

**DEVELOPMENT OF BDFACE – A SOCIAL NETWORKING SITE BY**

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

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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

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## **APPROVAL**

This Project titled “**BDFace-a Social Networking Site**”, submitted by Nayeem U Zaman Hridoy, ID: 171-15-1366 and Khirul Islam, ID: 171-15-1375 and Dhiman Roy, ID: 171-15-1385 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 December 8, 2020.

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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Mr. Ohidujjaman, Sr. Lecturer, Department of CSE** 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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## **ABSTRACT**

BDFace – a Social Networking Site is a new social networking website in our country. People of our country use many kinds of social networking site like Facebook, twitter, Instagram and more like these. By using those social sites, they can communicate with their friends and can share their feelings, ideas, important news and many more things. As like these sites our site BDFace will also include these types of features. By using our site (BDFace) we can also communicate with their friends and can share their feelings, ideas, important news and many more thing. We can also share our new invention ideas with other, we can be able to do group wise communication with friends and many important persons. We can send messages to each other's. Users can also manage their privacies and manage their posts. BDFace will help its users to communicate with each other easily.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

BDFace – a Social Networking Site is a new website in our country. People of our country use many kinds of social networking site like Facebook, twitter, Instagram and more like these. By using those social sites, they can communicate with their friends and can share their feelings, ideas, important news and many more things. As like these sites our site BDFace will also include these types of features. By using our site (BDFace) we can also communicate with their friends and can share their feelings, ideas, important news and many more thing. We can also share our new invention ideas with other, we can be able to do group wise communication with friends and many important persons. We can send messages to each other's. Users can also manage their privacies and manage their posts. BDFace will help its users to communicate with each other easily.

### 1.2 Motivation

Probably there is not such social site like **BDFace** for our country. If we develop that site, we can work for our information security. Sometimes we cannot able get our actual needed information like security, business, study etc. We can provide that types of information through our website.

### **1.3 Objective**

1. To make information system secure.
2. To prevent crime which done by social sites.
3. Urgent needed information will be get easily against any crime done by this site.
4. To provide secure communication system in Bangladesh

### **1.4 Expected Outcome**

This site will be one of the best social website for our country. By using this site, we can communicate with our friends and we can share our feelings, ideas, important news and many more things. We can also share our new invention ideas with other, we can be able to do group wise communication with friends and many important persons.

# **CHAPTER 2**

## **BACKGROUND**

### **2.1 Introduction**

BDFace is a social networking site which is an important part of information technology and entertainment website, where people can share their opinions, can send messages and many other works.

This social network has two types of users.

- Admin
- Users

First of all, users need to create an account and can get access to the account by logging in. They can update their profile and share their opinions through posting in this site. On the other hand, an admin can be able to control users account such as any harmful activity or any kinds of activity against our terms and conditions. Admin also can delete or add a user.

### **2.2 Related Work**

In the field of market there is a lot of similar work have been done yet. We can see some social networking site that have been created by some organizations. Just as like we can see Facebook, Twitter, Instagram etc. have used add management system and video viewing or live video system. We can give an example: In Facebook, there have been add management system and live video system which are used by many people and organizations.

## **2.3 Comparative Studies**

Purpose: In Bangladesh, almost all popular social networking site is available to use for free. That's why a huge number of people of our country use these social networking site. And there are many types of crimes and unusual activity happened through these sites. And for the security purposes if our nation need information about those crimes it takes much times and sometimes no information found correctly. So if we start using this site we can reduce the crime rate through social networks.

Design/Methodology/Approach: Our work is presented through the survey of the online platforms issues and information crimes. By getting depth knowledge about our nations information crimes and issues we decided to develop such a social network site for our country.

Originality/Value: Our project is very much valuable special for the people of our country.

## **2.4 Scope of the problem**

If we implement our social networking site for public use, there are some problem should face by the people such as less features than other social networks and some problem to face for mobile device users. BDFace will be fully friendly and smooth use for mobile device as soon as possible.

## **2.5 Challenges**

Now-a-days peoples are using smartphones mostly. Our project is developed with web based application. This is not a mobile based application. So we are interested to develop this project in mobile application. In future we have a plan to develop this project in Android application. So people can easily use this system in their smartphones.

