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| **Academic Year** | **Module** | **Assessment Number** | **Assessment Type** |
| S20 | System Analysis and Design Methods (ADipIT05) | A1 | Group Report |

[User Management System]

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**Abstract:**

This project is all about learning the java web application using JDBC and Servlet. In this project MySQL database is used as the data storing tool. This project is completed after gathering and analyzing requirements and User Story. And Different System designing methods are been implemented. For the development and testing of this project NetBeans IDE, MySQL and Chrome Browser were used. In short, User Management System is a web application user can create account and manage their account. There are mainly three types of users, they are Admin, Client, and Guest. Admin are the managers of the web application and have full access the system and can make changes in the system as they can create, delete, edit, block, and unblock client account. But as the clients, they are can create their user and can manage their account. However, the guests can view the description of all the features in the application. And newly signup guest is always a client. This web application is truly essential to store user information in systematic, updated, and accurate manner.

**Table of Contents:**

Contents

[1. Chapter 1: Introduction: 1](#_Toc42714531)

[1.1 General Introduction 1](#_Toc42714532)

[1.2 Problem Domain: 2](#_Toc42714533)

[1.3 Academic Question: 2](#_Toc42714534)

[1.4 Aims of the project: 2](#_Toc42714535)

[1.5 Objective of the project: 2](#_Toc42714536)

[1.6 Project Scope: 3](#_Toc42714537)

[1.7 Structure of the report: 4](#_Toc42714538)

[2. Chapter 2: Full details of Artefact 5](#_Toc42714539)

[2.1 Tools Used: 5](#_Toc42714540)

[2.1.1 Hardware Requirements: 5](#_Toc42714541)

[2.1.2 Software Requirements: 5](#_Toc42714542)

[2.1.3 Generalized list of requirements: 6](#_Toc42714543)

[2.1.4 Technical Skills: 6](#_Toc42714544)

[2.2 Techniques Used: 6](#_Toc42714545)

[3. Chapter 3: Implementation: 7](#_Toc42714546)

[3.1 Table Structure (ERD) 7](#_Toc42714547)

[3.2 Class Diagram: 8](#_Toc42714548)

[3.3 Use case diagram: 9](#_Toc42714549)

[3.5. User Stories and Requirement gathering: 10](#_Toc42714550)

[3.6 Data Dictionary: 22](#_Toc42714551)

[3.7 Context diagram 26](#_Toc42714552)

[3.7 Wireframes: 27](#_Toc42714553)

[Register: 27](#_Toc42714554)

[Admin Home page: 28](#_Toc42714555)

[Admin Dashboard: 29](#_Toc42714556)

[Login page: 30](#_Toc42714557)

[User Home page: 31](#_Toc42714558)

[3.8 Mockup: Dashboard Mock up: 33](#_Toc42714559)

[Admin Home Mock up: 34](#_Toc42714560)

[User Home Mock up: 35](#_Toc42714561)

[Login Mock up: 36](#_Toc42714562)

[Register Mock up: 37](#_Toc42714563)

[Admin setting Mock up: 38](#_Toc42714564)

[History Mock up: 40](#_Toc42714565)

[Recover account Mock up: 41](#_Toc42714566)

[Change Password Mock up: 42](#_Toc42714567)

[Guest home page Mock up: 43](#_Toc42714568)

[4. Chapter 4: Development 44](#_Toc42714569)

[4.1 Comparison between two methodologies: 44](#_Toc42714570)

[4.2 Similarity between Waterfall and Prototyping model: 47](#_Toc42714571)

[5.3 Selected Methodology: 48](#_Toc42714572)

[4.3 Plan/Schedule: 50](#_Toc42714573)

[4.4 Gantt Chart: 51](#_Toc42714574)

[5. Chapter 5: User Manual 52](#_Toc42714575)

[5.1 Logging in as admin 52](#_Toc42714576)

[5.2 Logging in as Client: 58](#_Toc42714577)

[5.3 Viewing homepage as a guest: 67](#_Toc42714578)

[6. Chapter 6: Testing and Evaluation 68](#_Toc42714579)

[6.1 Testing of the application: 68](#_Toc42714580)

[6.1.1 White box Testing: 68](#_Toc42714581)

[6.1.2 Black box Testing: 70](#_Toc42714582)

[7. Chapter 7: Conclusion and Future Scope 79](#_Toc42714583)

[7.1 Conclusion: 79](#_Toc42714584)

[7.2 Future Scope: 79](#_Toc42714585)

[Contribution sheet: 80](#_Toc42714586)

Table of Figures:

[Figure 1 Table Structure (ERD) 7](#_Toc42714295)

[Figure 2 Class Diagram 8](#_Toc42714296)

[Figure 3 Use case Diagram 9](#_Toc42714297)

[Figure 4 Sequence Diagram 10](#_Toc42714298)

[Figure 5 Context Diagram - DFD 26](#_Toc42714299)

[Figure 6 Register -Wireframe 27](#_Toc42714300)

[Figure 7 Admin Home Page -Wireframe 28](#_Toc42714301)

[Figure 8 Admin Dashboard -Wireframe 29](#_Toc42714302)

[Figure 9 Login page- Wireframe 30](#_Toc42714303)

[Figure 10 User home page -Wireframe 31](#_Toc42714304)

[Figure 11 Dashboard mock up 33](#_Toc42714305)

[Figure 12 Admin home mock up 34](#_Toc42714306)

[Figure 13 User home mock up 35](#_Toc42714307)

[Figure 14 Login mock up 36](#_Toc42714308)

[Figure 15 Register mock up 37](#_Toc42714309)

[Figure 16 Admin setting 38](#_Toc42714310)

[Figure 17 History mock up 40](#_Toc42714311)

[Figure 18 Recover account mock up 41](#_Toc42714312)

[Figure 19 change password mock up 42](#_Toc42714313)

[Figure 20 Home page mock up 43](#_Toc42714314)

[Figure 21 Waterfall model 44](#_Toc42714315)

[Figure 22 Iterative Development methodology 46](#_Toc42714316)

[Figure 23 Similarity between waterfall and prototyping model 47](#_Toc42714317)

[Figure 24 Stages of Agile Methodology 48](#_Toc42714318)

[Figure 25 Gantt Chart 51](#_Toc42714319)

[Figure 26 Dashboard for Admin 53](#_Toc42714320)

[Figure 27 user table for admin 54](#_Toc42714321)

[Figure 28 Add new user by Admin 54](#_Toc42714322)

[Figure 29 Update user details by Admin 55](#_Toc42714323)

[Figure 30 User list for Admin 56](#_Toc42714324)

[Figure 31 Profile for Admin 56](#_Toc42714325)

[Figure 32 Profile Details for Admin 57](#_Toc42714326)

[Figure 33 Edit Profile For admin 57](#_Toc42714327)

[Figure 34 Logout for admin 58](#_Toc42714328)

[Figure 35 Index Page 59](#_Toc42714329)

[Figure 36 Sign Up 60](#_Toc42714330)

[Figure 37 Sending Mail to User 60](#_Toc42714331)

[Figure 38 Verification of user 61](#_Toc42714332)

[Figure 39 Login Page 61](#_Toc42714333)

[Figure 40 User's Dashboard 62](#_Toc42714334)

[Figure 41 Profile Details 62](#_Toc42714335)

[Figure 42 Update User Details 63](#_Toc42714336)

[Figure 43 History 63](#_Toc42714337)

[Figure 44 Log out 64](#_Toc42714338)

[Figure 45 Login Page 65](#_Toc42714339)

[Figure 46 Forgot Password 65](#_Toc42714340)

[Figure 47 Change your password 66](#_Toc42714341)

[Figure 48 Password Changed 66](#_Toc42714342)

[Figure 49 Index Page 67](#_Toc42714343)

[Figure 50Testing For Login 68](#_Toc42714344)

[Figure 51Testing For Register 68](#_Toc42714345)

[Figure 52Testing For Forgot Password 69](#_Toc42714346)

[Figure 53Testing For User 69](#_Toc42714347)

[Figure 54Testing For History 70](#_Toc42714348)

# 1. Chapter 1: Introduction:

Mysterious**** provides the simplest and easiest to use User interface tools to help administrators manage user identities including password resets, creating and provisioning, blocking and deleting users. The users also are managed by the administrator to permit certain roles or update user information. The User Management System provides functionality to manage users and private profiles. User management systems implement user management and authentication, personal profiles management, and classification. Relies on Java as an object-oriented language and MySQL as a database server. Add or remove users, modify profile and authorization attributes, and identify root-cause user login issues in minutes with a simple, intuitive and powerful web interface.

## General Introduction

User Management System is a web application which have the functionality to create user account and manage account. Mysterious is a straightforward user management system that gives functionality to manage personal profiles and users. Personal profiles contain information like email, first name, last name, password encrypted in hash and logged in information User information contains a user number, username, password, and session for authentication. User information is employed for high-level authentication and privileges definitions. One or more personal profiles are assigned to a user. Users can create and login to the system and they are able to reset password and even can logout from the system. Users are also having the ability to edit their profile. In this System Admin can manage the system. Admin can directly login to the system without registration. The system administrators can fully access the system and can make changes in the system. Admin can add, edit users, and remove the users and check the list of user profiles in the system.

## Problem Domain:

Before there was no User management system, so storing information was inaccurate and difficult. So, this user management system is very essential for managing the users. Here user can register into system and manage their account. In this system there is a functionality of tracking user actions such as register, login, logout, update, etc. which helps to store user information in systematic, updated, and accurate manner. In this web application administers have full access the system and can make changes in the system which makes much easier to maintain and manage user of the system.

## Academic Question:

While doing this coursework, we became familiar with the Java programming language. We learn how java works and get knowledge on how to make proper web applications, working with a group makes us a responsible member. We also learn to deal with problems and errors while doing projects. We were also able to learn new session handling, create read update and delete (CRUD) operations, an overview of various dashboards and history pages.

## Aims of the project:

·       To overview the dashboard and history in the project.

·       To learn CRUD operations.

·       To learn the java programming language for web application development.

·       To gain knowledge of Junit testing in java.

·       To gain knowledge for saving the data to the database.

## 1.5 Objective of the project:

* To manage users by admin and to make the management system systematic.
* To manage users and private profiles.
* To manage the user database.
* To record the history log of the user.
* To save all the data to MySQL database.
* To give user sign up functionality so that they can create their user.
* To give access to modification of personal data.

## 1.6 Project Scope:

The scope of the project is the features that is include in our project and some of the scope of our project are:

User part:

|  |  |
| --- | --- |
| User Signup | User can register in the system by simply going to registration page |
| Login | After creating the account user can login to the system by providing valid email and password |
| Logout | User can exit the session by clicking on the logout button |
| Forget password | If user forget their password then they have option to reset the password. |
| History | User can see their history by going to history section |
| Profile page | User can see their profile and manage their profile according to their wants. |

Admin part:

|  |  |
| --- | --- |
| Admin Login | Admin can login to the system without creating the account. Admin can directly login with username and password |
|  |  |
| Delete user | Admin have the feature to delete the user from the system. |
| Add user | Admin can manually add a new user |
| History page | Admin can see the user history page and individual log |
| User block list | Admin can block the user in the system and can view the user blocked in the system in block list |

Guest part:

|  |
| --- |
| 1. Guest can view the functionality of web application. |
| 1. Guest can register into system as client. |

## 1.7 Structure of the report:

This document follows following Conventions:

* Main Headings:

Font: Arial

Face: Bold

Text Size: 14

* Subheadings:

Font: Arial

Face: Bold

Text Size: 12

* Other Text Explanations

Font: Arial

Face: Normal/Bold

Text Size: 12

Line spacing: 1.5

# 2. Chapter 2: Full details of Artefact

## 2.1 Tools Used:

**·** Java Programming language

·       JDK version 11.2

·       NetBeans IDE

·       Tomcat server

·       Html CSS, bootstrap and JavaScript for frontend design

·       Chrome browser for preview.

·       MySQL as database

·       Junit testing

·       Manual testing

·       Star UML for different diagram like ERD, Use case, Class diagram.

### 2.1.1 Hardware Requirements:

**·** Processor: Intel i3, or advanced than i3.

·       Memory (RAM): Minimum 256 MB or more.

·       Hard Drive: Minimum 2 GB or more.

·       Graphic: Intel, AMD Radeon, NVidia

### 2.1.2 Software Requirements:

**·** Operating system as platform independent

·       Browser: Chrome, Firefox, Microsoft edge etc.

·       NetBeans IDE.

·       Tom cat server.

·       JDK version 8 minimum.

·       MySQL database.

### 2.1.3 Generalized list of requirements:

·       Processor: Intel i3 1Gz or more than that.

·       RAM: Minimum 256 MB or more.

·       Storage: Minimum 2 GB or more.

·       Graphic: Intel iris, AMD Radeon, NVidia or any other.

·       MySQL database.

·       Tom cat as server.

·       OS: Platform Independent.

·       Any internet browser like chrome, Brave Firefox etc.

### 2.1.4 Technical Skills:

The technical skills are:

·       Html, CSS, bootstrap and java script for UI design.

·       Browsing and running skill in browser to run project.

·       Manual testing skill.

·       Junit testing.

·       Knowledge of java programming language.

·       Familiar with NetBeans IDE.

·       Tomcat or glassfish Server connection.

·       MySQL database skill and connection.

## 2.2 Techniques Used:

The techniques used to build our project are:

·       User story writing.

·       Word for documentation.

·       Junit testing.

·       Black box testing.

·       Java programming language.

·       Web project creation and implementation.

·       Database connection in MySQL.

·       Familiar with NetBeans IDE.

·       Using server and connecting server.

·       Gantt chart.

·       Work break down structure.

·       Class diagram.

·       Use case diagram.

