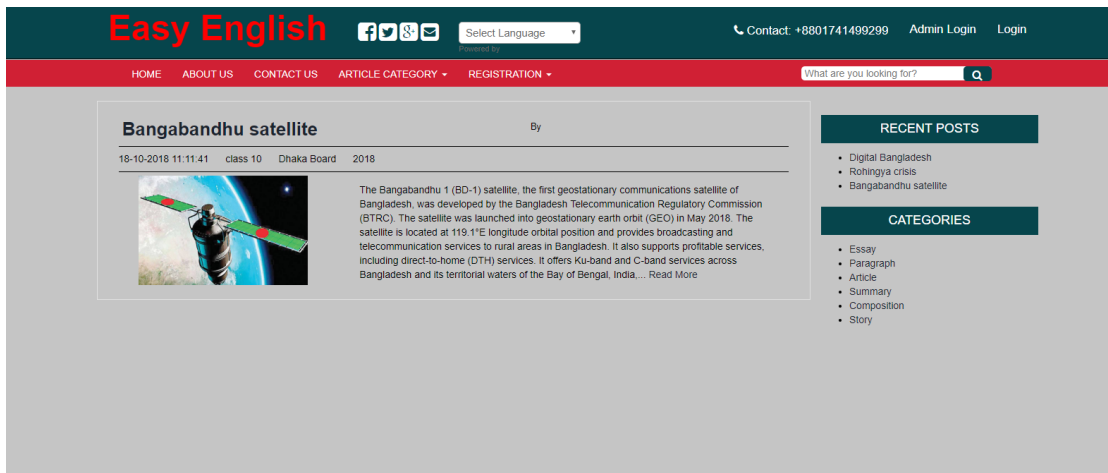


Figure 4.1.15: UI of after searching

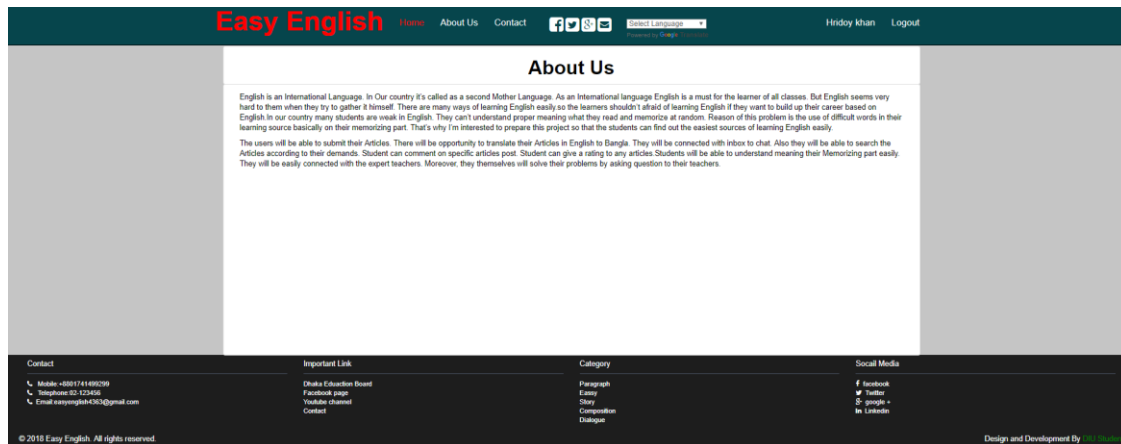


Figure 4.1.16: UI of About Us and footer

In this part I provided a short description about website. And I mention that why I create this web based application. Others part is footer in part I provided some important information about website such as important link which is Dhaka Education board, Youtube channel of Easy English, Facebook page. I also mention that is project was created by the Daffodil international university Student for any Student of Bangladesh.

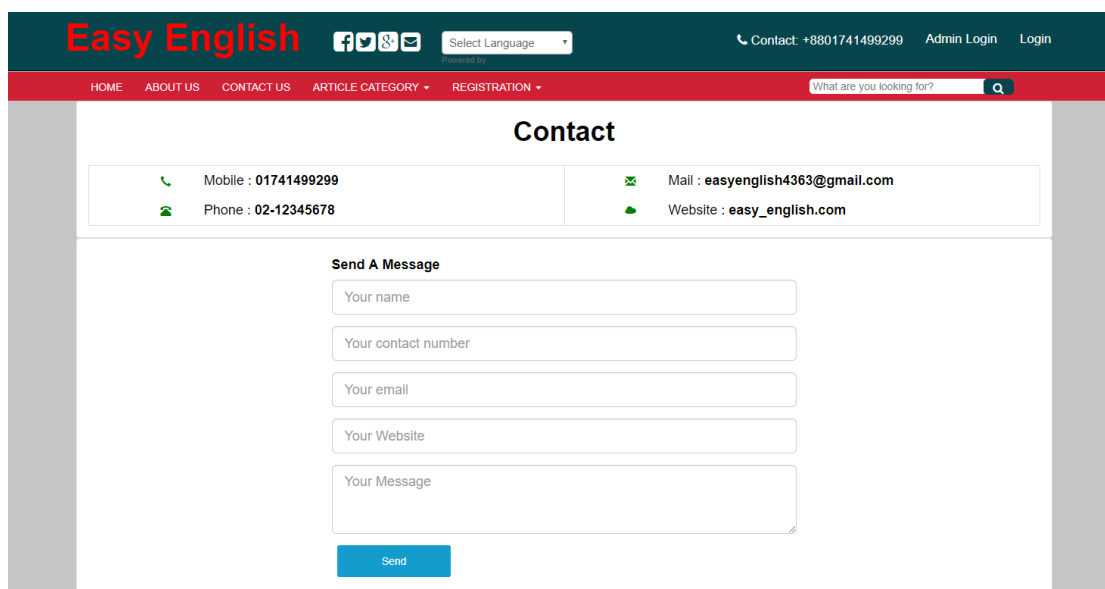


Figure 4.1.17: UI of Contact form

In this part I provided a contact form for any users, who have want to message admin about any issues.

## 4.2 Back-End Development

Back-end part which is mainly for Admin. For Accessing Admin panel need a User name and password. Now deeply describe this part with figure.