# CHAPTER 3

## REQUIREMENT SPECIFICATION

### 3.1 Business Process Model:

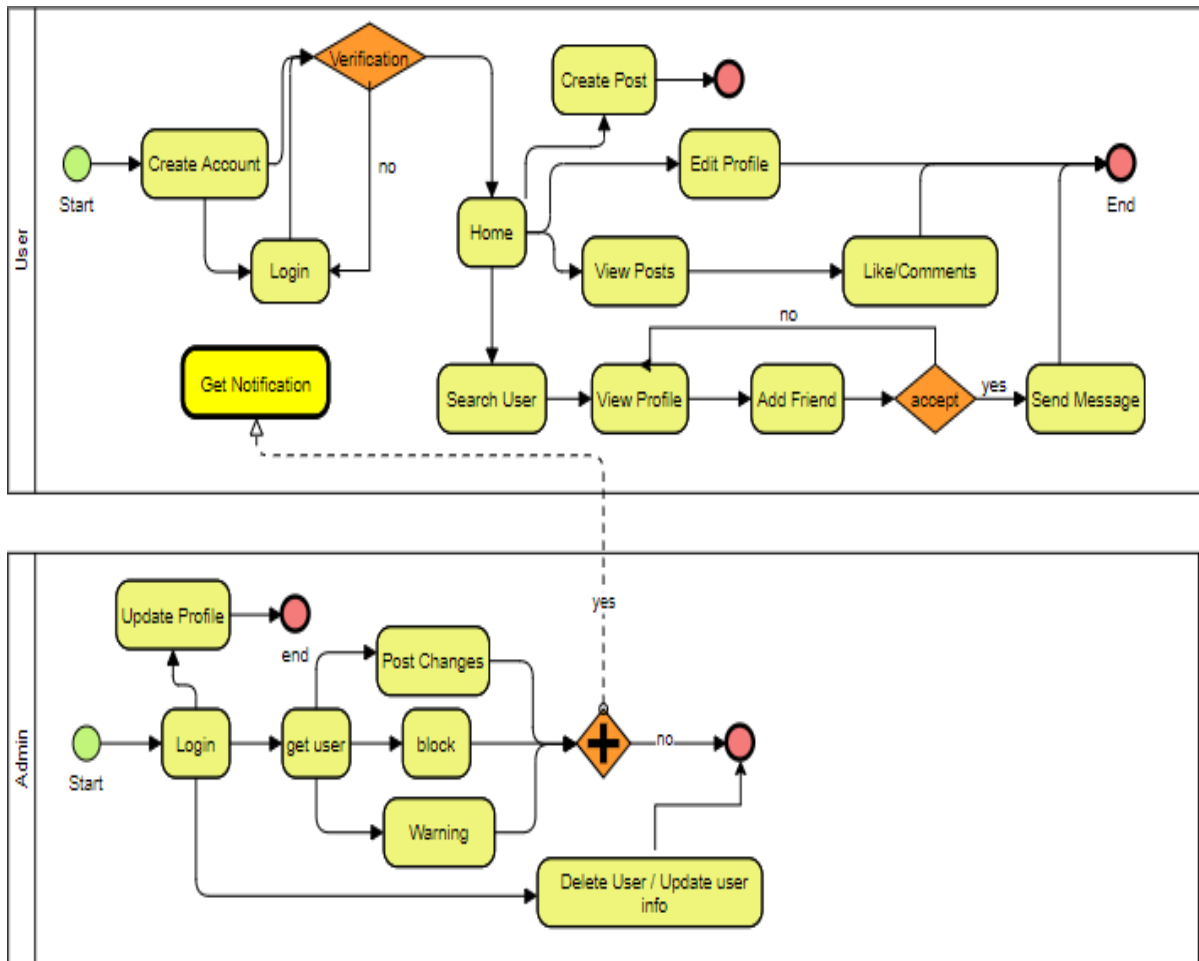


Figure 3.1: Business Process Model

### **3.2 Requirement Analysis:**

Our project is BDFace – a Social Networking Site. Following to the requirement this project is originating and developed. In a system requirement is categorized into two types that is Software and Hardware requirements.

#### **3.2.1 Admin Requirement:**

In this system admin is an important actor. Admin controls the system. Admin can control users, user posts and other internal functions. Admin can add or update users. Admin can also view information users and do necessary information update on demand. Admin can monitor all types of activities.

List of the key requirements:

- Add User
- Delete User
- Update User Information
- Control User Posts and Activities
- Maintain Site Security.

#### **3.2.2 User Requirement:**

To access system as a user, every user has to be create and verify account first and then login to server. User can see own and friends post in home page. User can share posts, view and update their profile, can send friend request, like post, comment on posts and share posts. Users can also send private messages to their friends.

List of the key requirements:

- Search User
- View Profile
- Edit Profile
- Add Friends



- Share Post
- Like, Comment on Posts
- Create Own Posts.

### 3.2.3 Technical and Legal Requirement:

The system should be design as to ensure that they continue to work efficiency that the observation with relevant legislation and to check that they are safe guarded from threats such as virus and hackers. The requirements are listed below:

- Data protection facilities and Security data transmission facilities.
- Protection facilities against hacker and cracker and Protection against virus.
- Protection users and admins from Hacker.

### 3.2.4 Requirements Components:

By completing this project, we require hardware and software components that is given below.

#### 3.2.4.1 Hardware Requirements:

We need internet connection and minimum one computer to carry out this project.

Table 3.2.5.1: Hardware Requirement

Processor	Intel Pentium Dual Core or above
Motherboard	Any
Ram	512 or more
Hard Disk	50GB
Monitor	Any Color Monitor
Keyboard	Any
Mouse	Any

### 3.2.4.2 Software Requirements:

Table 3.2.5.1: Hardware Requirement

Software	Usage
Windows xp,7,8,9,10 operating system	Any
Browser	Google Chrome, Mozilla Firefox, Internet Explorer and any browsing web that justify JS, JQuery.

### 3.3 Use Case Modelling and Description:

Relationship and interaction between various types of users and the system in happened in a Use case model. In a use case model, by interacting user and application we can get solution for a problem.

### 3.3.1 Use Case Model (Users):

Relationship and interaction between various types of users

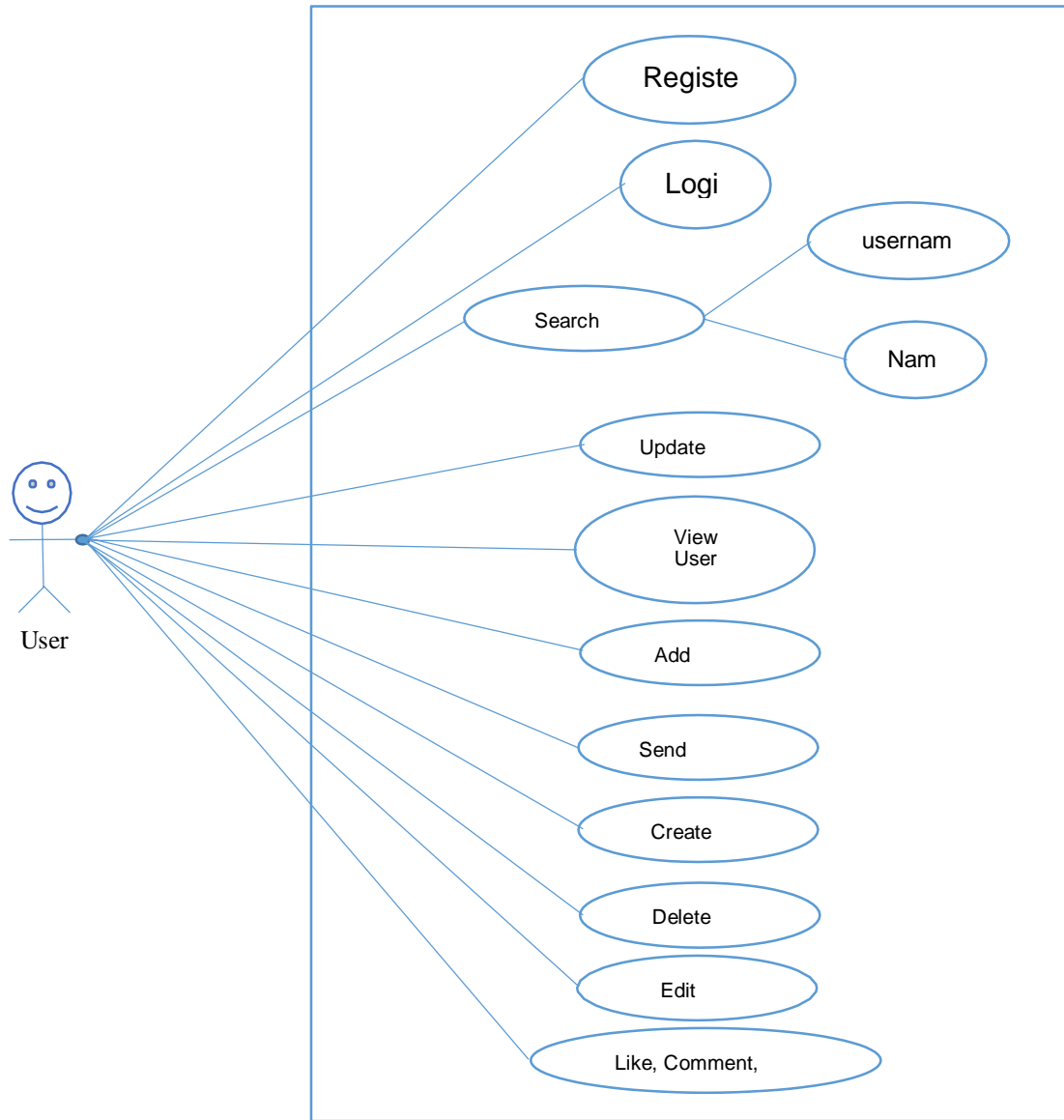


Figure 3.3.1: Use Case Model (User)