# 3. Chapter 3: Implementation:

## 3.1 Table Structure (ERD)

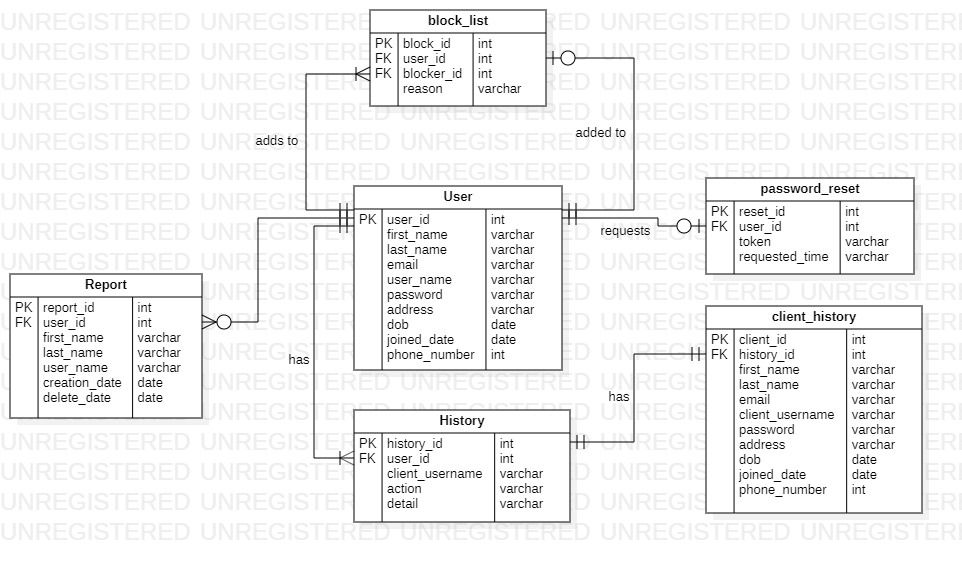


Figure 1 Table Structure (ERD)

## 3.2 Class Diagram:

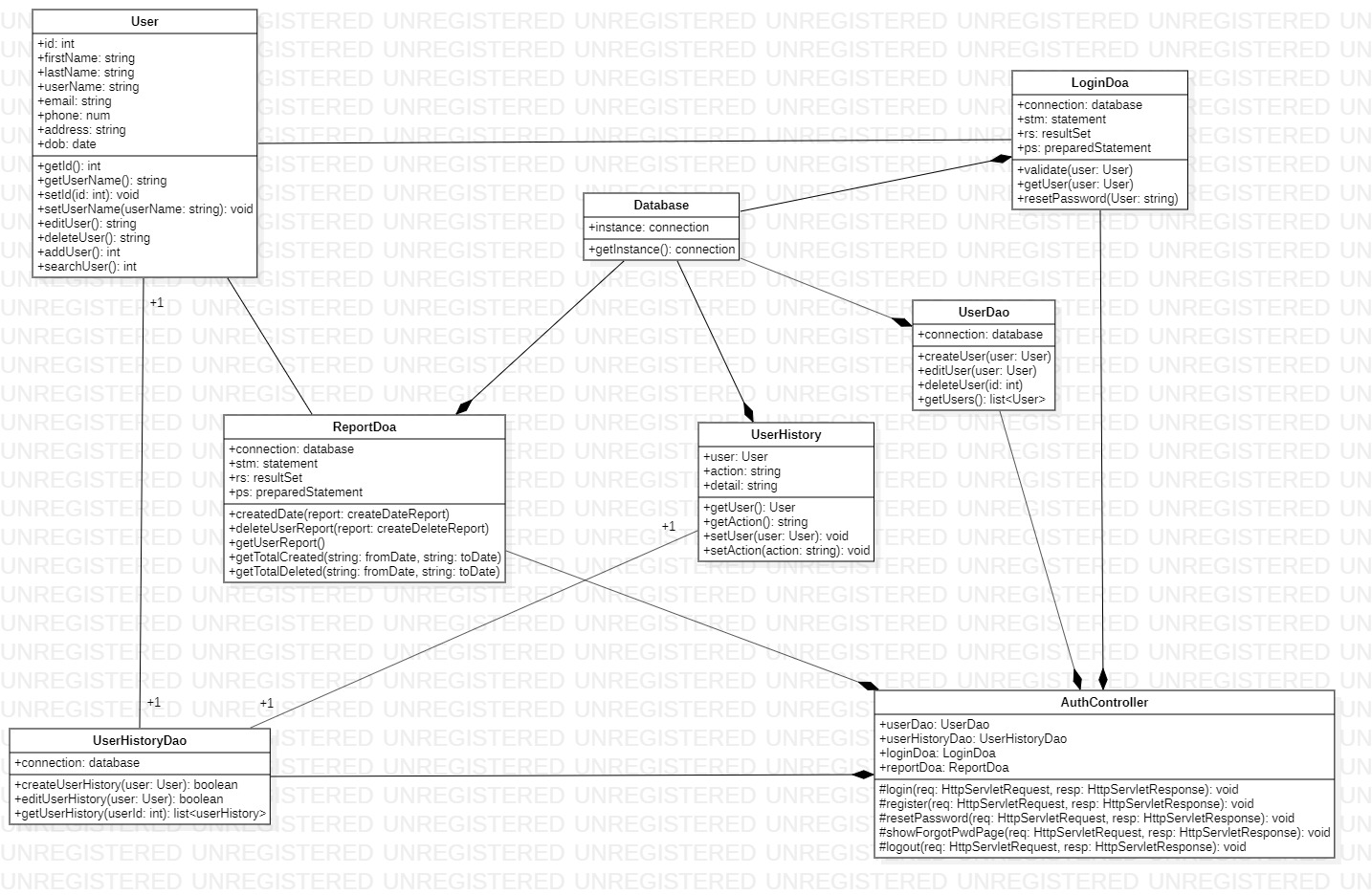


Figure 2 Class Diagram

## 3.3 Use case diagram:

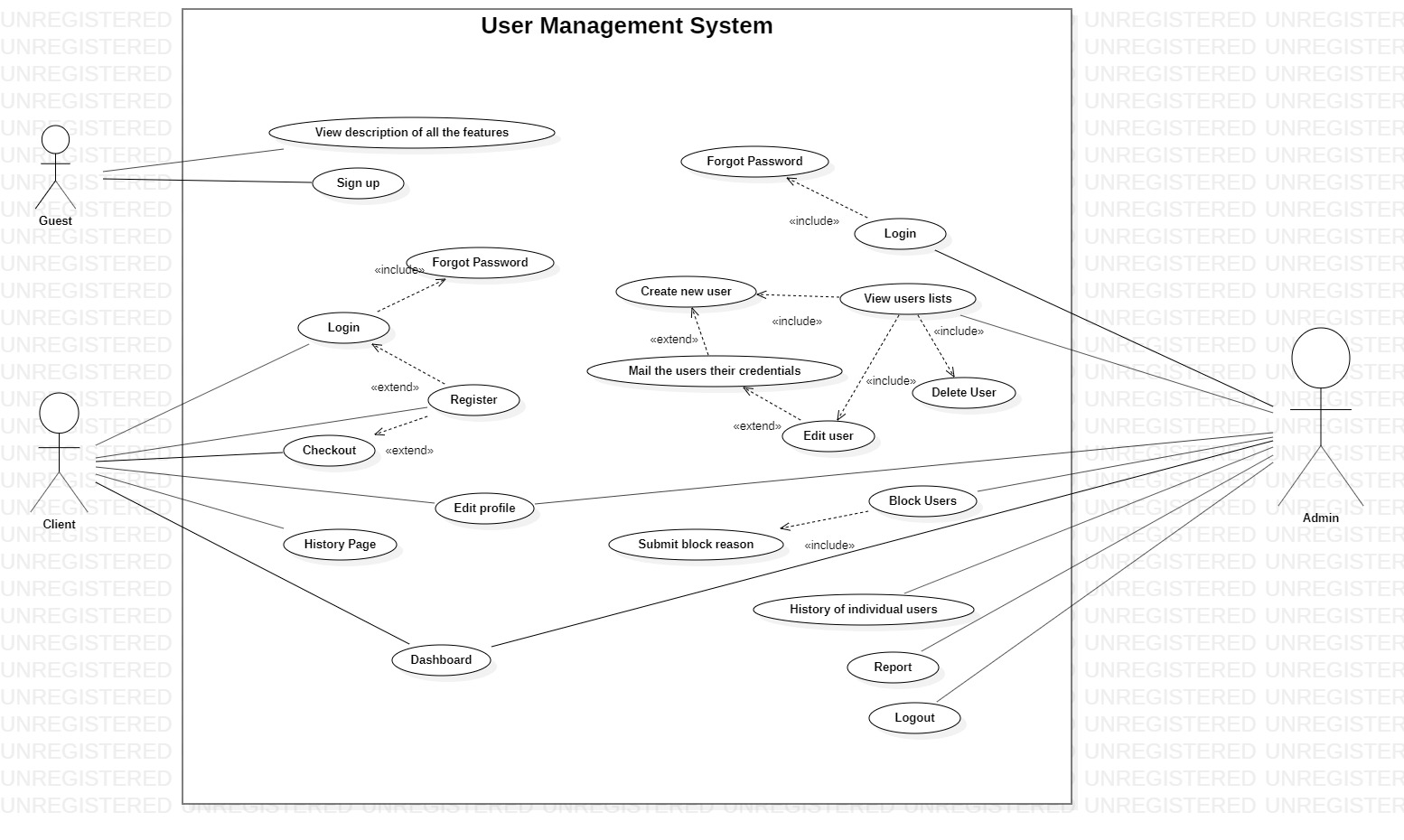


Figure 3 Use case Diagram

3.4 Sequence Diagram:

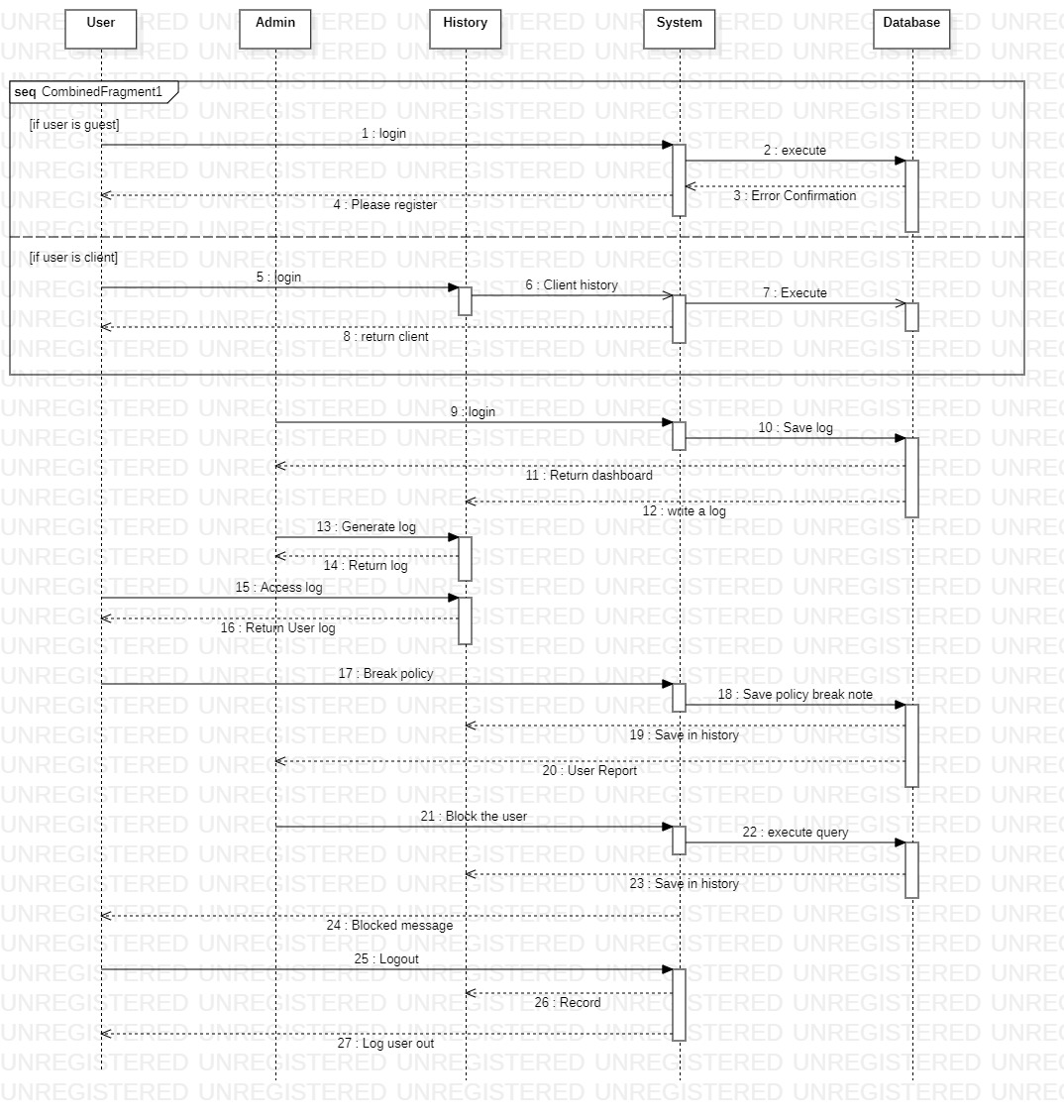


Figure 4 Sequence Diagram

## 3.5. User Stories and Requirement gathering:

ADMIN:

1. Story ID : US001

As an admin, I want to login/logout into the system directly so that I can manage other users.

Dependency: N/A

Story points: 3/5

Acceptance Criteria:

Assuming users already exist in the system.

Data Dictionary as provided.

Design as per mockup1.

Username and password should be given in the field and click on the login button.

Username must be an email field.

Password should be 8-20 characters.

Username and password are mandatory fields.

If login is failed the “invalid username or password” message should be displayed, login page is landing page. (Design as per mockup1)

Successful login should redirect to the dashboard page.

Login records should be stored in the history page.

Session should be destroyed after clicking the logout button and should be redirected to the home page.

1. Story ID : US002

As an admin, I want to view all users in the system so that I can manage other users.

Dependency: US001

Story points: 2/3

Acceptance Criteria:

All user should be visible including username, email, password and description

Design as per mockup 2.

All details should be in tabular format.

The system should have a search button for username.

The system should show details about specific user after search.

Records should be unique.

Records can be sorted by name and date.

3. Story ID: US003

As an admin, I want to create a new user in the system so that I can increase admin and users.

Dependency: US001, US002

Story points: 5/8

Acceptance Criteria:

Users can be added to the system.

Data Dictionary as provided.

Design as per mockup1.

Newly added user’s username should be unique.

All newly added user's passwords should be the same and after providing ID and password to corresponding users they must change password.

 User added records should be stored in the history page.

1. Story ID : US004

As an admin, I want to edit the email associated with a user in the system so that I can update the user's new email.

Dependency: US002

Story points: 5/8

Acceptance Criteria:

Admin can edit username and email.

Data Dictionary as provided.

Design as per mock3.

The system should contain a save button.

After clicking the save button, the system should redirect to mock2.

Update message should be sent to the user.

Records should be updated in the history page.