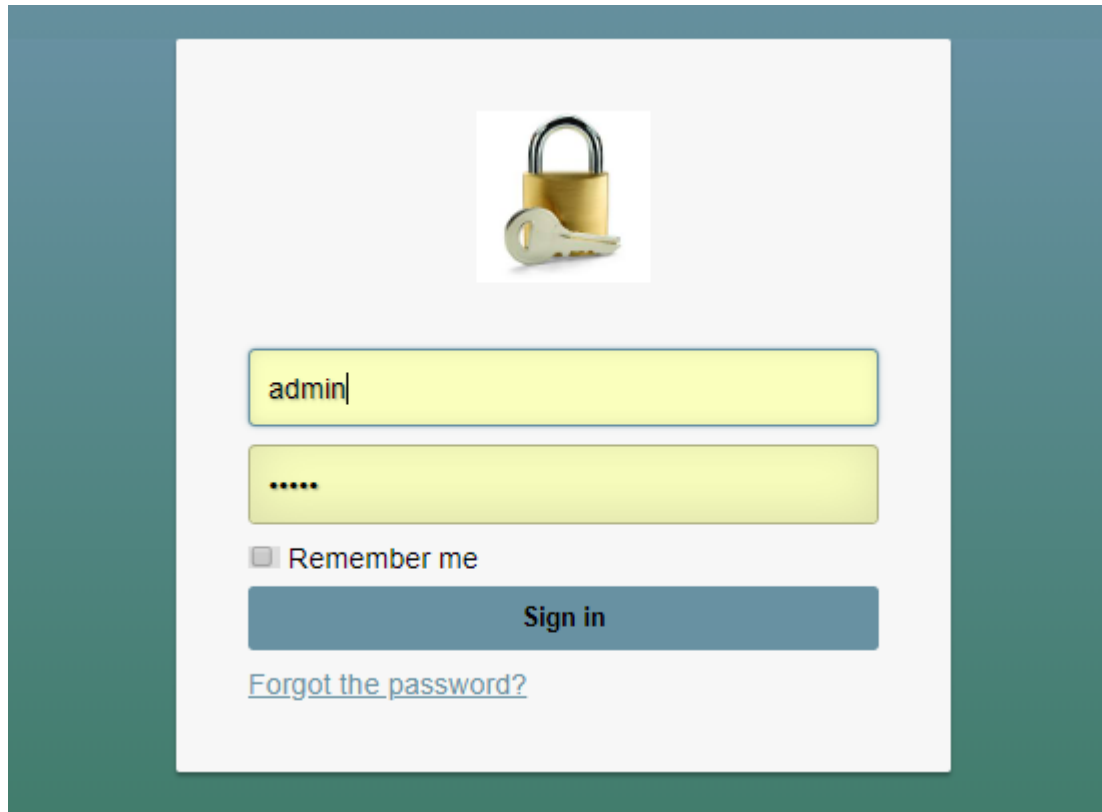


Figure 4.2.1: User Interface of Admin login panel

It's a UI of admin login panel. To accessing dashboard Admin need a username and password. Without user name and password it's not possible to access dashboard.

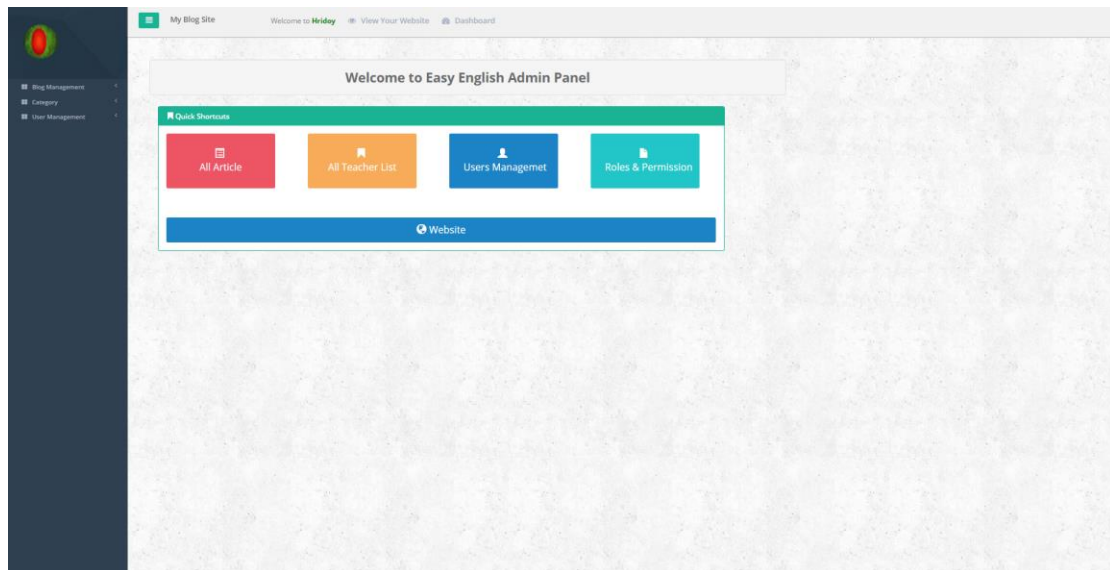


Figure 4.2.2: UI of Dashboard

This is a user interface of dashboard. After logging in an Admin Will see this page. There are few option to managing the whole system such as Articles management, Teachers management user management, roles & permission and category.