### 3.3.2 Use Case Model (Admin):

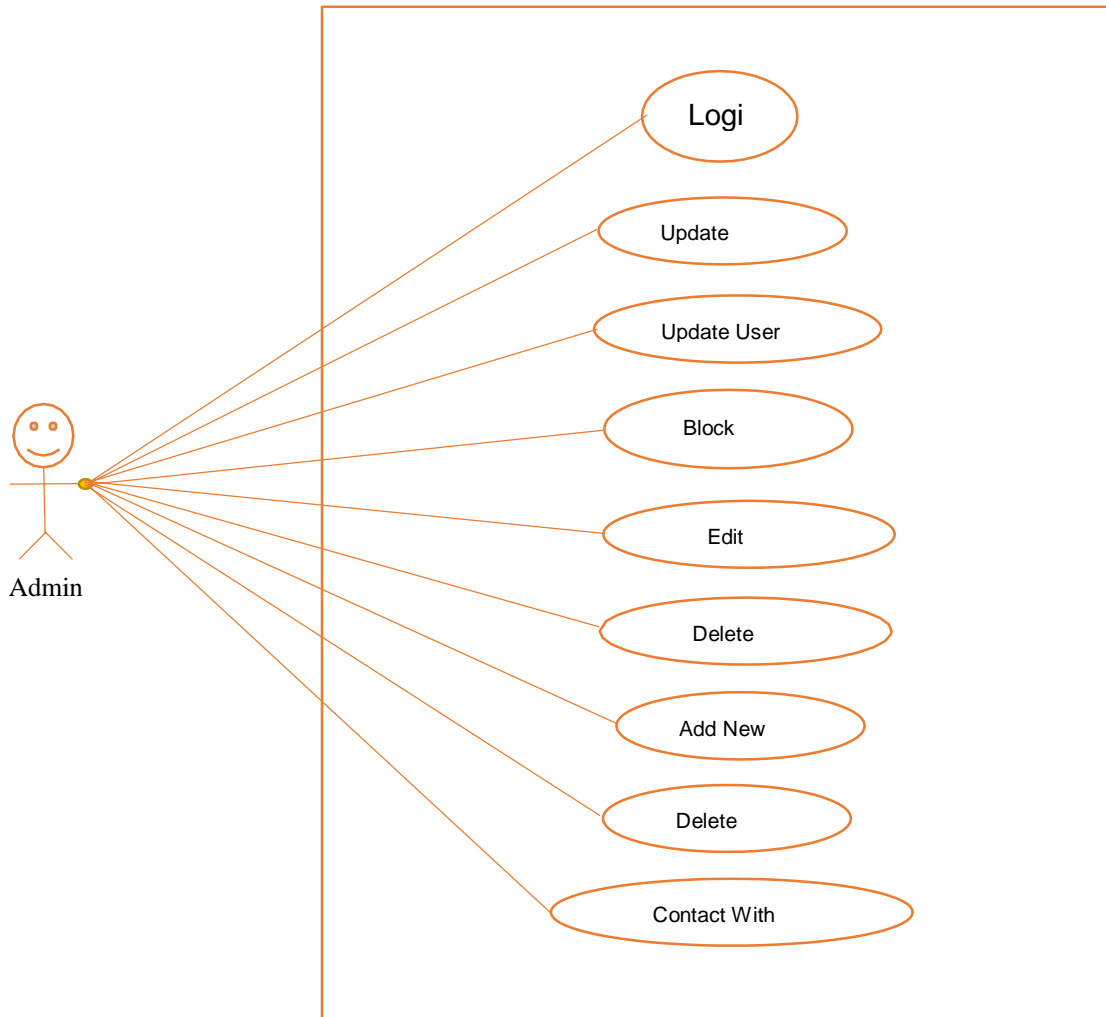


Figure 3.3.2: Use Case Model (Admin)

### 3.3.3 Use Case Description:

Table 3.3.3: Use Case for Register

Case st. id	1
Case st. Name	Register
Description	User can register to this site.
Primary actor	User
Secondary actor	None
Precondition	None
Post condition	None

Table 3.3.4: Use Case for Login

Case Statement Id	2
Case Statement Name	Login
Description	User and Admin can login and can see other pages.
Primary actor	Admin, User
Secondary actor	None
Precondition	User must be registered to log in the system.
Post condition	None

Table 3.3.5: Use Case for Search User

Case Statement Id	3
Case Statement Name	Search User
Description	user and admin can search for another user.
Primary actor	Admin, User
Secondary actor	None
Precondition	None
Post condition	None.

Table 3.3.6: Use Case for Update Profile

Case Statement Id	4
Case Statement Name	Update Profile
Description	With this case profile can be updated
Primary actor	Users and admins
Secondary actor	None
Precondition	Admin and user must be logged in.
Post Condition	None

Table 3.3.7: Use Case for User Profile

Case Statement Id	5
Case Statement Name	View User Profile
Description	User and admin can see users profiles.
Primary Actor	Users and admins
Secondary Actor	None
Precondition	Admin and user must be logged in.
Post Condition	None

Table 3.3.8: Use Case for Add Friend

Case Statement Id	6
Case Statement Name	Add Friend
Description	user can send friend request to another user.
Primary Actor	Page users
Secondary Actor	None
Precondition	User must be logged in.
Post Condition	None

Table 3.3.9: Use Case for Send Message

Case Statement Id	7
Case Statement Name	Send Message
Description	Users can send private messages to one another.
Primary Actor	Site users
Secondary Actor	None
Precondition	User should logged in and be friends with other user.
Post Condition	None

Table 3.3.10: Use Case for Create Post

Case Statement Id	8
Case Statement Name	Create Post
Description	users can share their own posts.
Primary Actor	Users
Secondary Actor	None
Precondition	Users should be logged in.
Post Condition	None



Table 3.3.11: Use Case for Delete Post

Case Statement Id	9
Case Statement Name	Delete Post
Description	user can delete posts. Admin also can delete users posts.
Primary Actor	Users
Secondary Actor	Admins
Precondition	User and admin should logged in.
Post Condition	None

Table 3.3.12: Use Case for Edit Post

Case Statement Id	10
Case Statement Name	Edit Post
Description	user can edit posts. Admin also can edit users posts.
Primary Actor	Users
Secondary Actor	Admins
Precondition	User and admin should logged in.
Post Condition	None

Table 3.3.13: Use Case for Like, Comment, Share

Case Statement Id	11
Case Statement Name	Like, Comment, Share
Description	user can like another users post, comment on posts and share posts.
Primary Actor	Users
Secondary Actor	None
Precondition	User should logged in and be friends with post owner user.
Post Condition	None

Table 3.3.14: Use Case for Update User Info

Case Statement Id	12
Case Statement Name	Update User Info
Description	admin can update user profile.
Primary Actor	Admins
Secondary Actor	Users
Precondition	Admin should logged in.
Post Condition	None

Table 3.3.15: Use Case for Block User

Case Statement Id	13
Case Statement Name	Block User
Description	admin can block a user for violating rules of BDFace.
Primary Actor	Admins
Secondary Actor	Users
Precondition	Admin should logged in.
Post Condition	None