5. Story ID: US005

As an admin, I want to change the role of a user in the system so that I can change user’s permissions.

Story point: 2

Dependency: N/A

Acceptance Criteria:

Admin can give and change permission for users in the system.

Design as per mock3.

Data dictionary as provided.

Admin can give access to read only or read and write to users of the system.

Contains save button.

Users should be informed about it via email.

Records should be updated in the history log.

6. Story ID: US006

As an admin, I want to change the password of a user in the system so that users can login into the system if they forgot their password.

Dependency: US002

Story point: 3/5

Acceptance Criteria:

Admin can change the password of the users.

.Design as per mock3.

Change should be updated in the database after clicking the save button.

Data Dictionary as provided.

Update message should be sent to the user.

Records should be updated in the history page.

7. Story ID: US007

As an admin, I want to reset the password of a user in the system so that users can change the password after they forgot password.

Story point: 3/5

Dependency: US002

Acceptance Criteria:

Admin can reset the password of the users.

Default password should be used after resetting.

Change should be updated in the database after clicking the save button.

Users should be informed via email.

Records should be updated in the history page.

8. Story ID: US008

As an admin, I want to disable a user in the system so that I can block users temporarily.

Story point: 3/5

Dependency: US002

Acceptance Criteria:

Admin should be able to disable a user in the system.

After clicking on the disable button page should redirect into the user Info page.

Change should be updated in the database.

Users should be informed via email.

Records should be updated in the history page.

9. Story ID: US009

As an admin, I want to restore a disabled user in the system so that I can unblock users.

Story point: 1/2

Dependency: US002, US008

Acceptance Criteria:

Admin should be able to enable a user in the system.

After clicking on the enable button page should redirect into the userInfo page.

Change should be updated in the database.

Users should be informed via email.

User’s permission to use a regular system should be granted.

Records should be updated in the history page.

10. Story ID: US0010

As an admin, I want to remove a user from the system so that I can remove inactive users.

Story point: 3/5

Dependency: US002

Acceptance Criteria:

Admin should be able to remove a user in the system.

After clicking on the remove button page should redirect into the user info page.

Change should be updated in the database.

Users should be informed via email.

Records should be updated in the history page.

11. Story ID: US011

As an admin, I want to have a history log so that I can learn about the user's activities.

Story point: 3/5

Dependency: US001, US003, US004, US004... US0010

Acceptance Criteria:

Admin should have a history log page in the system.

History log should have details of all action performed in the system.

Admin should view the history log of all users of the system.

Design as per mockup4.

System should contain a search button to search specific users.

History log page should be sorted in date format.

System should contain a remove option to remove specific user history.

12. Story ID: US012

As an admin, I want to have a report page to see users created and blocked within a given date range so that I can learn about weekly, monthly and annually performance of the system.

Story point: 3/5

Dependency: US0011

Acceptance Criteria:

Admin should have a separate report page to see user details.

Details include users created and blocked within a given date and range.

Design as per mockup5.

System should contain a search button to search specific users.

System should contain a remove option to remove specific user details.

CLIENT:

  1. Story ID: USC001

As a client, I want a register page in the system so that I can be a user of the system.

Story point: 13

Dependency: N/A

Acceptance Criteria:

Clients should have a separate registration page.

Name, Email address, phone number are required to register into the system.

Register button should be below the terms and conditions hyperlink.

 Design as per mockup6

After clicking the register button, one time password (OTP) should be given for successful registration.

After successful registration, Client should redirect to dashboard page.

2. Story ID: USC002

As a client, I want to login/logout in the system so that I can use the system.

Story point: 3/5

Dependency: USC001

Acceptance Criteria:

Clients should login into the system after valid credentials.

Login requires email or phone and password.

Passwords must be a minimum 8 characters long and have a sensitive letter.

Logout button should be in the top right corner and should be clearly visible.

After the client clicks on the logout button, the account should logout.

3. Story ID: USC003

As a client, I want to edit the email associated in the system so that I can update my email

Story point: 8

Dependency: USC002

Acceptance Criteria:

Clients should have the authority to change their email address.

Only company email addresses are acceptable to change the email address.

Email address should not exceed more than 25 characters long.

Email should be verified to change.

Records should be updated in the history table.

4. Story ID: USC004

As a client, I want to recover my account if i forget the password in the system so that I can get access to the system.

Story point: 13

Dependency: USC002, USC005

Acceptance Criteria:

Email or phone is required to create a new password.

Forget password button should be above the login button.

Only the registered phone or email associated with the account are valid.

Clients should provide OTP to change the password.

 Passwords must be a minimum 8 characters long and have a sensitive letter.

Records should be updated in the history table.

5. Story ID: USC005

As a client, I want to change the password  in the system so that I can update my security number.

Story point: 3/5

Dependency: USC002

Acceptance Criteria:

Clients should be logged in to change the password.

Change password option should be in the account section.

Current password is required to change to a new one.

Passwords must be a minimum 8 characters long and have a sensitive letter.

After changing, Successful message should be displayed.

Records should be updated in the history table.

6. Story ID: USC006

As a client, I want a profile page in the system so that I can update about my info.

Story point: 8

Dependency: USC002, USC005

Acceptance Criteria:

Clients should have a separate profile page.

Profile page should contain Name, photo, email, phone, address, including KYC form.

Profile page should be in only one page.

Login is required to access the profile page.

Clients can change their information from the profile page.

Records should be updated in the history table.

7. Story ID: USC007

As a client, I want to see the history in the system so that I can learn about my activities.

Story point: 3/5

Dependency: USC002, USC003, USC004, USC005, USC006

Story points

Acceptance Criteria:

Clients should have a history log page in the system.

History log should have details of all actions performed in the system.

A client should be able to view the history log of his/her activities in the system.

Design as per mockup4..

History log page should be sorted in date format.

8. Story ID: USC008

As a client, I want a search page so that I can search certain data.

Story point: 8

Dependency: USC002

Story points:

Acceptance Criteria:

Records should be unique.

Search filters should be provided.

Records should be able to sort by name and date.

Landing page should be on the same page.

History log should be updated.

9. Story ID: USC009

As a client, I want to view the dashboard of the system so that I can use functionality of the system.

Story point: 13

Dependency: USC002

Story points:

Acceptance Criteria:

Design as per mockup7

Should contain information about users added, daily active users, user’s rating of the system.

Various functions of the system should be listed.

Information should be in graphical formats.

GUEST:

1. Story ID: USG001

As a guest, I should be able to view the description of all the features in the application so that I can learn more about the system.

Story point: 3/5

Dependency: N/A

Story Points:

Acceptance Criteria:

Should include the terms and conditions of the system.

Should provide more info about the system like about us.

Guests should be able to view functionalities of the system but cannot use it.

2. Story ID: USG002

As a guest, I want an option to register as a client so that I can use the system.

Story point: 8

Dependency: N/A

Acceptance Criteria:

Guests should be able to sign up if they want to.

Design as per mockup6.

Landing page should be a dashboard.

## Data Dictionary:

**User:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.N.** | **FIELD** | **DATATYPE(LENGTH)** | **CONSTRAINTS** | **DETAILS** |
| 1 | user\_id | Int | Primary Key auto increment | This is stored in database for unique value of user. |
| 2. | user\_name | Varchar(20) | unique | This field is required to login user which should be unique. |
| 3. | password | Varchar(20) |  | Needed when user wants to login account |
| 4. | User\_type | Varchar(25) |  | This is needed for categorizing user i.e. admin, client, guest |
| 5. | User\_status | Boolean |  | Determines whether user is active or not. (True for active False for not active) |

**Profile:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.N.** | **FIELD** | **DATATYPE(LENGTH)** | **CONSTRAINTS** | **DETAILS** |
| 1 | user\_id | Int | Primary Key auto increment | This is stored in database for unique value of user. |
| 2. | user\_name | Varchar(20) | Primary Key | This field is required to login user which should be unique.needed to link user in database |
| 3. | Full name | Varchar(30) |  | Needed while signup. |
| 4. | Address | Varchar(30) |  | Needed while signup. |
| 5. | Contact | Vachar(10) |  | Needed while signup to verift the user.OTP is sent in given number. |
| 6. | Gender | Varchar(6) |  | Needed while signup to verify user gender .i.e male, female and other. |
| 7. | DOB | Date |  |  |
| 8. | User\_type | Varchar(25) |  | Determines whether user is admin, client or guest. |