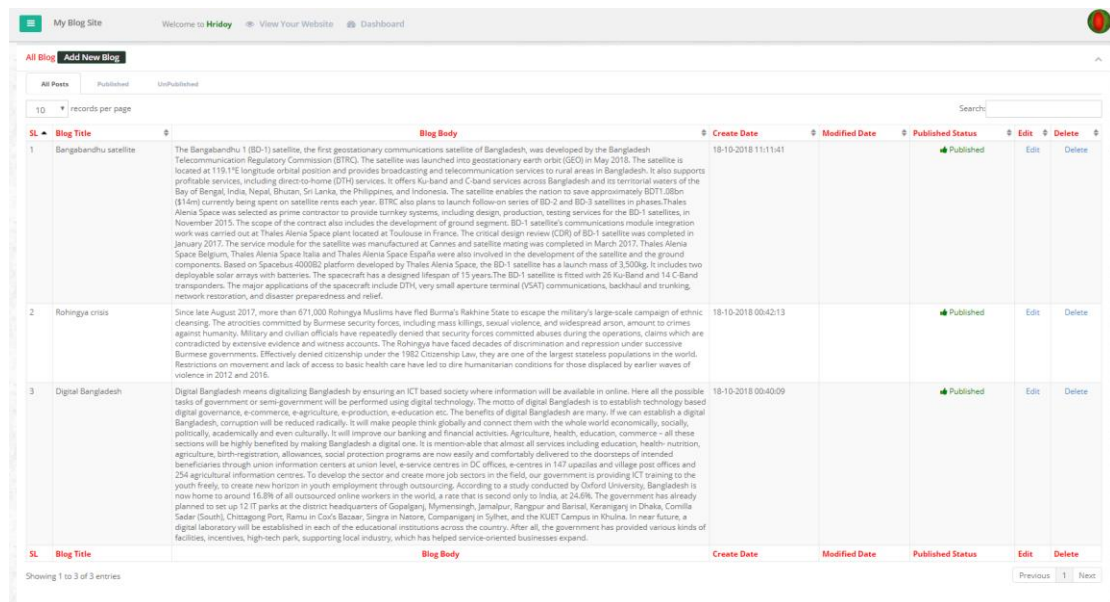


Figure 4.2.3: List of all posted articles

In Articles management part Admin control all types of posted Articles. In this part admin will be able to see all posted articles list. If admin want to published or unpublished, Edit or delete any articles he can do it.

SL	Full Name	User Name	Designation	Email	Role	Status	Action
1	Md. Nafiz Rahman Hridoy		Teacher	hridoy2@gmail.com	Teacher	Active	<a href="#">Edit</a> <a href="#">Delete</a>
2	Hridoy Khan			hridoy1@gmail.com	Students	Active	<a href="#">Edit</a> <a href="#">Delete</a>
3	Bipul Kumar das		Senior Teacher	bipulkumerdas@gmail.com	Teacher	Active	<a href="#">Edit</a> <a href="#">Delete</a>
4	Aman			aman@gmail.com	Student	Active	<a href="#">Edit</a> <a href="#">Delete</a>
5	Imran		Asis. Teachr	imran1@gmail.com	Teacher	Active	<a href="#">Edit</a> <a href="#">Delete</a>
6	Imran		Assosam Teacher	imran-1@gmail.com	Teacher	Active	<a href="#">Edit</a> <a href="#">Delete</a>
7	Ratul Khan			ratulkhan@gmail.com	Student	Active	<a href="#">Edit</a> <a href="#">Delete</a>
8	Imran			imran@gmail.com	Student	Active	<a href="#">Edit</a> <a href="#">Delete</a>
9	ashiq			ashiq@gmail.com	Student	Active	<a href="#">Edit</a> <a href="#">Delete</a>
10	Ratul		Head master	ratul@gmail.com	Teacher	Active	<a href="#">Edit</a> <a href="#">Delete</a>
SL	Full Name	User Name	Designation	Email	Role	Status	Action

Figure 4.2.4: List of all registered user

In user management part Admin can able to approving their registration those who can send a request for create account. Admin will able to see the list of User. Admin can ban user if any one create an occurrence.

Figure 4.2.5: User adding form at user management

In user management part also have a user adding feature from admin panel. If admin want to add someone they can add him.

Figure 4.2.6: Category adding form at category management

In this part Admin can added any category if they want or public demand. The can add or delete the category.

SL	Category Name	Create Date	Modified Date	Category Status	Edit	Delete
1	Essay	04-02-2018 19:00:54	18-10-2018 18:32:20	Published	Edit	Delete
2	Paragraph	04-02-2018 19:02:11	18-05-2018 08:40:38	Published	Edit	Delete
3	Article	14-12-2017 17:36:28	31-01-2018 18:40:08	Published	Edit	Delete
4	Summary	18-10-2018 18:01:20	18-10-2018 18:01:59	Published	Edit	Delete
5	Composition	18-10-2018 18:03:07		Published	Edit	Delete
6	Story	31-01-2018 18:38:56	31-01-2018 18:40:48	Published	Edit	Delete

Figure 4.2.7: List of category

### 4.3 Interaction Design and UX

Interaction Design is technique via using that developers are design their website interface more user friendly. There are many various types of Interaction Design. Which is Visual representation, Words, Time and behavior. In this system I have tried my best for build it with above Interaction. In below I described various types of Interaction.

Visual representation is an important part of any website. I can make a website more user Friendly. In this system I used common symbol and button. It helpful for any user to use this system.

I used very simple words in this system. Because Easy and common word make more Easy way for understanding of this system. This common word people are commonly used in their daily life. If used hard and rarely used word user can't understood that types of word. So I tried my best for maintain this part.

Time is big fact for using website. This system take less time for loading any pages. I have worked hard for made faster this system.

Via using this system any user can get a better user experience. And get good behavior from system.

UX or User experience is big part of any website. I ran some surveys in online and real life and get a feedback form them about their user experience. After that I ran some test on this website. I tested usability, I tested a remote user test for how better worked it. I also tested an accessibility. After finished all test the result is say that this system should be acceptable for any users.

#### **4.4 Implementation Requirement**

In previous discussion I mentioned this project is web based Application .So that I needed a different types of language for build this project. Like all others web project I used a HTML and Css for Front-End design. For creating a connection with database I used a PHP as server side language and other related operations. PhpMyAdmin used for store data for admin panel. SQL injection and php used for make security more strong. For testing this web application I need a temporary server so that I used xampp as a temporary server. I used a JavaScript as a client side language. I used MySQL for maintain all relation with database management system. I used AJAX for creating this website page as a dynamic. AJAX also used for Form validation feature. I also used a JSON for maintain all types of Data structured.

I used a CodeIgniter as base of this system. CodeIgniter is framework which is so strong and secure. For using this framework that gave me a MVC format which is helpful for maintain a big code. MVC have a three part which is Model, View and Controller.

# CHAPTER 5

## IMPLEMENTATION AND TESTING

### 5.1 Implementation of Database

In this part I explained about database of this project. In database have tables it was also explained in this part. I also explained about connection between tables. How and why I used tables for this project everything I cleared in this part.

For development of this project I used xampp for create a local server for deployment purpose. I tested this website helped with this local server. Also all updating work of this project was helped by xampp.

I create a database for this project and local server via using xampp. I needed a mysql and xampp for create database. This xampp provides me a GUI for maintain All data tables. As we know that this project was based on php so I must be need a xampp for develop this web based Application.