Table 3.3.16: Use Case for Add New User

Case Statement Id	14
Case Statement Name	Add New User
Description	admin can add new user manually.
Primary Actor	Admins
Secondary Actor	None
Precondition	Admin should logged in.
Post Condition	None

Table 3.3.17: Use Case for Delete User

Case Statement Id	15
Case Statement Name	Delete User
Description	admin can delete user with correct reason.
Primary Actor	Admins
Secondary Actor	Users
Precondition	Admin should logged in.
Post Condition	None

Table 3.3.18: Use Case for Contact with User

Case Statement Id	16
Case Statement Name	Contact with User
Description	admin can contact with user for any kinds of inquiry.
Primary Actor	Site admins
Secondary Actor	Site users
Precondition	User and admin must be logged in.
Post Condition	None

### 3.4 Logical Data Model:

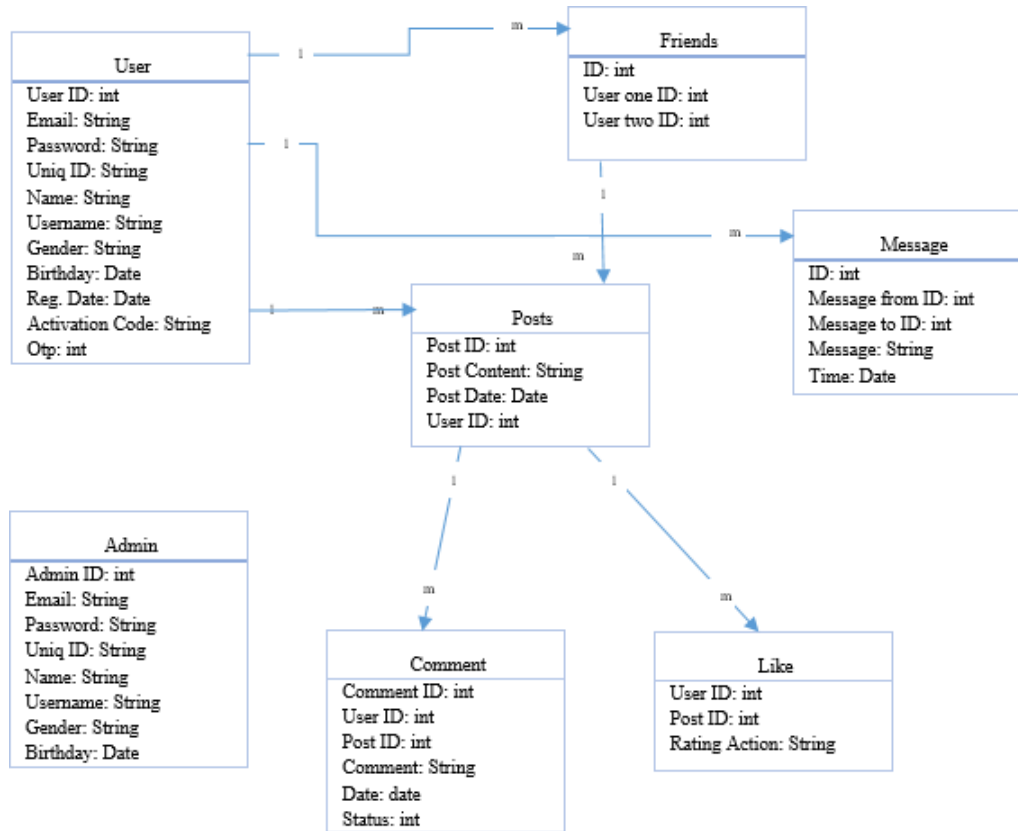


Figure 3.3.1: Logical Data Model

# CHAPTER 4

## DESIGN SPECIFICATION

### 4.1 Front-end Design:

For completing front-end development of the project, we used three primary languages, frameworks and also some libraries.

- HTML
- CSS
- Bootstrap
- JavaScript
- Libraries like JQuery, Ajax

#### 4.1.1 HTML:

Hypertext Markup Language (HTML) helps users to create websites sections, site paragraphs, site headings, site links, web page. HTML is not a programming language; we cannot create dynamic functionality websites by using HTML.

#### 4.1.2 Cascading Style Sheet:

CSS is a design language is used for make a web page attractive and presentable to users and visitors.

### **4.1.3 JavaScript:**

JavaScript is a scripting language used for making websites more attractive. JavaScript is mainly used for make the interaction connection with users and websites. In other words, we can make our website more attractive and interactive with the help of JavaScript.

## **4.2 Back-End Design:**

We used some primary languages, frameworks in back-end design to develop the project.

- Server-side language: PHP
- Database tool: MySQL server

### **4.2.1 PHP: Hypertext Preprocessor:**

PHP is an interactive, and a powerful language for the server scripting. PHP is used to create dynamic web pages. PHP is a widely-used, free to use, has largest developer community. It is very flexible and has many innovative features. All PHP features and updates are available free of charge.

### **4.2.2 MySQL:**

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MySQL name is a combination of My and SQL. MySQL is a database management system that enables to manage databases (Relational). It is open source software provided by Oracle. MySQL database is easier than other database management system. MySQL can run on various platforms like windows, Linux, Unix etc. It also can install in desktop. MySQL database management system is reliable, scalable, and faster.



# CHAPTER 5

## DESIGN SPECIFICATION

### 5.1 Implementation of Database:

Implementing or deploying the database is the process of installing, configuring and customizing database software, running, testing, integrating with applications. Its various stages and processes are the following.