## 3.7 Context diagram

**DFD:**

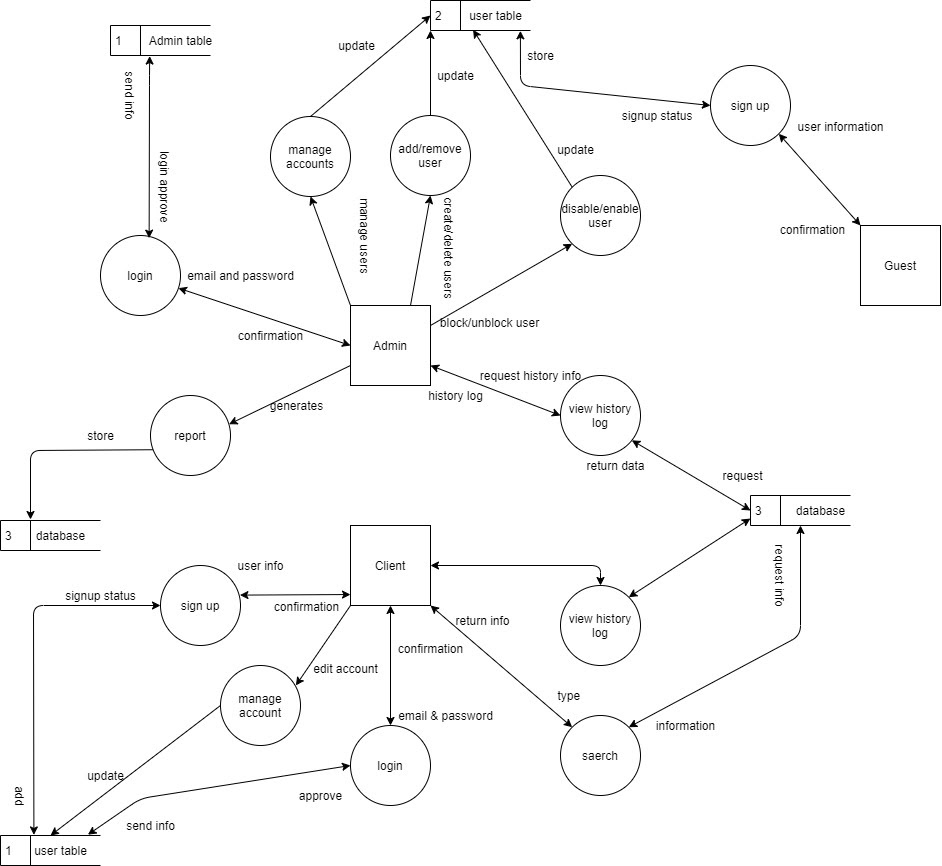
****

Figure 5 Context Diagram - DFD

## Wireframes:

### Register:

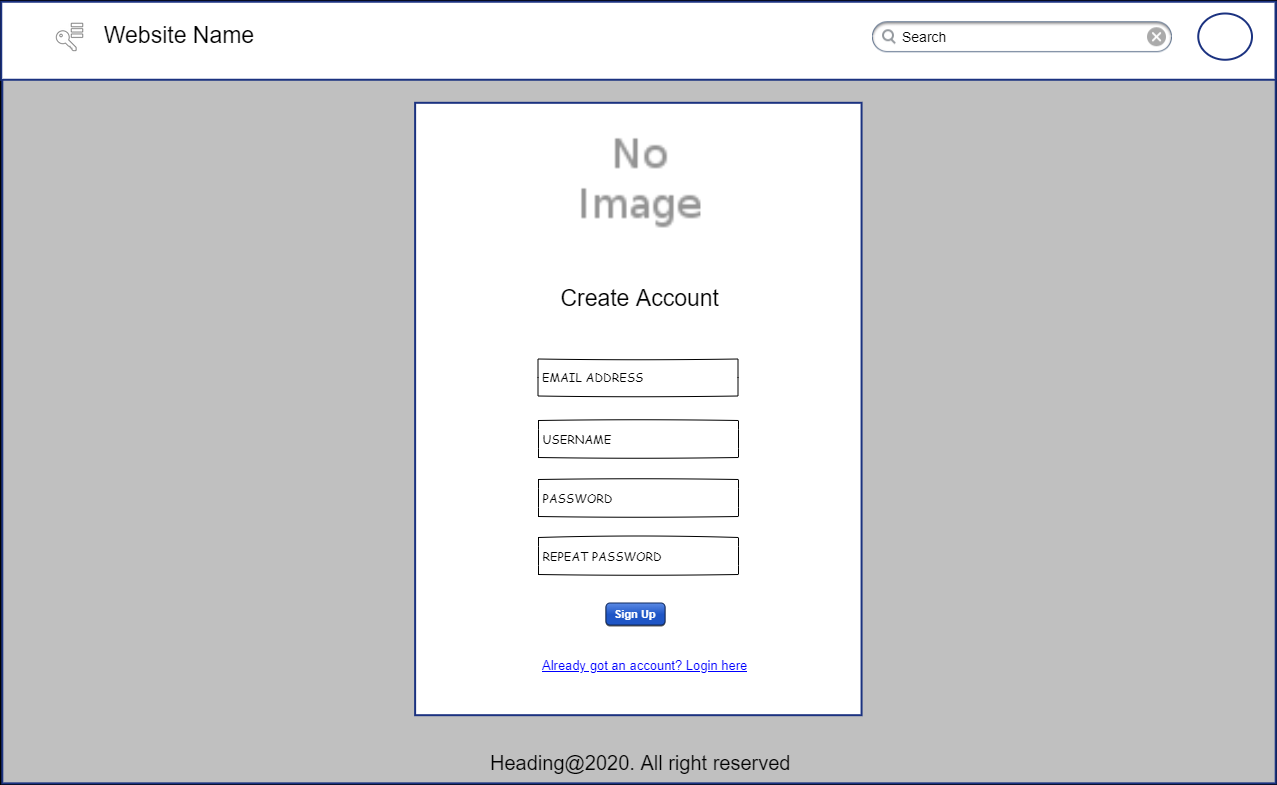
****

Figure 6 Register -Wireframe

### Admin Home page:

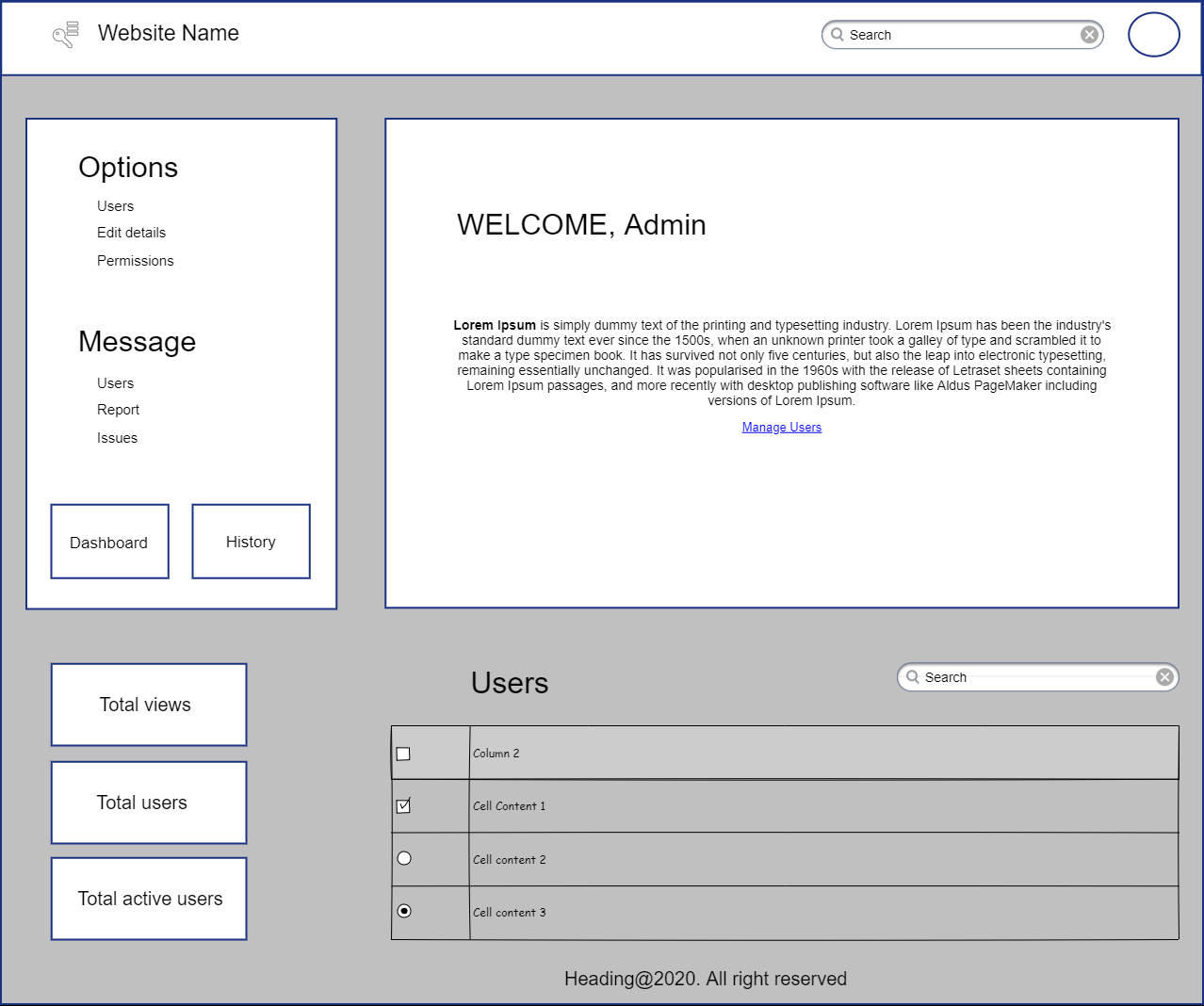
****

Figure 7 Admin Home Page -Wireframe

### Admin Dashboard:

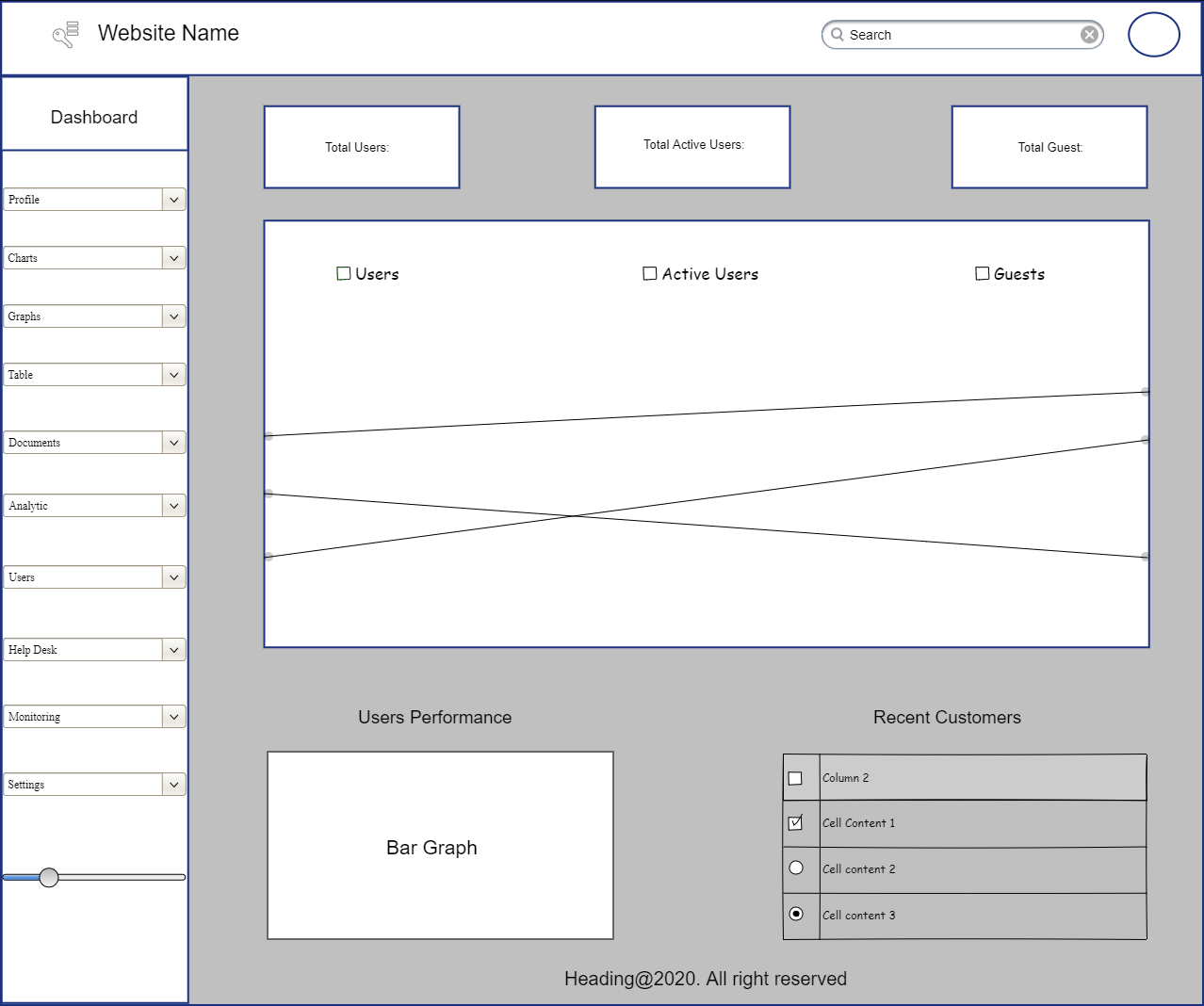
****

Figure 8 Admin Dashboard -Wireframe

### Login page:

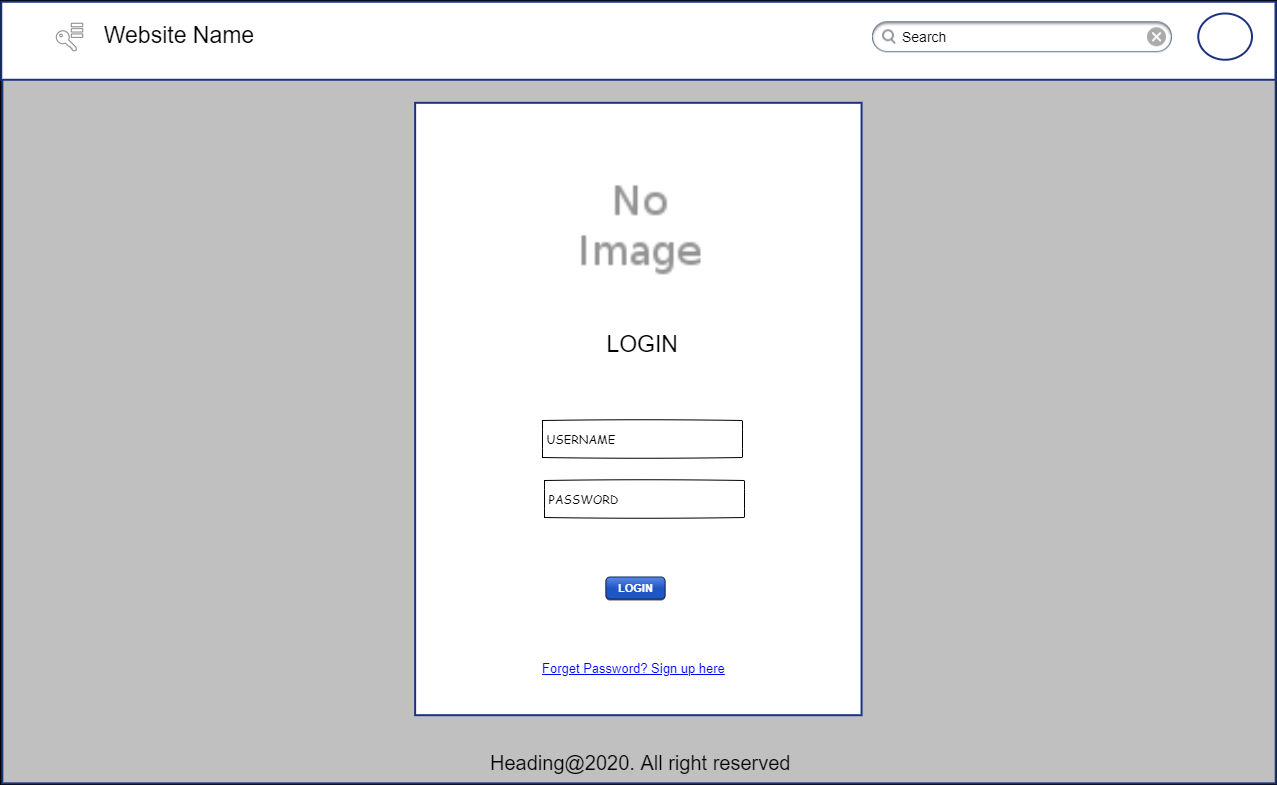