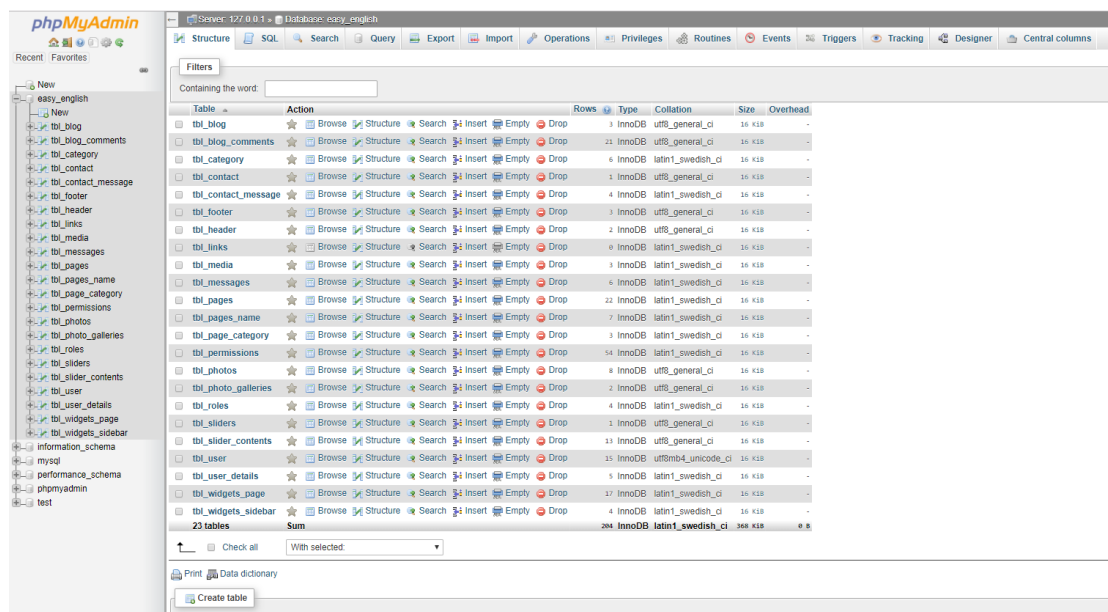


Figure 5.1.1: Table list of database

At first I have create a database which name is easy\_english. In this place I saved all data of this project. We see that there were many tables. This tables was used for different purpose. Every table are important for this project.



UserID	RoleID	FullName	Institute	User Name	Designation	Email	image	Password	Status	created	modified	Contact	Qualification
1	3	admin	Dhaka College	admin	Head master	hrbdyandan@gmail.com	4441_Cop1.jpg	827cc00eeea705c43a1689154a7b70	1	18-10-2018	18-10-23 09:16	01741499299	M.Sc
21	2	mahub	Dhaka City College	mahub.coc2019@gmail.com	Head master		4441_Cop4.jpg	827cc00eeea705c43a1689154a7b70	0	07-06-2019	23 00:44	1722150447	M.Sc
23	2	Ridoy	Dhaka City College	hrbdy@gmail.com	Head Master		images1.jpg	827cc00eeea705c43a1689154a7b70	1	08-06-2018	10 08:54	172551415	M.Sc
24	2	Ratul	Dhaka College	ratul@gmail.com	Head master		4441_Cop1.jpg	827cc00eeea705c43a1689154a7b70	1	2018-02-26 11:22:41		01722150447	M.Sc
26	1	asheq	Dhaka	asheq@gmail.com			37286141_208531854712765_454418961101684736_n.jpg	202cb9f2ac590756964607152d234b70	1	11-05-2018	23 29:16	245648	
27	1	Imran	Dhaka City College	imran@gmail.com			Abbbb.jpg	827cc00eeea705c43a1689154a7b70	1	2018-09-12		0172551415	
29	1	Ratul Khan		ratulhan@gmail.com			pic_300_300.jpg	827cc00eeea705c43a1689154a7b70	1	07-10-2018	11 15:15	0172551415	
31	2	Imran		imran1@gmail.com	Assistant Teacher		pic_300_300.jpg	827cc00eeea705c43a1689154a7b70	1	08-10-2018	18-10-18 40:46	0172551415	M.Sc
34	2	Imran		imran1@gmail.com	Asst. Teacher		123_cop1.jpg	202cb9f2ac590756964607152d234b70	1	2018-09-30	00:17:24	015645651231	M.Sc
35	1	Aman		aman@gmail.com			Phc_2_cop1.jpg	a19ac3949a915a89656a07020931a	1	18-10-2018	09:37:11	0253456456474	
36	2	Bipul Kumar das		bipulkumar05@gmail.com	Senior Teacher		41936266_2254048494825647_353226886364592128_n.jpg	827cc00eeea705c43a1689154a7b70	1	18-10-2018	09:23:19	00:14:25	Ba in English
37	1	hrbdy khan		hrbdy1@gmail.com			123_cop1.jpg	827cc00eeea705c43a1689154a7b70	1	18-10-2018	08:29:07	01741499299	
38	2	Md Nafar Rahman		hrbdy2@gmail.com	Teacher		123_cop1.jpg	827cc00eeea705c43a1689154a7b70	1	2018-10-26 11:09:50		01741499299	Ba in English
39	1	hrbdy		hrbdy3@gmail.com			123_cop1.jpg	827cc00eeea705c43a1689154a7b70	1	2018-11-20 13:29:48		01741499299	

Figure 5.1.2: User table in database

In here we see that I have created a table for users. This table have stored all registered user information. All user was approved by admin. This table have a some attribute which is userID , FullName, Institute, User Name, Designation, Email, image, password, status, contact, Qualification, gender, class. All attribute stored a different data which was given by user. It have also a RoleID that is separate the user types such as teacher and student. RoleID also use for others separately identification process.

BlogID	BlogTitle	BlogCategory	BlogClass/Category	BlogBoard	BlogBody	BlogImage	BlogStatus	BloggerName	Comment/Count	View/Count	created	modified	BlogBoardYear	BlogExam/Category
8	Digital Bangladesh	Paragraph	class 10	Dhaka	Digital Bangladesh means	img1-958479.jpg	1	38	1	18-10-2018	08:40:09	2018	S.S.C	
9	Romanga cross	Paragraph	class 10	Dhaka	671,000 Romanga Satellite August 2017, more than The Bangladeshu 1 (SD-1) satellite, the first geos.	68225651_303.jpg	1	38	1	18-10-2018	09:42:13	2017	JSC	
10	Bangladesh satellite	Paragraph	class 10	Dhaka	Bangladeshu 1 (SD-1) satellite, the first geos.	Bangladeshu-1.jpg	1	38	1	18-10-2018	11:11:41	2018	S.S.C	

Figure 5.1.3 Articles table in database

We see that in articles table have all information are stored in that space. Articles table have some attribute which have stored a different types of information.