#### 5.1.1 Entity Relationship Diagram:

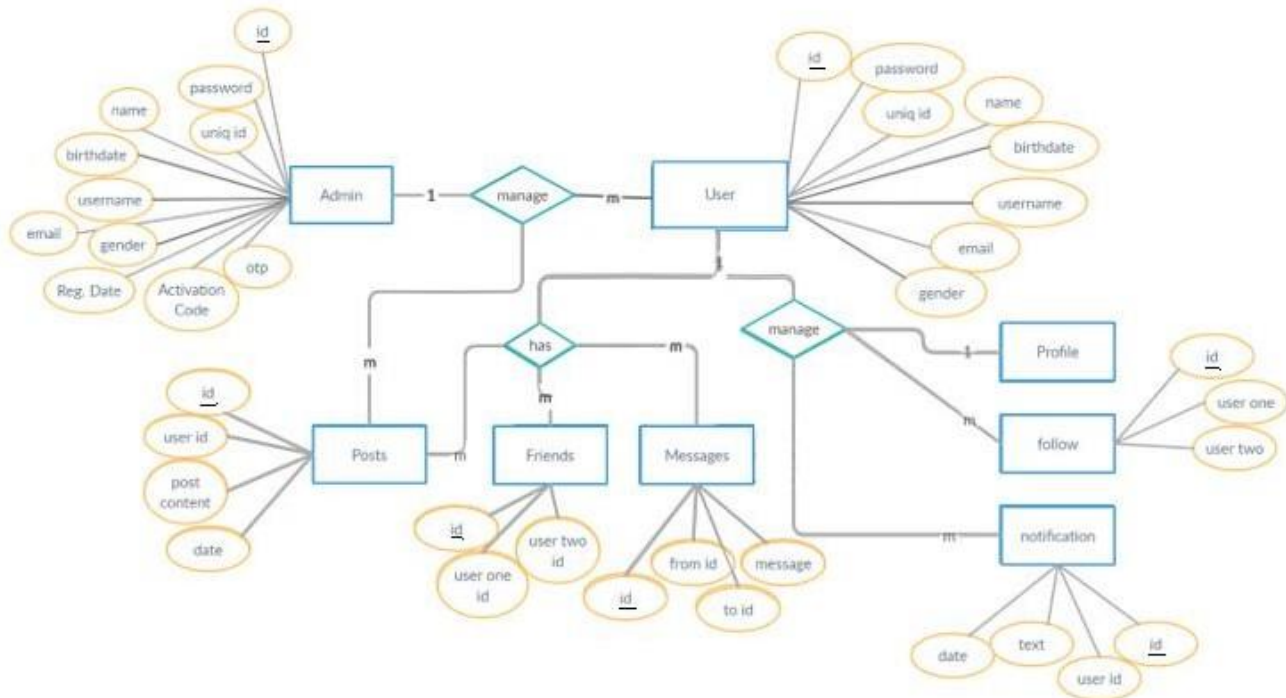


Figure 5.1.1: Entity Relationship Diagram

## 5.2 Implementation of Front-end Design:

Improvement of the customer side of WA is called front-end advancement and frontend (FE) itself is then comprehended as each substance client can see and can connect within a program. It's typically a blend of Hypertext Markup Language (HTML), Cascading Style Sheet (CSS) and JavaScript (JS). Each of these dialects is deciphered and controlled by an internet browser that creates a website page -interface client can cooperate with. The site is called the set of all accessible pages.