****

Figure 9 Login page- Wireframe

### User Home page:

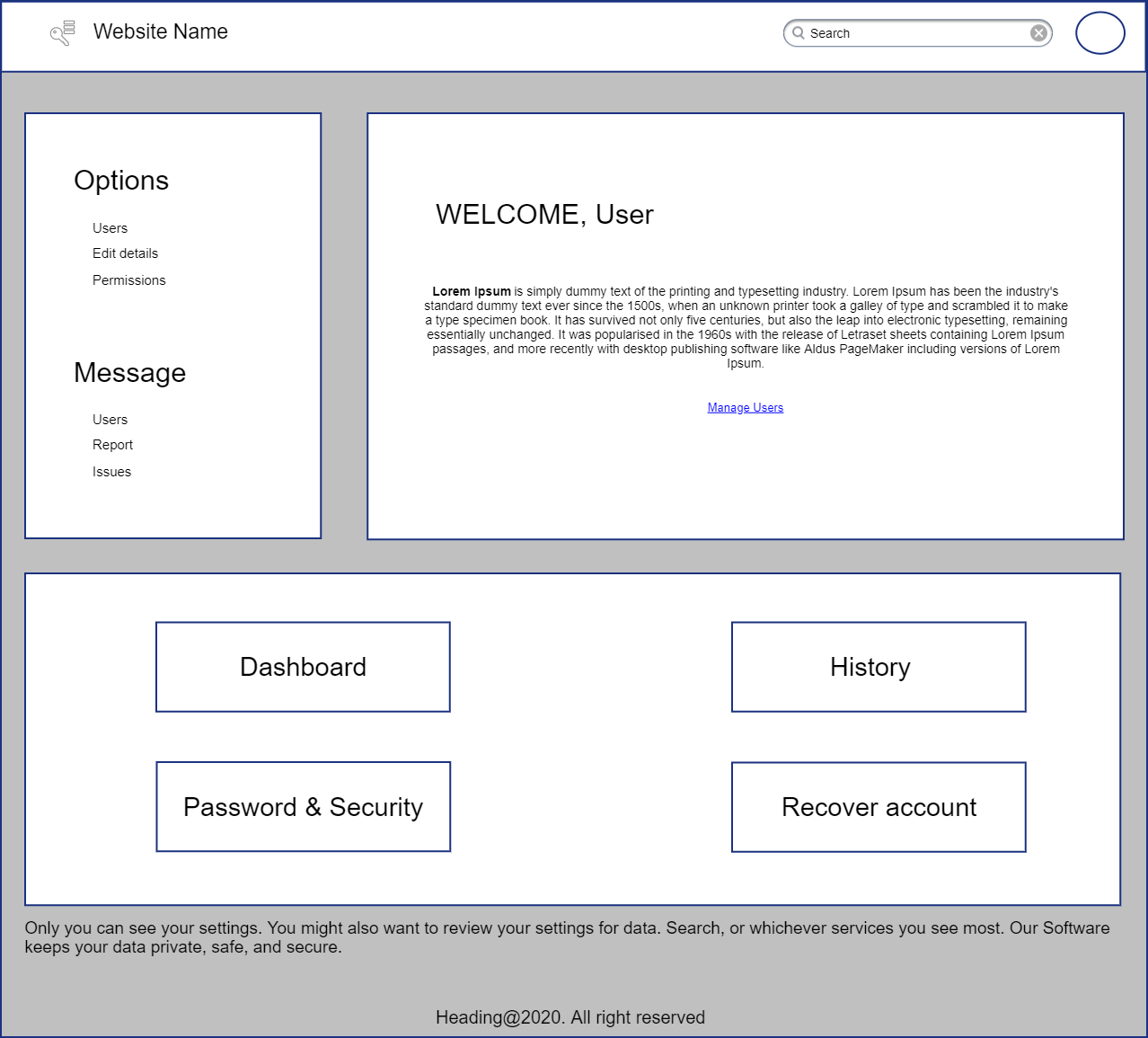
****

Figure 10 User home page -Wireframe

## Mockup: Dashboard Mock up:

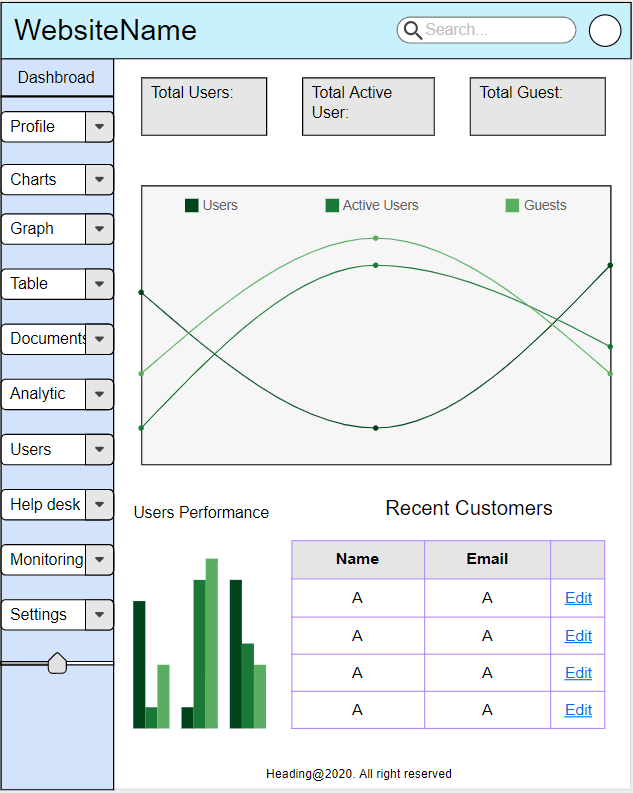
****

Figure 11 Dashboard mock up

### Admin Home Mock up:

****

Figure 12 Admin home mock up

### User Home Mock up:

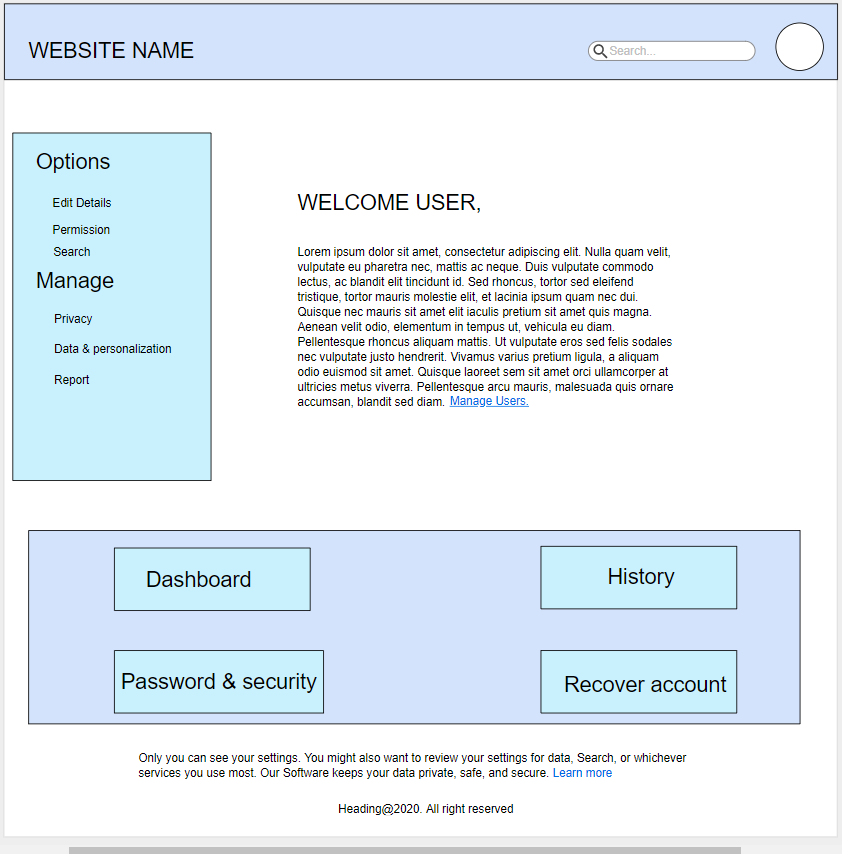
****

Figure 13 User home mock up

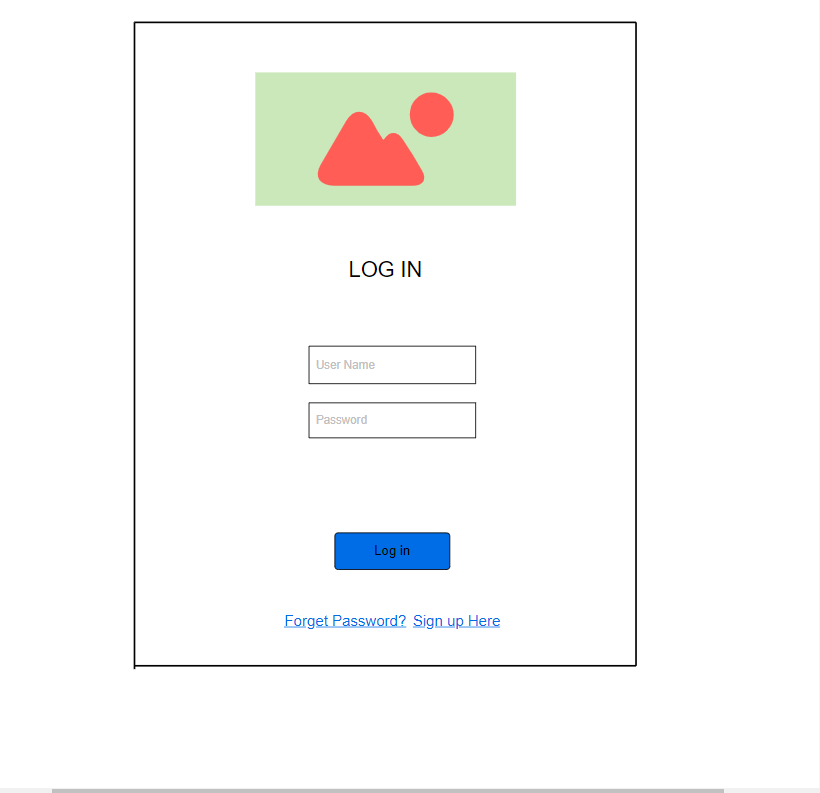
Login Mock up: 