ArticleID, ArticleTitle, ArticleCategory, ArticleClassCategory, ArticleBoard, ArticleBody, ArticleImage, ArticleStatus, UserID, ArticleBoardYear, ArticleExamCategory they have attribute of Articles table. UserID use from User table as a foreign key.

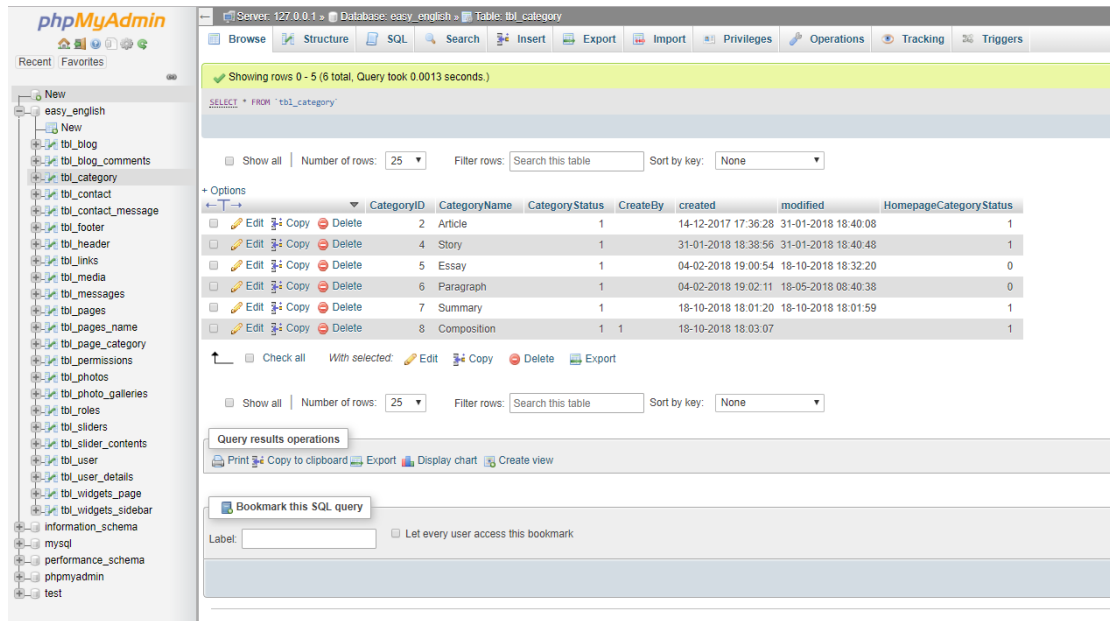


Figure 5.1.4 Category table in Database

This is a table of category. In here all types of Articles data was stored. Category table have a few attribute which is CategoryID, CategoryName, CategoryStatus.

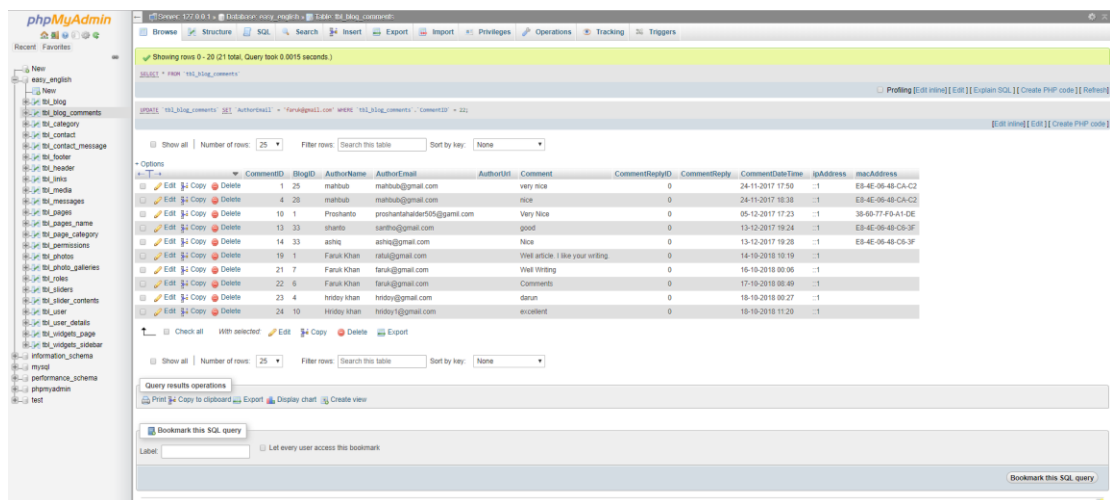


Figure 5.1.5 Comment table in database

It's a Comment table in database. There was stored all comment in database. Comment table have some attribute which is CommentID, ArticlesID, UserName, UserEmail, Comment. Here we see that ArticlesID Is Attribute from Articles table which is called as a foreignKey.

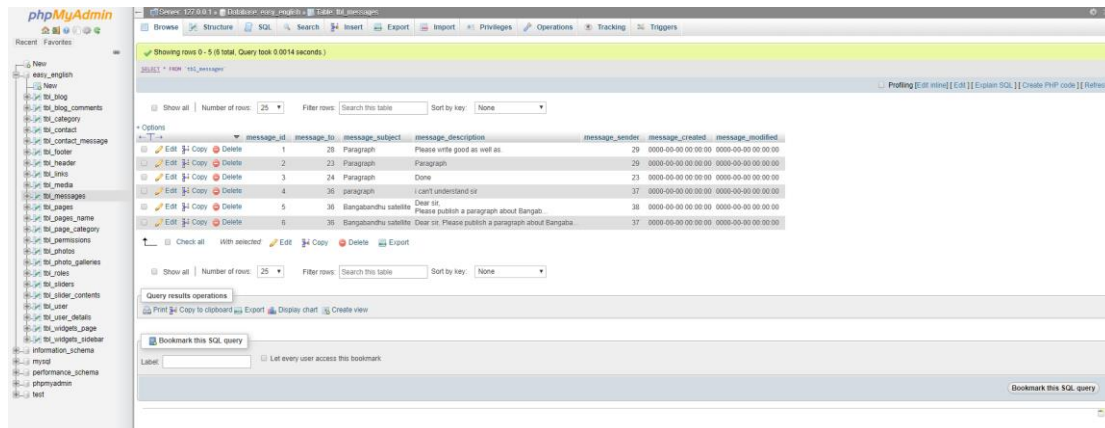


Figure 5.1.6: Message table in database.