### 5.2.1 BDFace Main Page (Welcome Page):

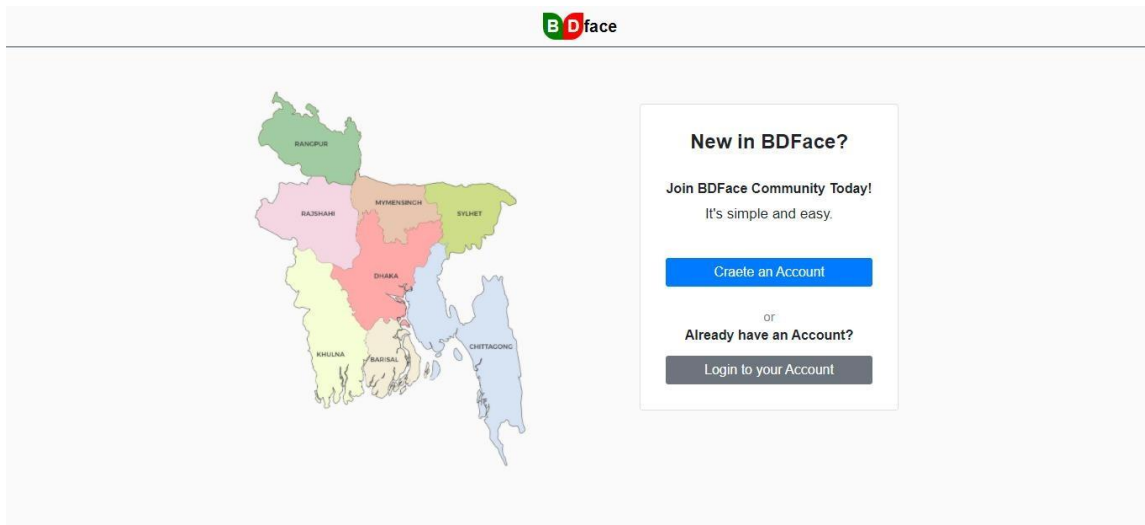


Figure 5.2.1 Home Page View for All User

## 5.2.2 BDFace Login Page:

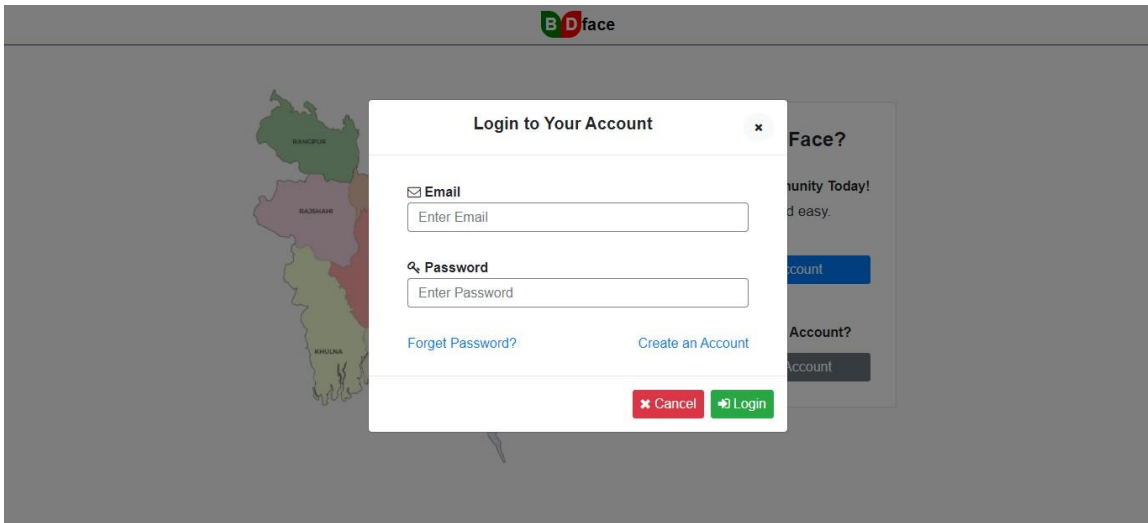


Figure 5.2.2 Login Page View for All User

## 5.2.3 BDFace Signup Page:

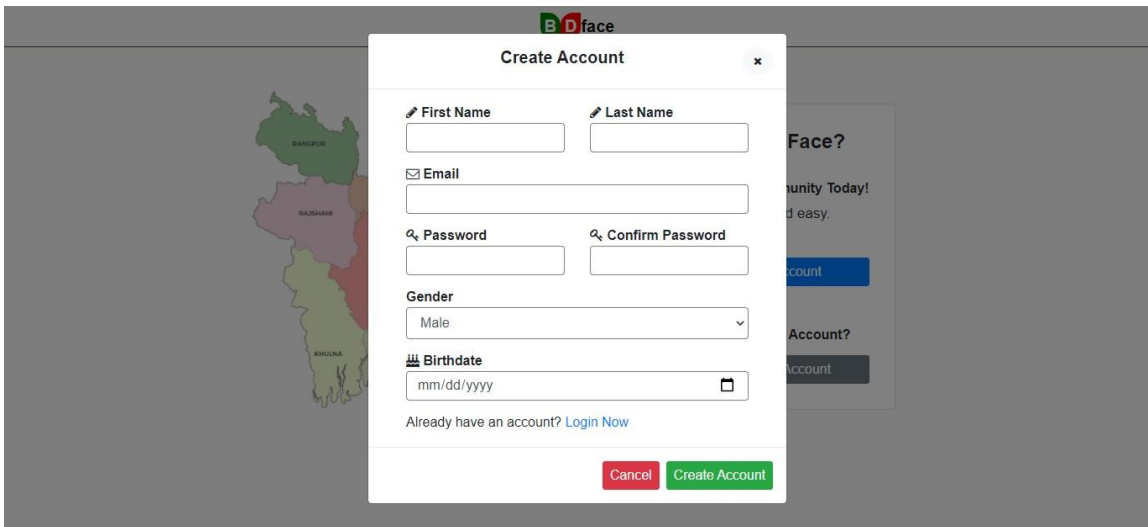


Figure 5.2.3 Signup Page View for All User

## 5.2.4 BDFace Password Reset Page:

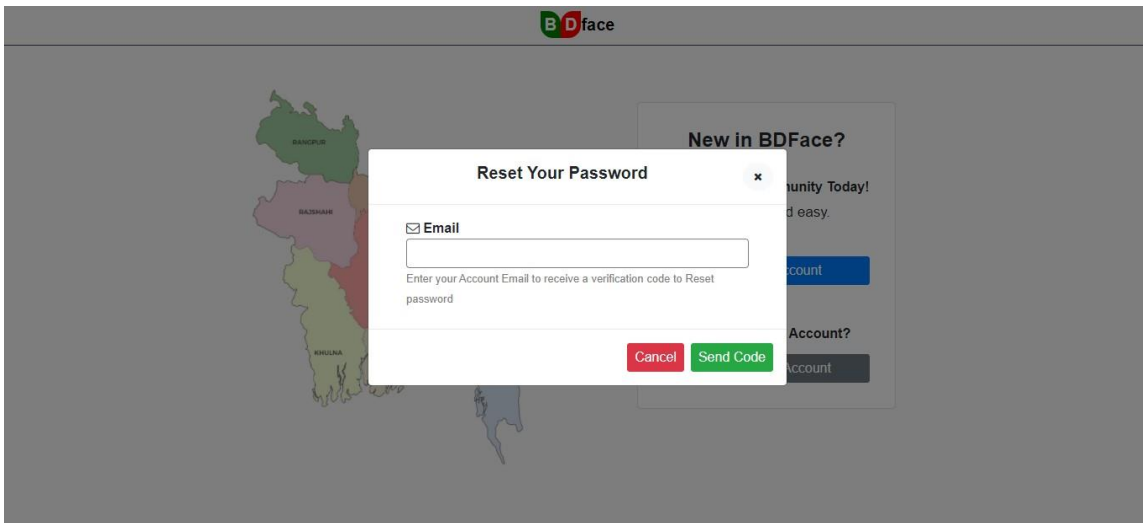


Figure 5.2.4 Password Reset View for All User

## 5.2.5 BDFace Account Verification Page:

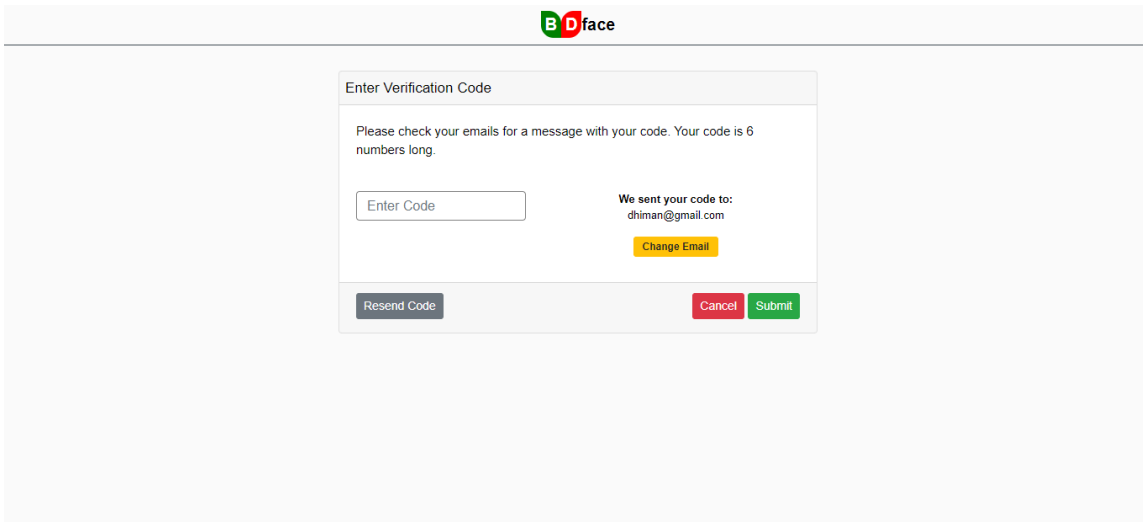


Figure 5.2.5 Account Verification View newly Registered user

## 5.2.6 BDFace Home Page:

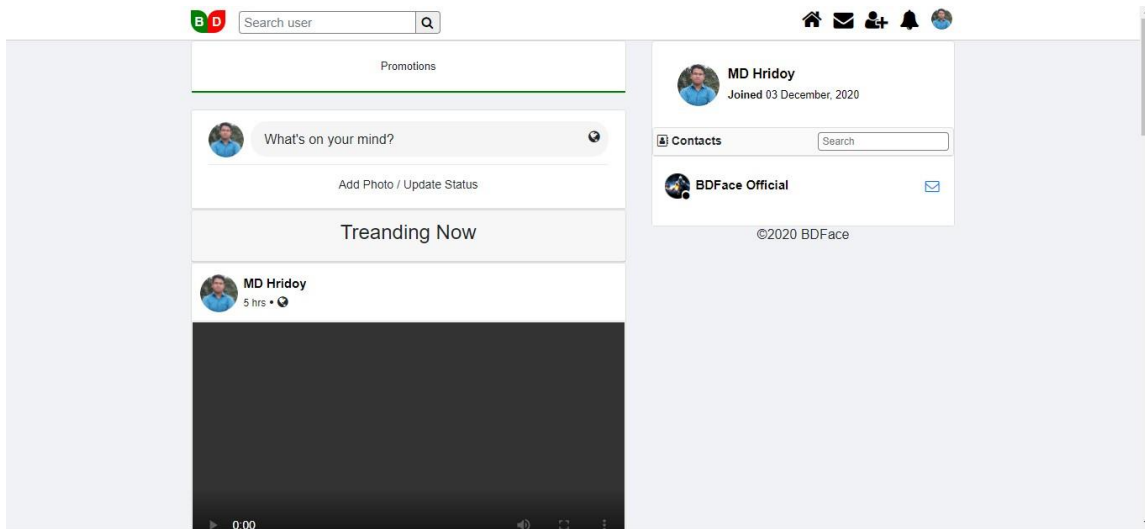


Figure 5.2.6 Home Page View for Registered User

## 5.2.7 BDFace Profile Page:

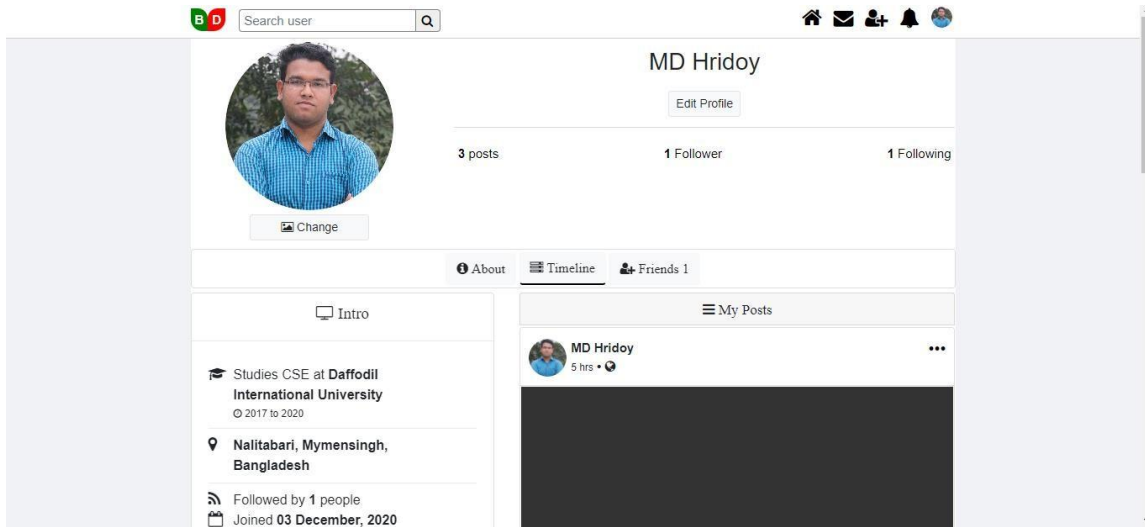


Figure 5.2.7 Profile Page View for Logged in User

## 5.2.8 BDFace User Profile Page:

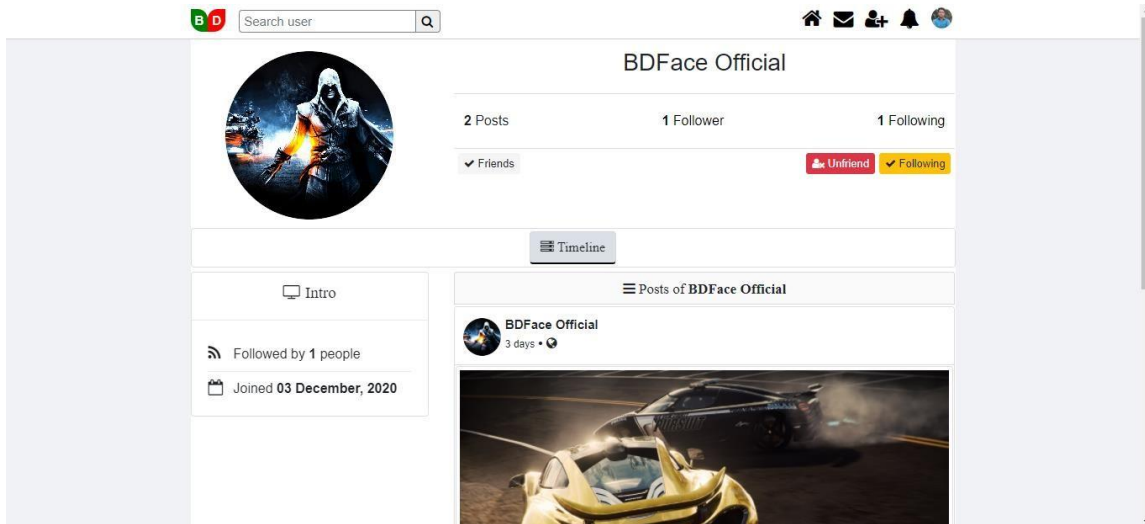


Figure 5.2.8 User Profile Page View for Logged in User

## 5.2.9 BDFace Messages Page:

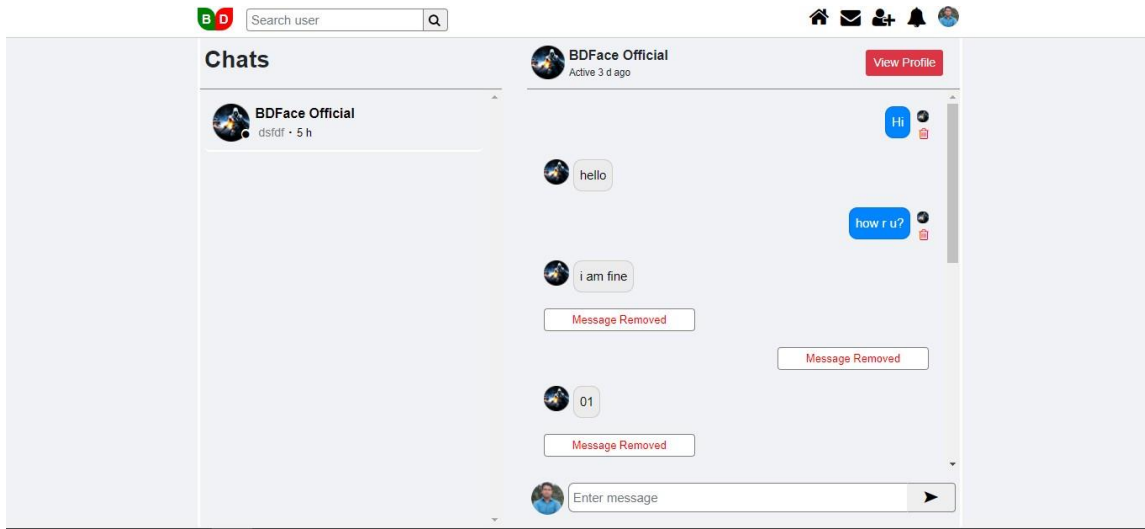


Figure 5.2.9 Messages Page View for Logged in User

### 5.2.10 BDFace All Users Page:

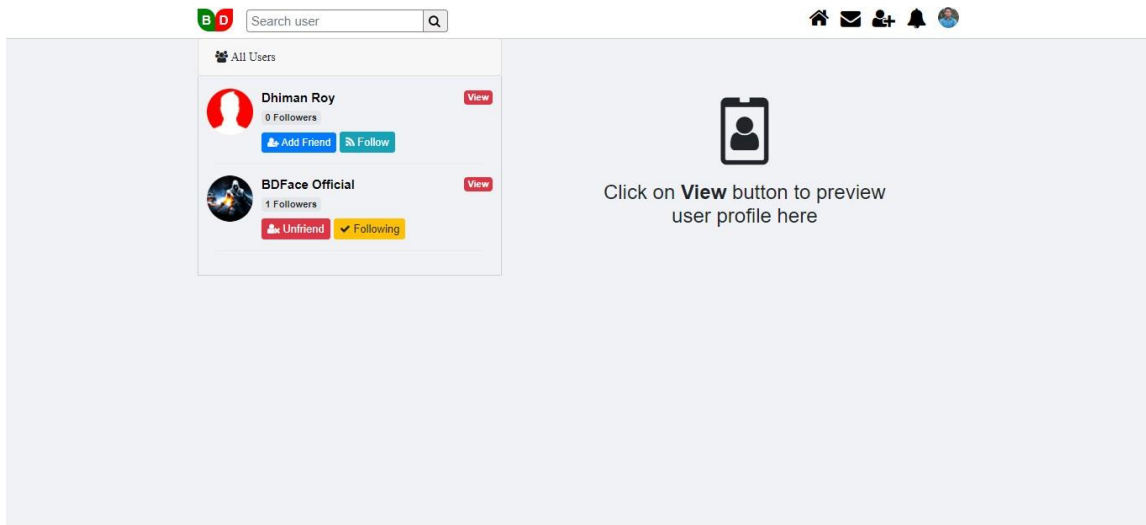


Figure 5.2.10 All Users Page View for Registered User

### 5.2.11 BDFace View Post Page:

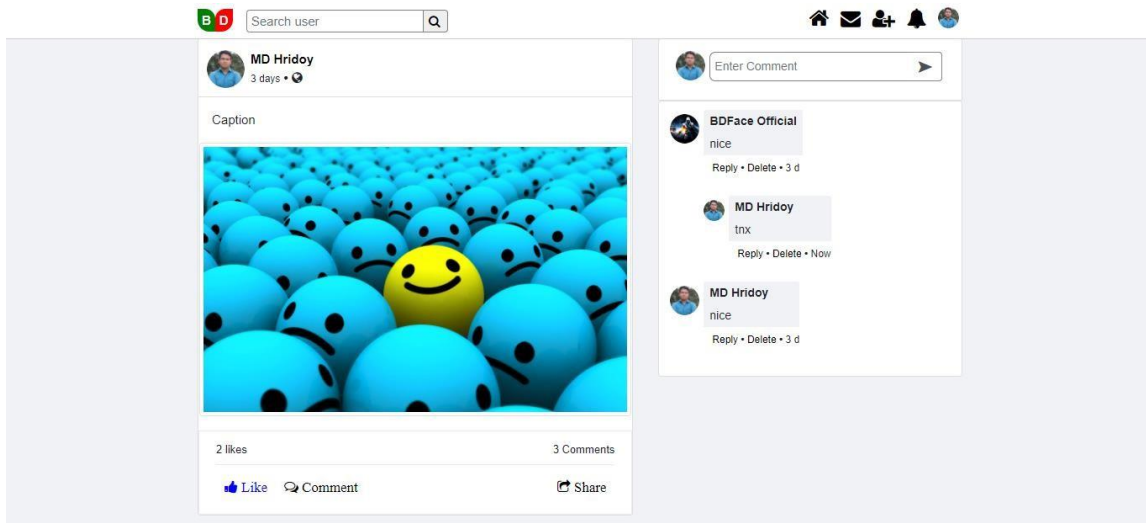


Figure 5.2.11 View Post Page View for Logged in User

## 5.2.12 BDFace Setting Page:

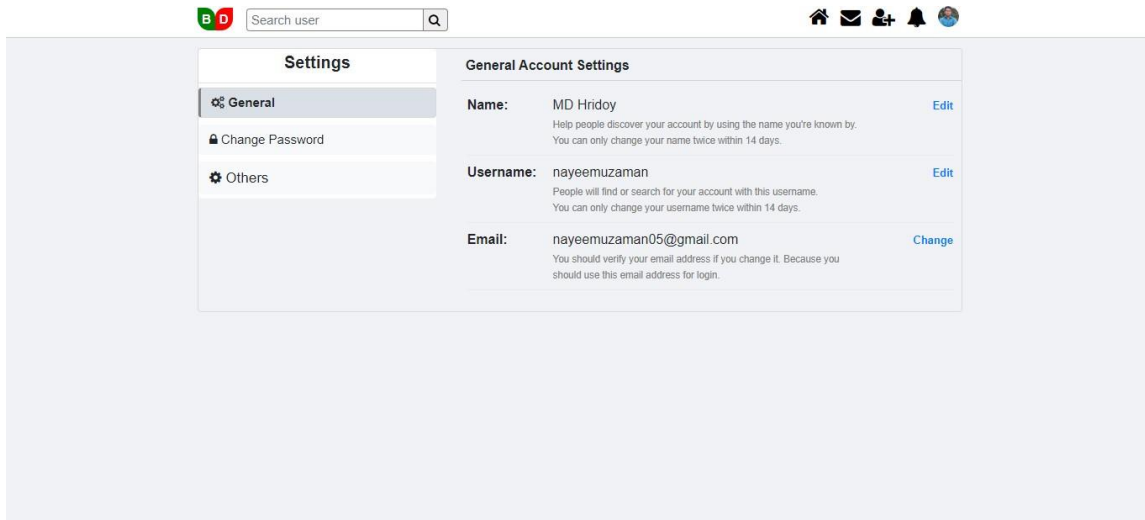


Figure 5.2.5 Setting Page View for Logged in User