Figure 14 Login mock up

### Register Mock up:

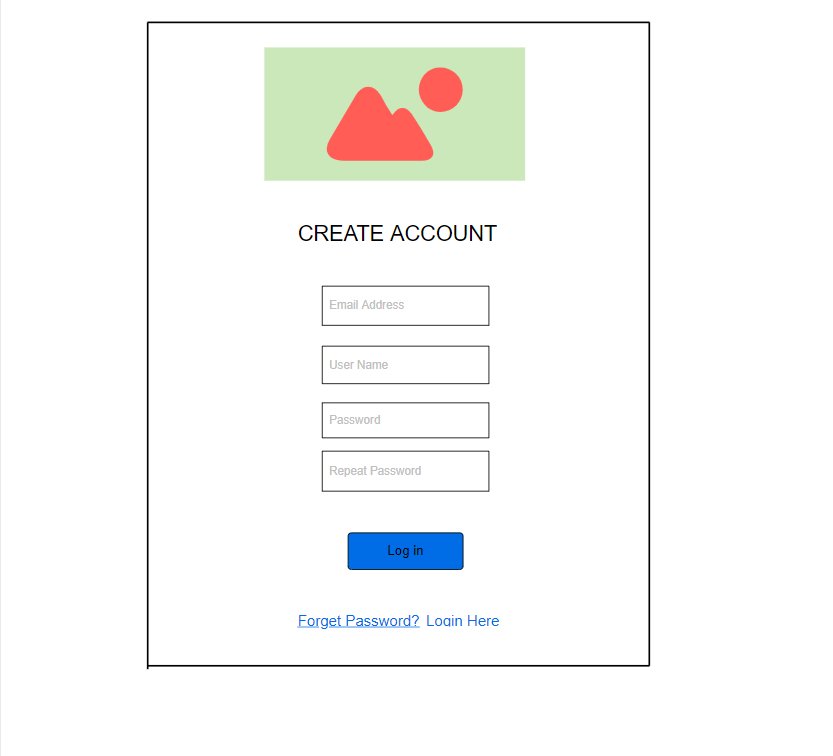
****

Figure 15 Register mock up

### Admin setting Mock up:

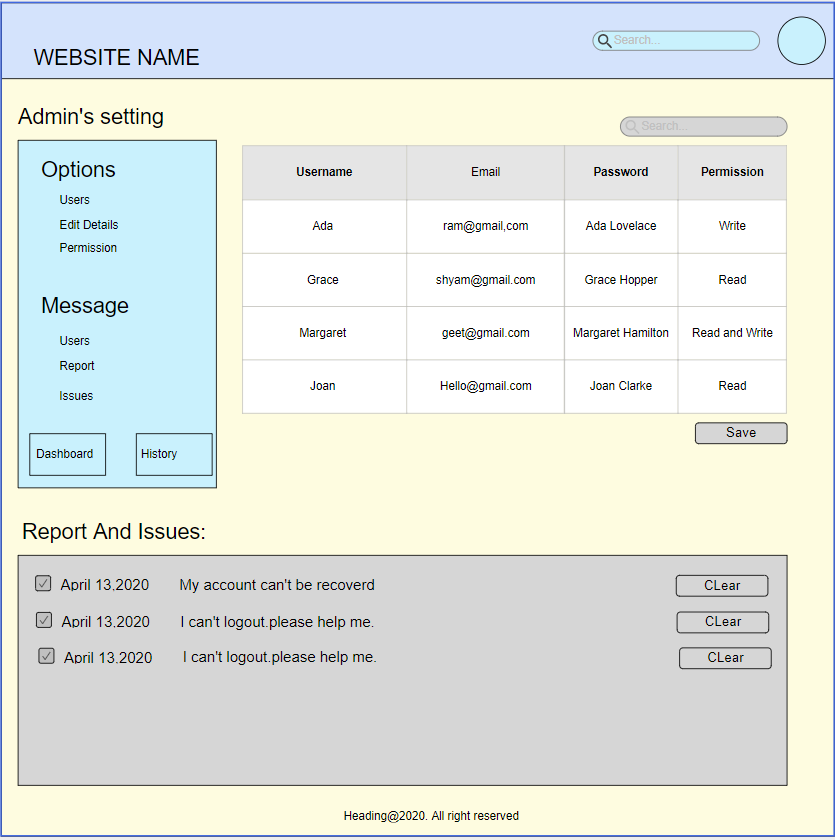


Figure 16 Admin setting

### History Mock up:

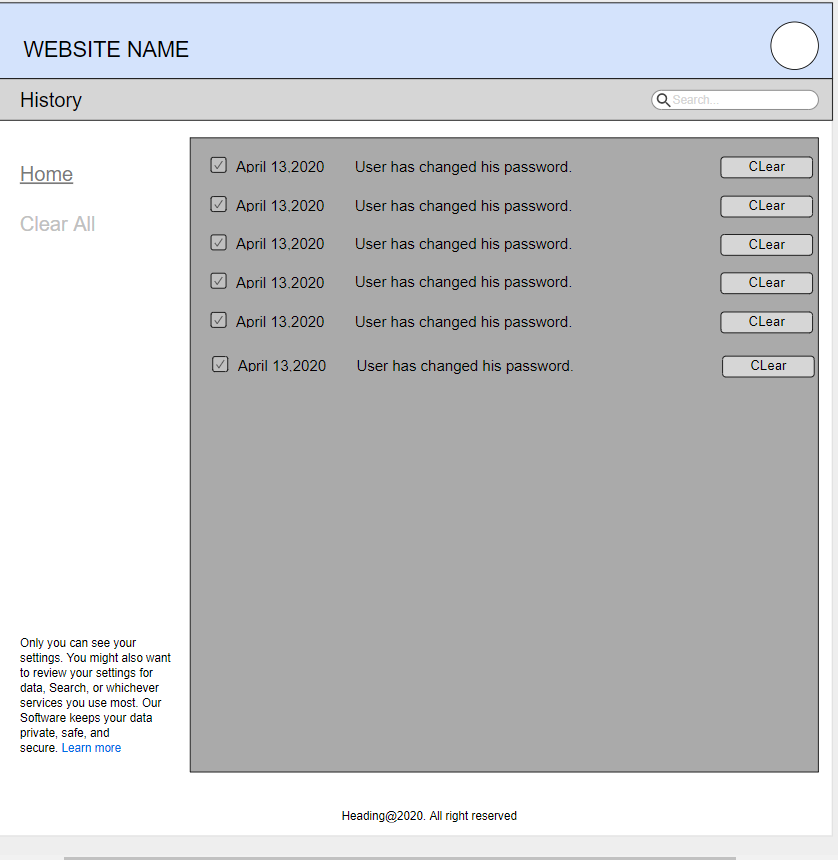


Figure 17 History mock up

## Recover account Mock up:

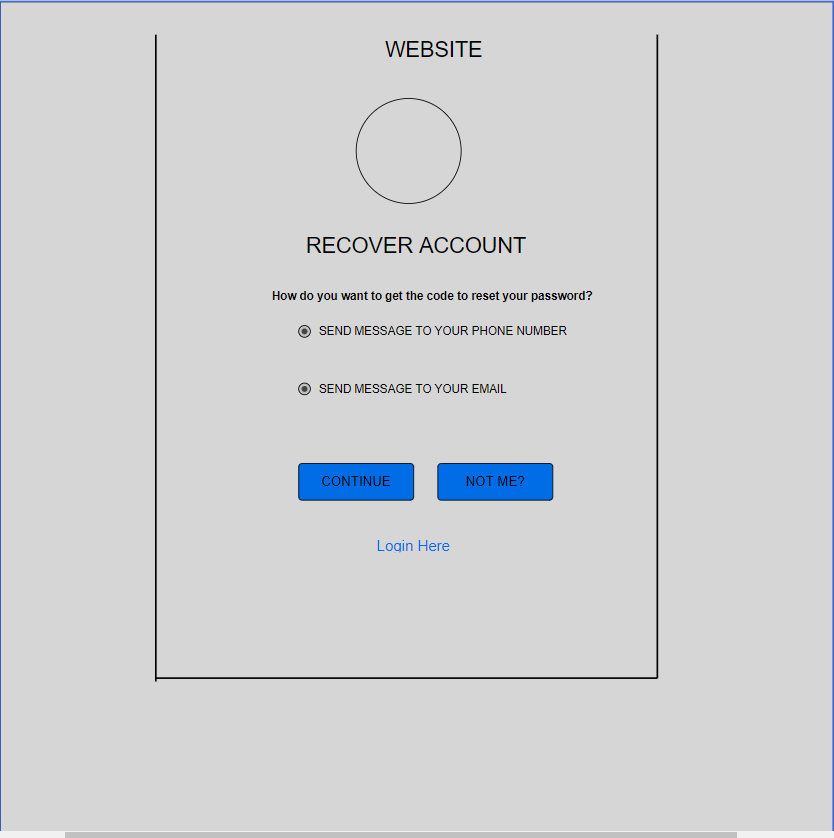


Figure 18 Recover account mock up

## Change Password Mock up:

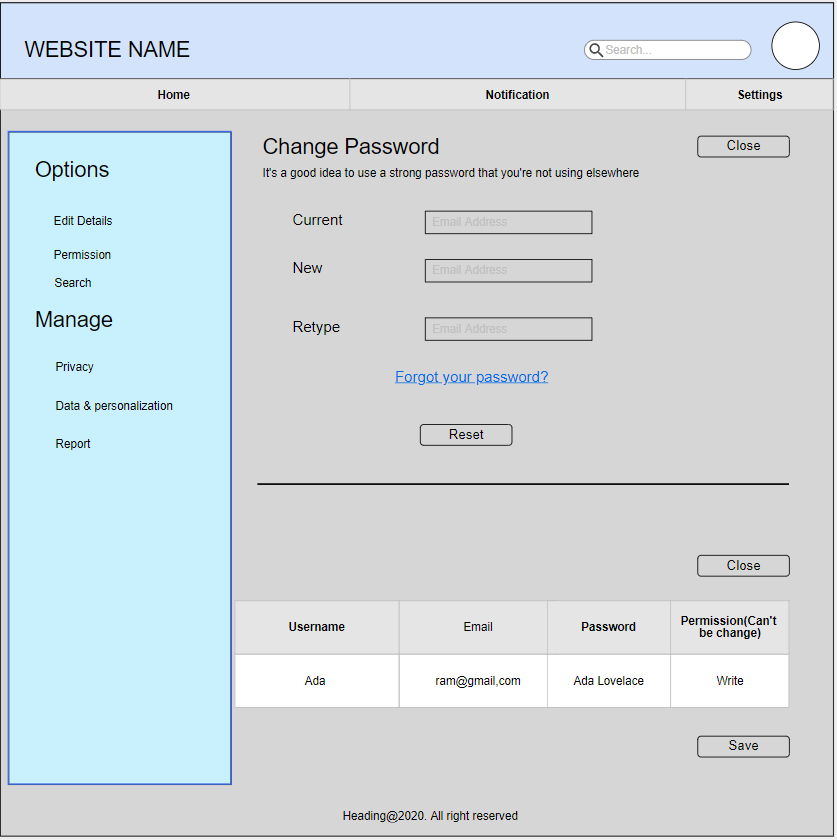


Figure 19 change password mock up

## Guest home page Mock up:



Figure 20 Home page mock up

# 4. Chapter 4: Development

The way of managing a software development project can be called as software development methodology. It refers to the framework that is used to plan, structure and control the process of developing a software system. It typically addresses issues like when software will be released, who works on what, selecting features and what testing is done. On the basis of project nature, Software development Methodology can be selected.

## 4.1 Comparison between two methodologies:

Here we are going to compare between the Waterfall model and the Iterative model.

**Waterfall Model**

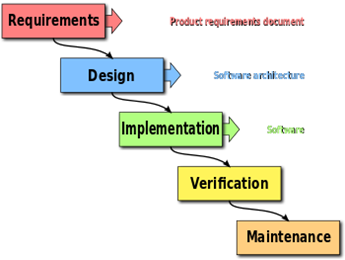


Figure 21 Waterfall model

In a waterfall model, each phase must be completed fully before the next phase can begin. This type of software development model is basically used for the project which is small and there are no uncertain requirements. At the end of each phase, a review takes place to determine if the project is on the right path and whether or not to continue or discard the project.

**When to use the waterfall model**

·   This model is used only when the requirements are very well known, clear and fixed.

·   Product definition is stable.

·   Technology is understood.

·   There are no ambiguous requirements

·   Ample resources with required expertise are available freely

·   The project is short.

**Advantages of Waterfall model**

·   It is easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.

·   In this model phases are processed and completed one at a time. Phases do not overlap.

·       Waterfall model works well for smaller projects where requirements are clearly defined and very well understood**.**

**Disadvantages of Waterfall model**

- Difficult to make changes later.

- High amount of risk and uncertainty.

- Delays testing until after completion.

- Requirements must be known to prior development, which delays in project completion.

**Iterative Development methodology**

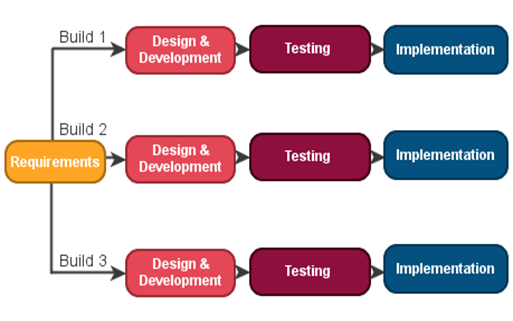


Figure 22 Iterative Development methodology

**When to use iterative model:**

·   Requirements of the complete system are clearly defined and understood.

·   When the project is big.

·   Major requirements must be defined; however, some details can evolve with time.

**Advantages of Iterative model**

·   less time is spent on documenting and more time is given for designing.

·   we can get the reliable user feedback.

·   We can build and improve the product step by step. Hence, we can track the defects at early stages.

·   can create a high-level design of the application before we actually begin to build the product and define the design solution for the entire product.

**Disadvantages of Iterative model**

- Not suitable for small projects

- Highly skilled team required for skill analysis.

- Require more resources

- More management attention is required

- Not suitable for changing requirements though the cost of change is lesser.

## 4.2 Similarity between Waterfall and Prototyping model:

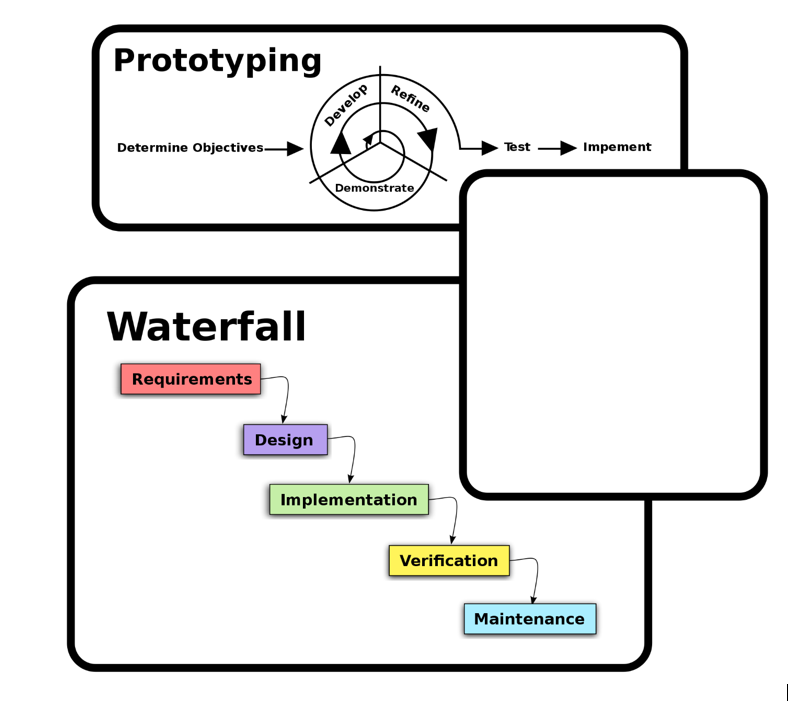
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Figure 23 Similarity between waterfall and prototyping model

**Similarities between Waterfall and Prototype model**

Each life cycle is divided into phases where specific objectives are to be met.

Both models have an objective to reduce the development and maintenance cost.

Both models are suitable for short-term programs or short-life span systems.

## 5.3 Selected Methodology:

**Agile Development Methodology**

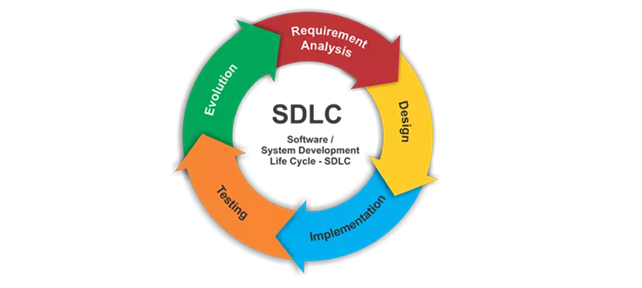


Figure 24 Stages of Agile Methodology

It refers to a software development approach based on iterative development. Means the methods break into smaller iteration or parts that do not directly involve in long term planning. The duration, Iteration and scope are clearly defined in plan.

**Reasons behind the selection of this methodology**

- Errors can be fixed while the application is in the development stage.

- Working software can be delivered frequently

- Small projects like this can be implemented quickly

- Testing is done in every phase.

- Minimal rules and Documentation

- Functionality can be rapidly developed and demonstrated.

- Little or no planning required

- Easy to manage

 - Gives flexibility to developers

**Phases of Agile Model**

**- Requirements gathering:** Defining the requirements and explaining the business, plan the time and effort needed to build the whole project.

**- Design the requirements:**  Work with stakeholders to define requirements. User flow diagram or UML diagram, UI/UX can be used to show the work of new features and show how it will apply to an existing system.

**- Construction/ iteration**: Designers and developers start working on their project, which aims to deploy a working software. The software or application will undergo various stages of improvement.

**- Testing/ Quality assurance:** In this stage, the Testers and Quality Assurance team examines the software performance and looks for the bug.

**- Deployment:** Issues the software for the users work environment.

**- Feedback**: After releasing the software, Developers receive feedback about the product and work through the feedback.

## 4.3 Plan/Schedule:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Task Duration(days)** | **Start Date** | **End Date** |
| 1 | Requirement Gathering | 4 | 5-May | 8-May |
| 1.1 | User Stories | 4 | 5-May | 8-May |
| 2 | Design | 9 | 9-May | 17-May |
| 2.1 | Table Structure | 2 | 9-May | 10-May |
| 2.2 | Usecase Diagram | 1 | 11-May | 11-May |
| 2.3 | Class Diagram | 1 | 12-May | 12-May |
| 2.4 | ER Diagram | 1 | 13-May | 13-May |
| 2.5 | Wireframes | 2 | 14-May | 15-May |
| 2.6 | Mockups | 2 | 16-May | 17-May |
| 3 | Implementation | 12 | 18-May | 29-May |
| 3.1 | UI/UX | 2 | 18-May | 19-May |
| 3.2 | Login/Signup | 2 | 20-May | 21-May |
| 3.3 | Main Dashboard page | 2 | 22-May | 23-May |
| 3.4 | Edit Profile | 1 | 24-May | 24-May |
| 3.5 | User History | 1 | 25-May | 25-May |
| 3.6 | Manage users | 1 | 26-May | 26-May |
| 3.7 | Reset Password | 2 | 27-May | 28-May |
| 3.8 | Block/Unblock users | 1 | 29-May | 29-May |
| 4 | Testing | 4 | 30-May | 2-Jun |
| 4.1 | White Box Testing | 2 | 30-May | 31-May |
| 4.2 | Black Box Testing | 2 | 1-Jun | 2-Jun |
| 5 | Deployment | 2 | 3-Jun | 4-Jun |
| 6 | Documentation | 3 | 5-Jun | 7-Jun |

## 4.4 Gantt Chart:

![A screenshot of a cell phone

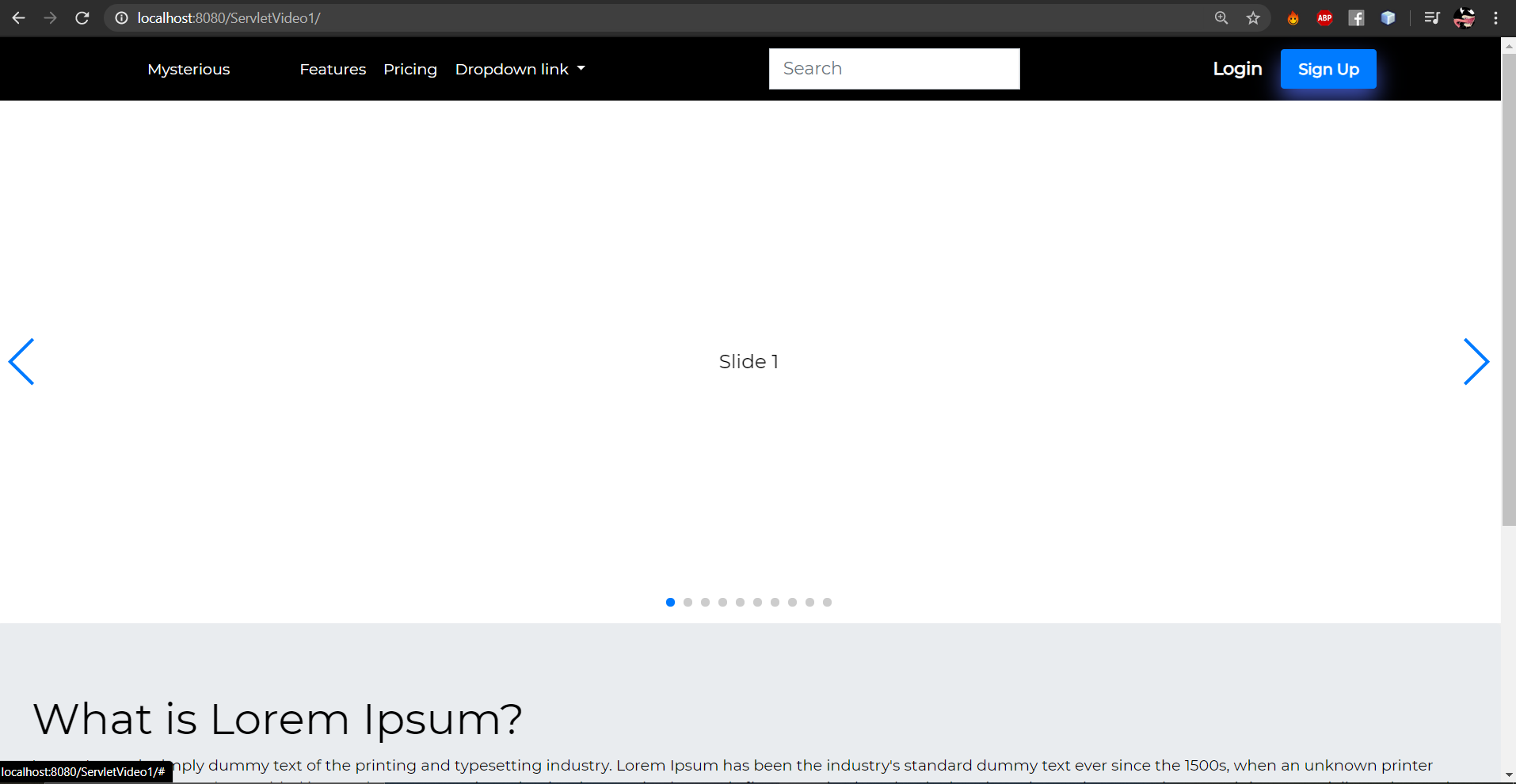
Description automatically 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Figure 25 Gantt Chart