Here we see that I create a table for messaging. In this table mainly for stored all messages which is send and received by user to user. Attribute of this table is message\_id, message\_to, message\_subject, message\_description, message\_sender.

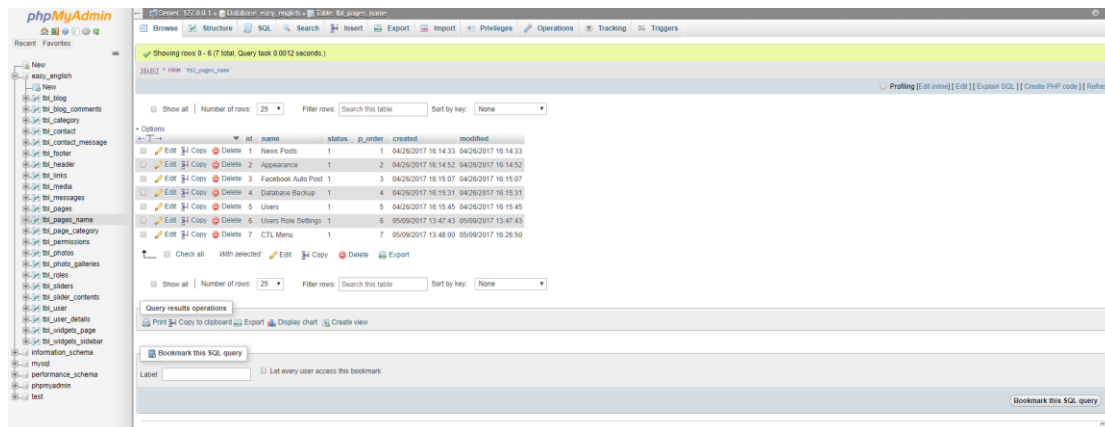


Figure 5.1.7: Pages Name table in database

This is a pages name table which is stored an additional information and data for all pages in this website.

id	role_id	user_id	pages_actions_id	add_permissions	edit_permissions	delete_permissions	created	modified
1	3	1	2	0	0	0	07-06-2017 18:10:39	07-06-2017 18:10:39
2	3	1	14	0	0	0	07-06-2017 12:20:00	07-06-2017 12:20:00
9	3	1	12	0	0	0	07-06-2017 12:23:18	07-06-2017 12:23:18
10	3	1	13	0	0	0	07-06-2017 12:23:18	07-06-2017 12:23:18
17	3	1	25	0	0	0	07-06-2017 13:11:14	07-06-2017 13:11:14
18	3	1	26	0	0	0	07-06-2017 13:11:14	07-06-2017 13:11:14
19	3	1	27	0	0	0	07-06-2017 13:13:31	07-06-2017 13:13:31
34	3	1	45	0	0	0	30-05-2017 17:44:26	30-05-2017 17:44:26
35	3	1	46	0	0	0	30-07-2017 17:44:39	30-07-2017 17:44:39
36	3	1	46	0	0	0	31-07-2017 11:26:25	31-07-2017 11:26:25
37	3	1	49	0	0	0	31-07-2017 11:26:25	31-07-2017 11:26:25
38	3	1	51	0	0	0	09-08-2017 10:48:02	09-08-2017 10:48:02
39	3	1	53	0	0	0	22-08-2017 13:07:01	22-08-2017 13:07:01
40	3	1	54	0	0	0	27-08-2017 12:33:43	27-08-2017 12:33:43
42	3	1	56	0	0	0	28-08-2017 18:05:36	28-08-2017 18:05:36
43	3	1	58	0	0	0	29-08-2017 10:48:57	29-08-2017 10:48:57
48	3	1	59	0	0	0	13-09-2017 10:43:01	13-09-2017 10:43:01
49	3	1	61	0	0	0	13-09-2017 10:43:01	13-09-2017 10:43:01
49	3	1	62	0	0	0	04-10-2017 15:16:46	04-10-2017 15:16:46
50	3	1	63	0	0	0	06-10-2017 15:22:55	06-10-2017 15:22:55
51	3	1	64	0	0	0	06-10-2017 15:18:43	06-10-2017 15:18:43
52	3	1	65	0	0	0	14-10-2017 11:59:27	14-10-2017 11:59:27
53	3	1	66	0	0	0	17-10-2017 16:26:20	17-10-2017 16:26:20
54	1	1	58	0	0	0	28-10-2017 12:12:25	28-10-2017 12:12:25
55	1	1	62	0	0	0	28-10-2017 12:12:25	28-10-2017 12:12:25

Figure 5.1.8: Permission table in database

In permission table stored all type of permission which have given by admin to user for accessing in this web based application.

id	role_name	edit_permissions	status	created	modified
1	Student	1	1	0000-00-00 00:00:00	0000-00-00 00:00:00
2	Teacher	0	1	0000-00-00 00:00:00	0000-00-00 00:00:00
3	Super Admin	1	1	0000-00-00 00:00:00	0000-00-00 00:00:00
4	Admin	1	1	0000-00-00 00:00:00	0000-00-00 00:00:00

Figure 5.1.9: Table of Roles in database

This table name is Roles. This table is one of the important table in this project. Because using this table Admin can create and change accessibility of users. Roles table have attribute which is RoleID on user table as a foreign key.