## 5.3 Implementation of Interaction:

The important part of the Web Development is the implementation of the design in the code and form the design. This is the application's development phase. Codes are written in this phase and the necessary requirements for building the software are assembled. There is a gigantic requirement for individual frameworks, setting delicate assistance. The paper talks with exceptional spotlight on the UI about improving such an emotionally supportive network.

## 5.4 Testing Implementation

### 5.4.1 System Testing:

System testing is performed on the system to test that each system unit or module works as desired. System testing provides insights into system flaws and features that are not visible at the beginning to normal users. The primary focus of system testing is to test the total system whether or not it is performing as expected.



### **5.4.2 Functional Testing:**

In this project, this type of tests is also carried out. Here we are testing our program's functionality. Each function is identified, listed and tested to check if the desired output is produced.

### **5.4.3 User Acceptance Testing:**

User acceptance tests are known as beta tests, which are used to locate errors in the design of a website. Without any problems, the user used the application. The usefulness testing takes place at the center and end of the design process. When problems are detected, gradual changes are made to the website design.

### **5.4.4 Test Results and Report:**

The system's performance was close to the expected outcome. The improvement was made in modules throughout this structure. Each module has been executed and tested independently. The whole framework was coordinated by joining each module to work as a whole. The whole framework was tried and confirmed ok at the end of the combination.

## **CHAPTER 6**

### **DISCUSSION AND CONCLUSION**

#### **5.1 Discussion and Conclusion:**

BDFace is a dynamic website. In Bangladesh, huge number of people use social networking site. But sometimes peoples faced many kinds of problem like data security or many types of information technology problems which cannot be solved easily or it takes too much times. But in our website the rate to face these kinds of problems will be reduced. And our site will provide much security for users and peoples. By using this site user can communicate with their known peoples and can share posts through online. They can also share media and etc. Finally, we want our user to be satisfied by using our developed project. At this stage, this project is still under development and will be improved with many new features and functionalities.

#### **5.2 Scope for Further Developments:**

In future we have many plans for our project. Firstly, in future we want to develop this project in android version to reaches out more user. By doing all evaluation if Users want more features, we will be adding new features to make our project very attractive. A wonderful mobile application will be developed to make this project more engaging to the users. In future we are planning to design new UI/UX to make our website very eye catching and smooth. In future we want to promote this project globally.

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THANK YOU  
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