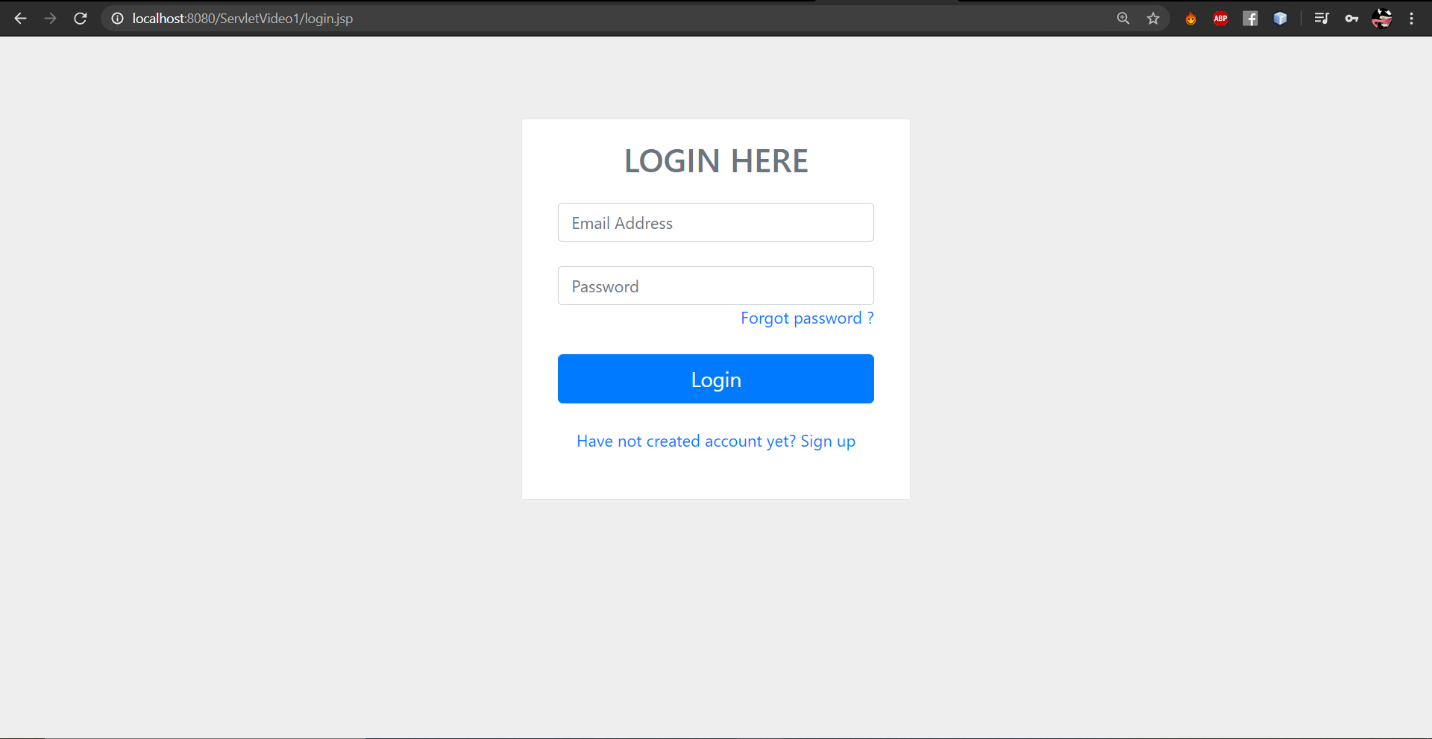
# 5. Chapter 5: User Manual

## 5.1 Logging in as admin

1. Enter the site URL (<http://localhost:8080/ums>) in your address bar and you will be shown the homepage. Click to **LOGIN** button.