Options	slider_content_id	slider_id	slider_position	slider_image	slider_description	slider_status	created	modified
1	1	1	1	KINGDOM_C01_3.png	KINGDOM Stone Crusher	1	11-10-2017 16:52:25	11-10-2017 16:52:25
2	1	1	1	KINGDOM_C01_3.png	KINGDOM Engineering & Workshop	1	11-10-2017 16:52:30	11-10-2017 16:52:30
4	1	1	1	South_Sunam_Gong_Lipella_Front_View_copp.jpg	KINGDOM Builders Ltd.	4	11-10-2017 16:52:49	11-10-2017 16:52:49
12	1	1	1	Large_building_in_downtown_Miami.jpg	KINGDOM Dairy Farm	4	11-10-2017 16:54:15	11-10-2017 16:54:15
13	1	1	1	7L_43.png	KINGDOM Housing Ltd.	6	11-10-2017 16:54:28	11-10-2017 16:54:28
19	1	1	1	8MS_4734.jpg	KINGDOM Construction	0	26-09-2017 20:46:12	26-09-2017 20:46:12
20	1	0	0	7L_44.png	Beautiful Building	0	11-10-2017 16:58:04	11-10-2017 16:58:04
21	1	0	0	kingdom_md_2_fm.jpg	KINGDOM Engineering & Workshop	0	11-10-2017 16:58:13	11-10-2017 16:58:13
22	1	0	0	kingdomplan.gif	Building construction	0	11-10-2017 16:58:22	11-10-2017 16:58:22
23	1	1	1	7L_441.png	Building construction	0	11-10-2017 17:10:26	11-10-2017 17:10:26
24	1	0	0	kingdom_md_fm1.jpg	Building construction	0	11-10-2017 17:10:53	11-10-2017 17:10:53
25	1	1	1	248_F_12338808_UUARPHCHAP1V9vna6bJCHm27K7R1w	Building construction	0	11-10-2017 17:12:18	11-10-2017 17:12:18
26	1	1	1	vms.png	caption aaa	0	11-10-2017 17:12:30	11-10-2017 17:12:30

Figure 5.1.10: Table for sliders in database

Sliders table basically create for Sliders feature. In this website in Home pages have a sliders bars. Sliders was showing few banner which is related with this project. So the slider table was stored that types pf banner images.

## 5.2 Implementation of Front-End Design

In this part I described about Front-End Design. I also discussed about different types of code. In Front-End Design basically I need a HTML and CSS language. Now I explain which type code and where I used that type code with figure.

```

<div class="navbar-header">
  <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1">
    <span class="sr-only">Toggle navigation</span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
  </button>
  <a class="navbar-brand" href="{?php echo base_url(); }" style="font-size:50px;color:red;background: #96454c;font-weight: bold">Easy English</a>
</div>

<!-- Collect the nav links, forms, and other content for toggling -->
<div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
  <ul class="nav navbar-nav">
    <li class="active"><a href="{?php echo base_url(); }" style="background: transparent;">Home</a></li>
    <li><a href="{?php echo base_url(); }?home/about_us">About Us</a></li>
    <li><a href="{?php echo base_url(); }?home/contact_us">Contact</a></li>
    <?php if (!isset($_SESSION['logged_in'])) {
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Registration <span class="caret"></span></a>
        <ul class="dropdown-menu">
          <li><a href="{?php echo base_url(); }?home/teacher_registration">Teacher</a></li>
          <li><a href="{?php echo base_url(); }?home/student_registration">Student</a></li>
        </ul>
      </li>
    }
  </ul>
  <?php endif; ?>
</div>
<div class="col-md-3" style="width: 13%; margin-top: 6px;">
  <div class="text-center center-block" style="margin-top: 10px;">
    <a target="_blank" href="https://www.facebook.com/easyenglish4363" style="color:#fff;font-size: 10px;"><i class="social-fb fa fa-facebook-square fa-3x social"></i></a>
    <a href="#" style="color:#fff;font-size: 10px;"><i class="social-tw fa fa-twitter-square fa-3x social"></i></a>
    <a href="#" style="color:#fff;font-size: 10px;"><i class="social-gp fa fa-google-plus-square fa-3x social"></i></a>
    <a href="#" style="color:#fff;font-size: 10px;"><i class="social-em fa fa-envelope-square fa-3x social"></i></a>
  </div>
</div>
<div class="col-md-3" style="width: 13%; margin-top: 6px;padding:0px;">
  <div id="google_translate_element" style="margin-top: 10px;"></div>
</div>
<ul class="nav navbar-nav navbar-right">

```

Figure 5.2.1: Some part of code which was used for header

In this code we see that part was used of header. I declare div class for all types of button and others option such as Home, About us, Contact, Registration option. Also

use a various types HTML tag for mentioning different types of social link. I used various types of Css code for designed this part.

```
<?php
$this->load->model('Home_Model');

$this->all_author_published_recent_blog_find = $this->Home_Model->all_author_published_recent_blog_finding();
$this->all_author_published_comments_blog_find = $this->Home_Model->all_author_published_comments_blog_finding();
$this->all_author_published_blog_find = $this->Home_Model->all_author_published_blog_finding();

$get_recent_comments_data = $this->Home_Model->get_recent_comments_data();
$this->get_all_published_home_category = $this->Home_Model->all_home_published_category_finding();
?>

<div class="col-md-4">

<div class="recent">
<h4 style="text-align:center;color:white; background-color:#555; margin-top:20px;">RECENT POSTS</h4>
<ul><?php foreach ($all_author_published_recent_blog_find as $key => $value): ?>
<li>
<a style="color:green;" href="<?php echo base_url(); ?>home/single_blog/<?php echo $value['BlogID']; ?>"><?php echo $value['BlogTitle']; ?></a>
</li>
</ul>
</div>

<div class="comments">
<h4 style="text-align:center;color:white; background-color:#555; margin-top:20px;">RECENT COMMENTS</h4>
<ul>
<?php foreach ($all_author_published_comments_blog_find as $key => $value): ?>
<li>
<a style="color:green;" href="<?php echo base_url(); ?>home/single_blog/<?php echo $value['BlogID']; ?>"><?php echo $value['BlogTitle']; ?></a>
</li>
</ul>
</div>

<div class="clearfix"></div>

<div class="categories" style="text-align:left">
<h4 style="text-align:center;color:white; background-color:#555;">CATEGORIES</h4>
<ul>
<?php foreach ($get_all_published_home_category as $key => $value): ?>
<li>
<a style="color:green;" href="<?php echo base_url(); ?>home/categoryWiseData/<?php echo $value['CategoryID']; ?>"><?php echo $value['CategoryName']; ?></a>
</li>
</ul>
</div>

<div class="clearfix"></div>
```

Figure 5.2.2: Some part of code which was used for Articles

In this part we see that this code was used for Articles showing purpose. I used php language for connected this code with Home model files. In this part defined some class and simple function for showing all latest post articles at home pages which was posted by teacher.

```

<?php foreach ($all_author_published_blog_find as $key => $value): ?>
<div>
<div class="content-grid-info single_border " >
<div class="post-info panel-body hover01 column" style="padding:5px 0 0 0">

<div class="col-md-12">

<div class="post col-md-12">
<!-- <header class="blog title"> -->
<div class="col-md-4">
<h3 style="text-align:left">
<a style=" text-decoration: none !important; font-size: 30px; padding-left: 5px;" href="<?php echo base_url(); ?>home/single_blog/<?php echo $
value['BlogID']; ?>"><strong><?php echo $value['Blogtitle']; ?></strong>
</h3>
</div>
<div class="col-md-8">
<div class="col-md-8" style="margin-top: 20px;">
<span style="margin-top: 20px; margin-right: 10px; font-size: 13px;">By </span>
<span style=" margin-top: 20px; font-size: 12px;"><?php echo $value['FullName']; ?></span>
</div>
<div class="col-md-4">
<?php if (empty($value['image'])): ?>
<a href="<?php echo base_url(); ?>home/single_blogger_blog/<?php echo $value['UserID']; ?>">


</a>
<?php endif ?>
</div>
</div>
<!-- </header"> -->
</div>
<div class="col-md-12">
<div class="blog_time title_bar">
<h5 >
<span style="text-align:left ;">
<?php echo $value['created']; ?></span>
<span style="text-align:right ; margin-left:20px;"><?php echo $value['BlogClassCategory']; ?></span>
<span style="text-align:right ; margin-left:20px;"><?php echo $value['BlogBoard']; ?> Board</span>
<span style="text-align:right ; margin-left:20px;"><?php echo $value['BlogBoardYear']; ?></span>
</h5>
</div>
</div>
</div>
</div>

```

Figure 5.2.3: Some part of Code which was used for All Articles

```

<div class="">
<div class="gallery">

<div class="">
<div id="carousel-example-generic" class="carousel slide" data-ride="carousel" data-interval="4000">
<div class="carousel-inner" role="listbox">

<div class="item active">

<h5><a href="#"></a></h5>
</div>

<div class="item">

<h5><a href="#"></a></h5>
</div>

<div class="item">

<h5><a href="#"></a></h5>
</div>

<div class="item">

<h5><a href="#"></a></h5>
</div>

<div class="item">

<h5><a href="#"></a></h5>
</div>
</div>
<a class="left carousel-control" href="#carousel-example-generic" role="button" data-slide="prev">
<span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
<span class="sr-only">Previous</span>
</a>
<a class="right carousel-control" href="#carousel-example-generic" role="button" data-slide="next">
<span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
<span class="sr-only">Next</span>
</a>
</div>
</div>
</div>

```

Figure 5.2.4: Some part of code which is used for slider feature

This code was used for slider. In this code I define location and serial of banner image which was stored on database. And slideshow time fixed by bootstrap.

### **5.3 Implementation of Interactions**

I used HTML and HTML5 for designing purpose of this system layout. I also used Css and Css3 for customizing purpose. I used bootstrap for supported this website on any kind of platform and cross browser support. And bootstrap also make more responsive to this website. Now described how to work all types of language which was used on this web based application. When user or visit on this website one request go to the server side server are start queries to database. Then the home page are load on the browser. Now HTML defines what think is this, Css are defines that how look like that, JavaScript define any special Interactions. I used Ajax for increase less time consuming of browsing experience. Ajax are allowed a load data from database without refreshing any pages. Ajax are helpful for form fill-up and others purpose.

### **5.4 Test Implementation**

I tested this web based application with various test tools. Because we know that without test implementation it can't be possible to lunch this website. In the below I showed the test Report and Result with figure.



## 5.5 Test Report and Result

Here is a test case report and result.

Test scenario id	Test case Id	Test case name	Test case description	Test case step	Expected result	Actual Result	Test case status pass/fail
1	Admin Login	Validate Login	For verify login option on Admin panel	Go to the Admin login page provide the username and password	Login successfully or login failed message are displayed on the screen	Login successfully	Pass
2	User Registration	Validate Registration	For verify registration option on registration page	Go to the registration option provide required information	Registration Successfully or please fill out this field	Registration Successfully	Pass
3	User Login	Validate Login	For verify login option on the user login panel	Go to the user login panel provide the username and password	Login successfully or login failed message are displayed on the screen	Login successfully	Pass
4	Post Articles	Validate Post	For verify post any articles on Articles page	Go to the User profile provide the articles related information click post button	Post successfully or please fill out this field	Post successfully	Pass
5	translate	Validate translate	For verify translate any Articles on Articles page	Go to the Articles page select the translate button	Translate the post	Translate successfully	Pass

6	Message	Validate message	For verify message send and receive feature on messaging option	Go to the User profile select the message option provide required information send the message	Send message or failed	Message send successfully	Pass
7	Comment	Validate comment	For verify comment option	Go to the any articles post drop down and provide the required information with comment	Comment posted or failed	Comment posted	Pass
8	Rating	Validate Rating	For verify rating option	Go to the any articles post drop down and click over the rating	Rating added or failed	Rating added	Pass

After finished all types of tests we see that all the result was accurate. So that I say that this web based application are error less and acceptable to user.

## CHAPTER 6

### CONCLUSION AND FUTURE SCOPE

#### 6.1 Discussion and Conclusion

The reason of build this system for learning English easily via using this web based application. This a big platform to learn English with Bangla meaning. It provided that opportunity to gather all teacher and student on online platform. Student could discuss about their issue or problem about learning English.

During the development of this web based application. I have learned about principle of web application. I had to learn HTML, Css, PHP, JavaScript, JQuery, Json, Ajax and MySQL. I have also learned about framework of PHP which is called a CodeIgniter.

#### 6.2 Scope for future development

In this project have a big scope for further development. Android apps will build based on this project. In future added more new option such as one click solution for translating articles, Email sending option.

There are no image or attach file sending via message option. I will build this feature in future.

This project also helpful for researched based work. Because this project have big data based to store all information about English articles. So that have to big opportunity for researched based work.

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## Appendix

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### Appendix A: Project Reflection

The Table below provides information about project.

<b>Name</b>	<b>Description</b>
HTML	Hypertext Markup Language. HTML is standard language for creating any web pages or web based application.
Css	Cascading Style sheets. Css is a Style sheet language That is use for designing purpose of any web based application.
PHP	Hypertext preprocessor. PHP is server-side scripting language. PHP used as a programming purpose.
Javascript	Javascript is a programming language. Mainly use for web development.
JQuery	JQuery is a concise and fast Javascript library that can be used to simplify event, HTML document.
JSON	Javascript Object Notation. It is a text based data exchange format for structuring data. Mainly use for exchange data between web based application and server.
Ajax	Ajax is method of exchanging data with a server and updating parts of a web page without reloading the entire page.
CodeIgniter	CodeIgniter is Framework which is based on PHP.