2. To login into system, enter your email and password (You will be provided). And click **LOGIN** button.



3. After login, Admin dashboard will be shown like this.

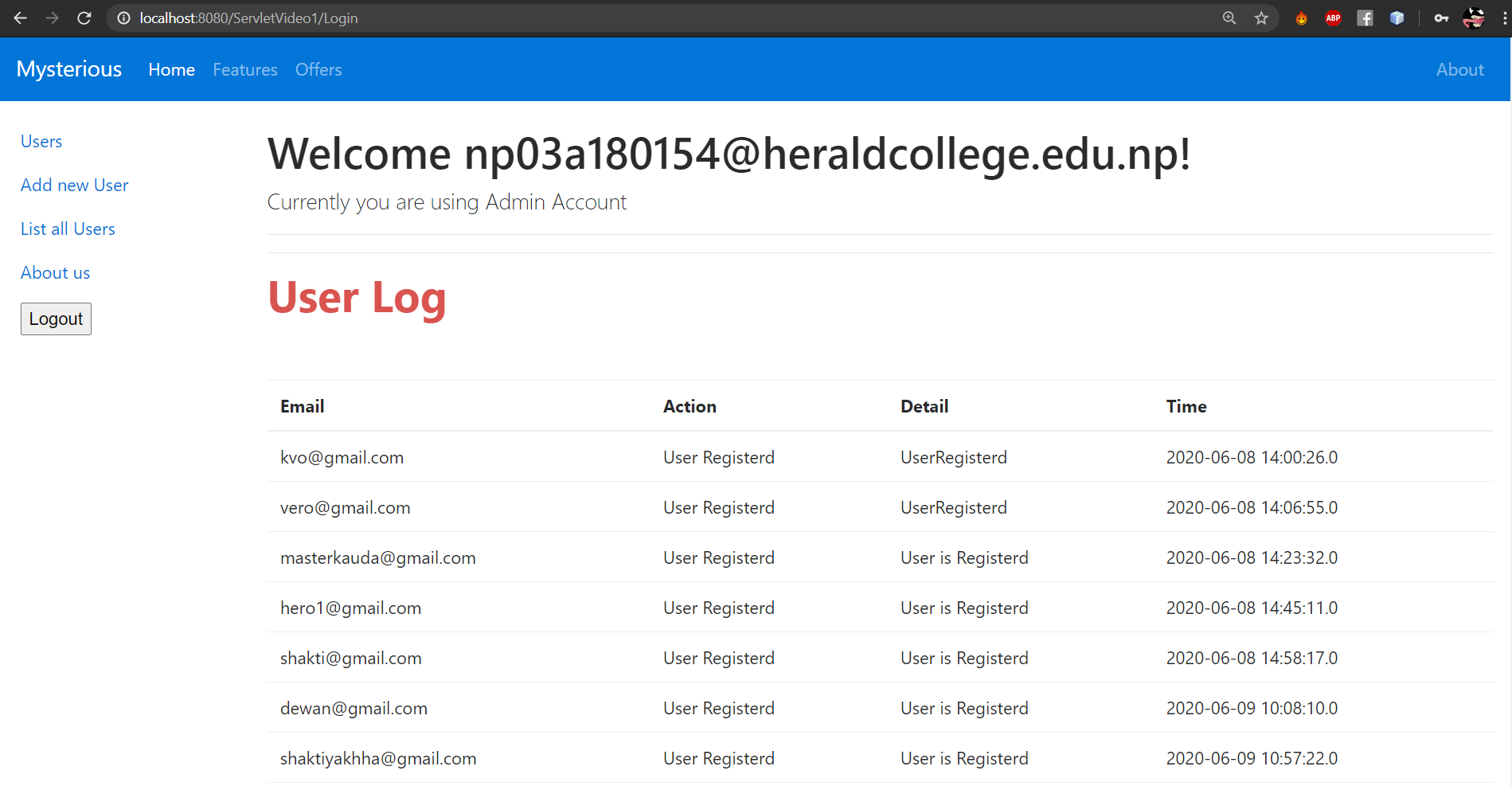


Figure 26 Dashboard for Admin

4. On clicking on **USER TABLE** you can view other users.

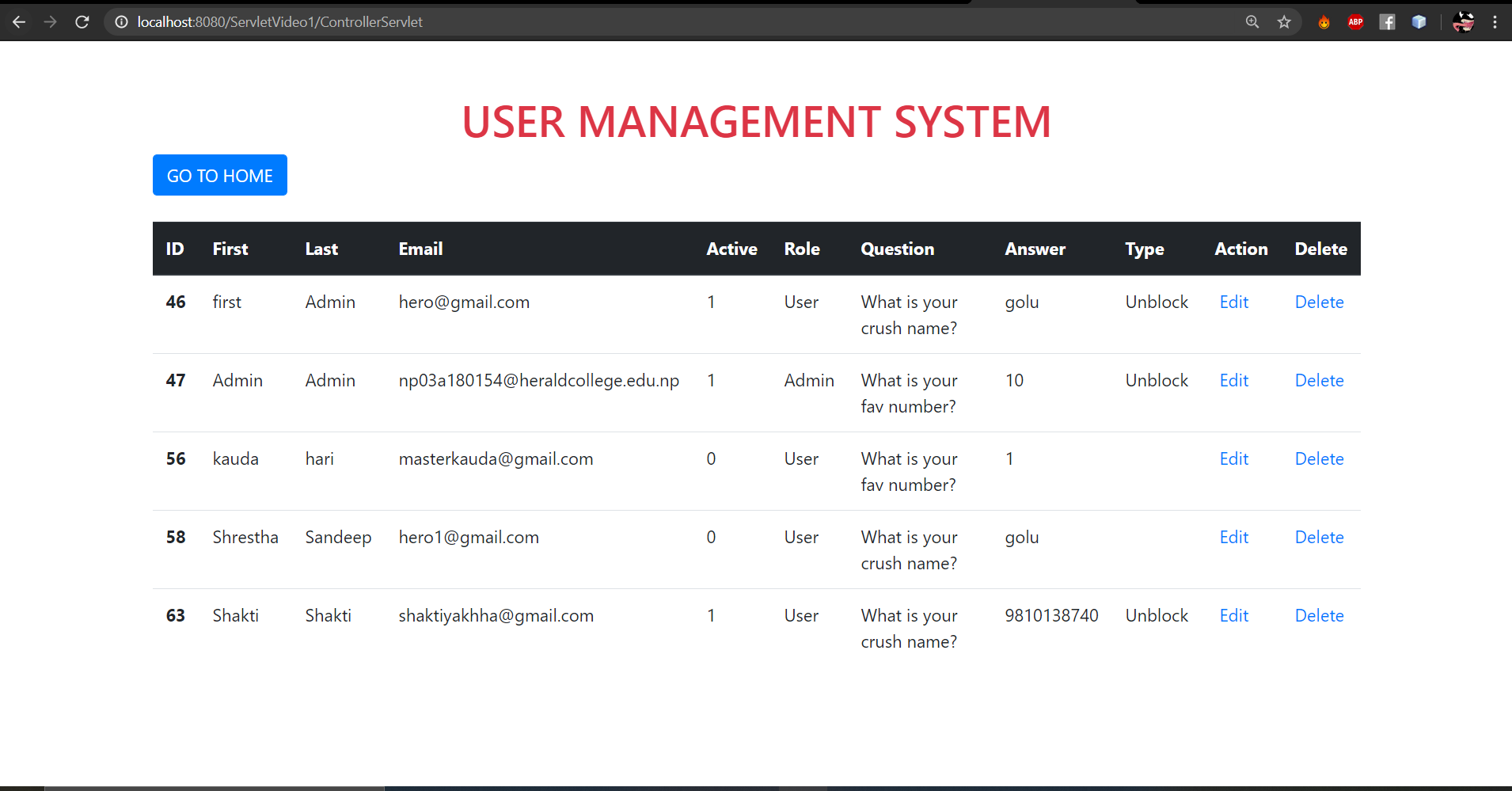


Figure 27 user table for admin

5. On clicking on **ADD USER** button you can add user also. For that enter all the fields and click **ADD** button.

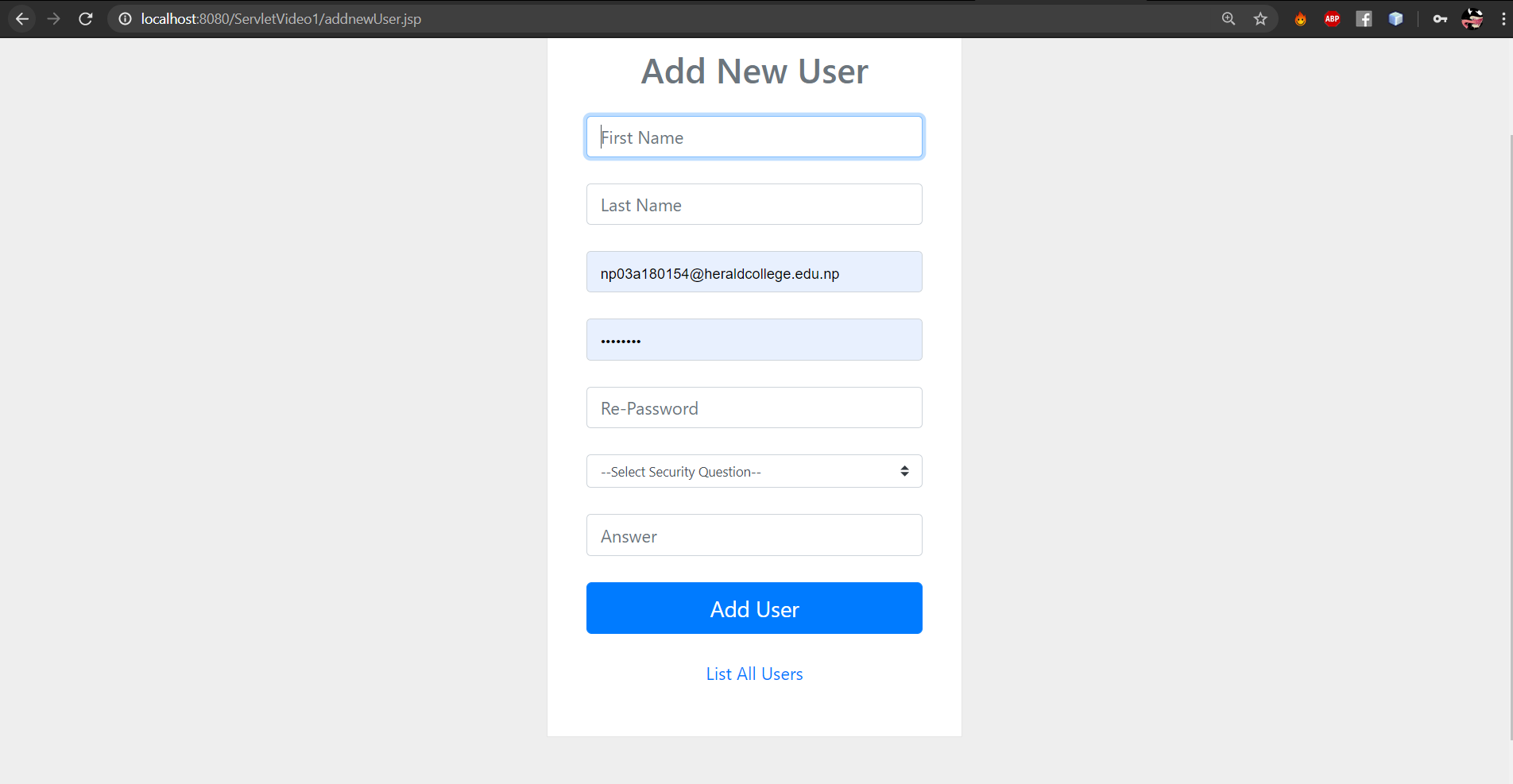


Figure 28 Add new user by Admin

6. On clicking **EDIT** or **DELETE** button you can update or delete users.

7. On clicking **EDIT** button you will be redirected to edit user page where you can edit user info of selected user.

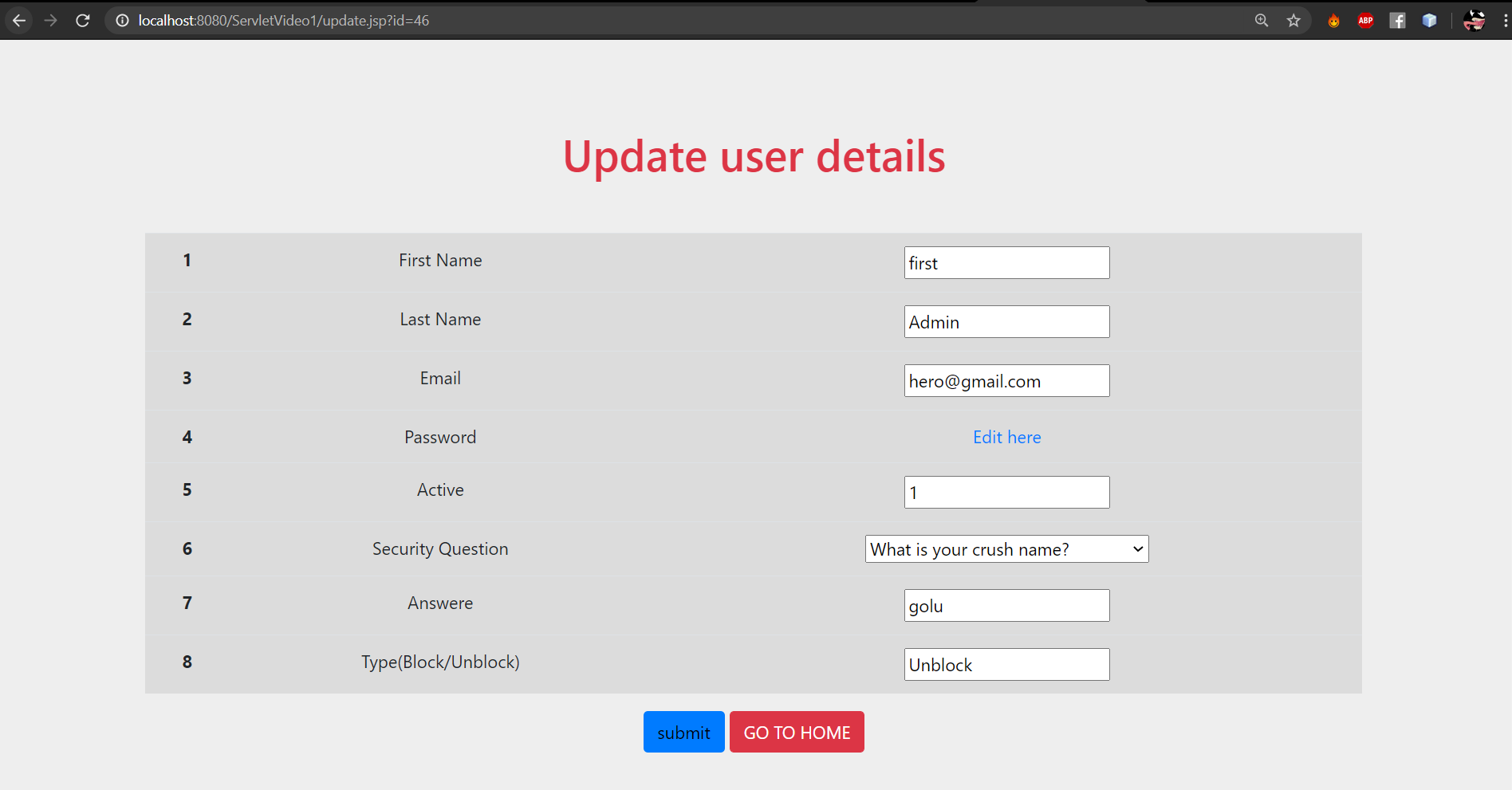


Figure 29 Update user details by Admin

8. You can also block/unblock user just simply clicking **BLOCK/UNBLOCK** button.

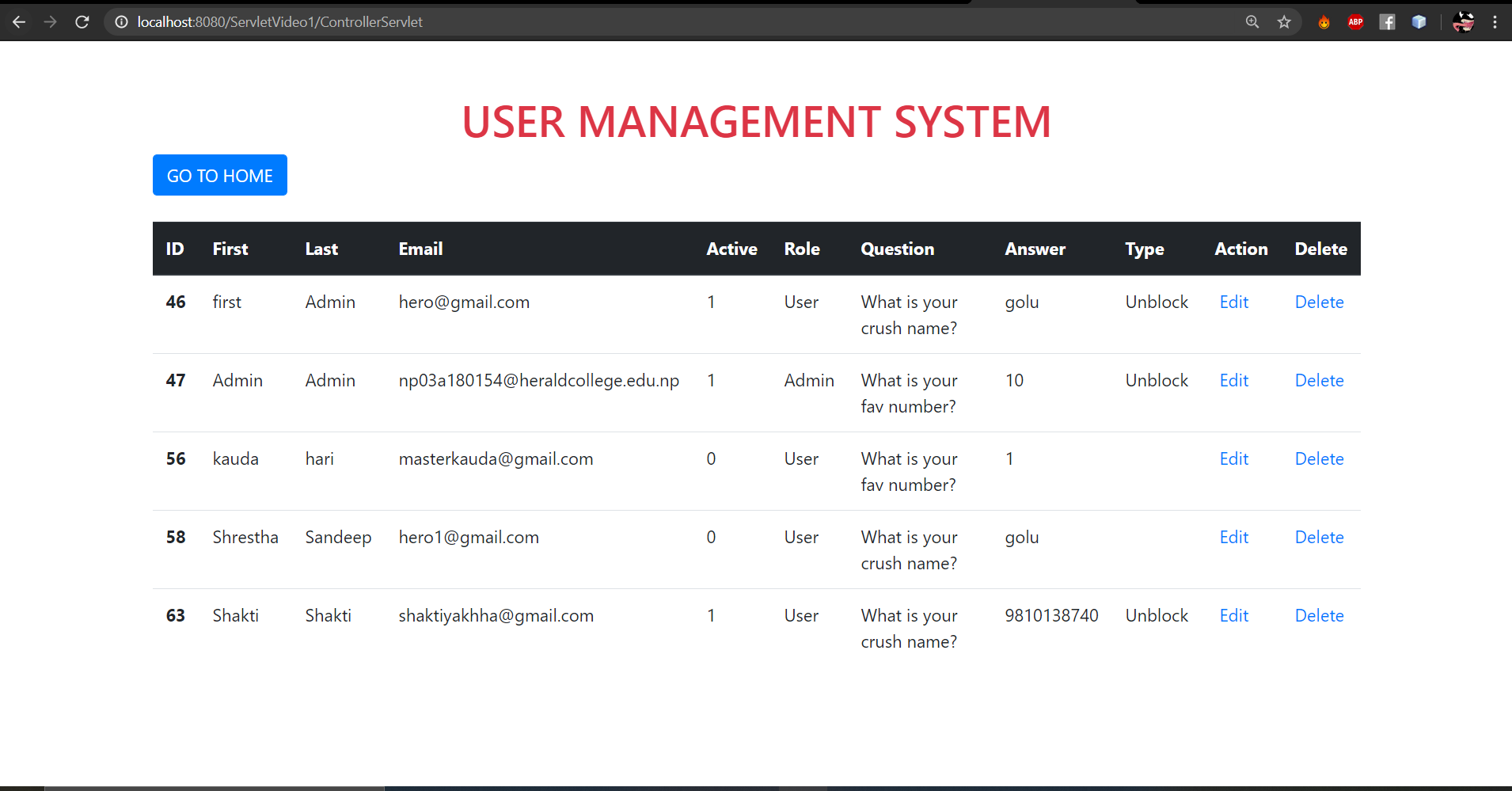


Figure 30 User list for Admin

9. On clicking on **PROFILE** button you can view your profile detail.

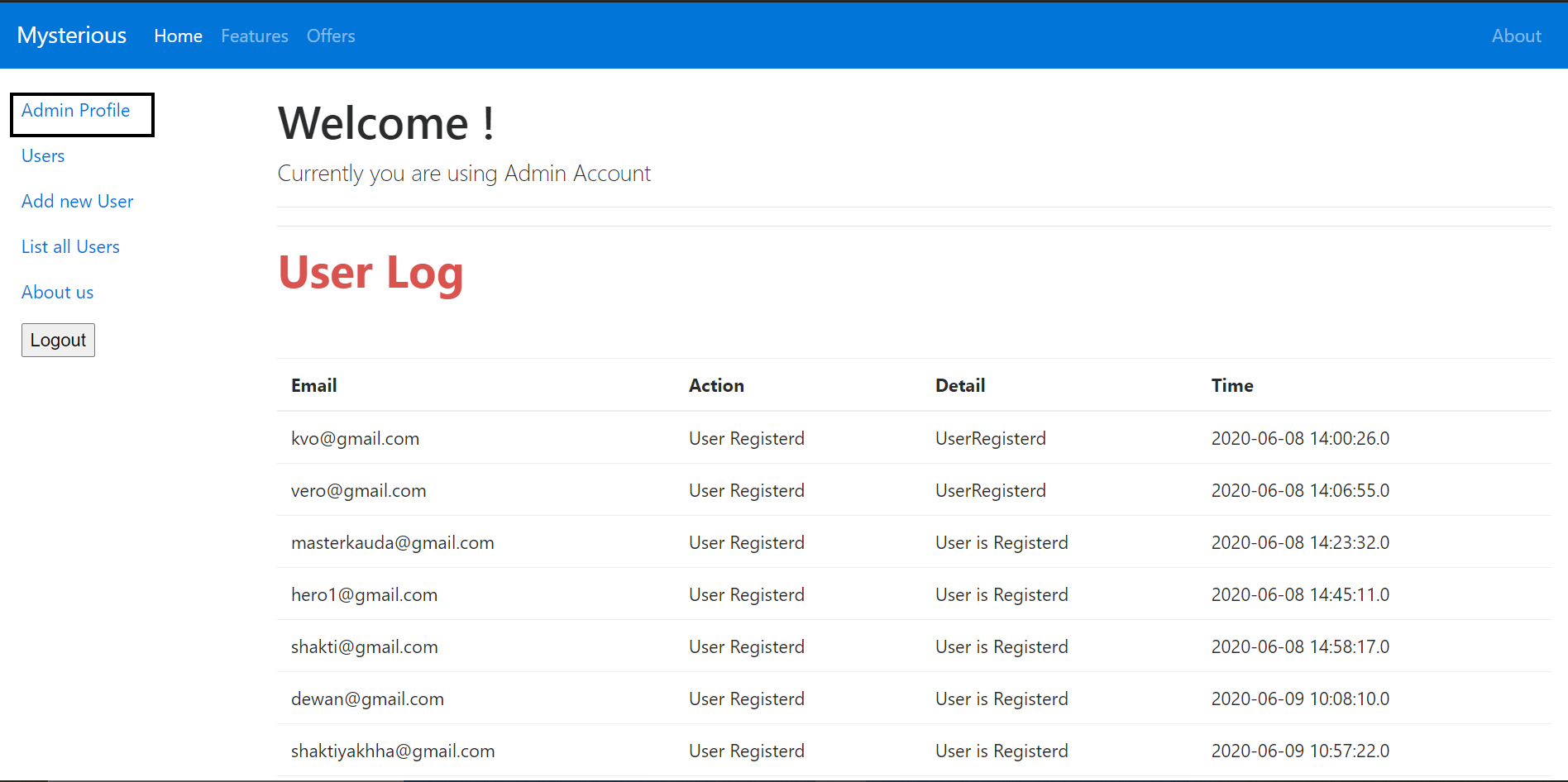


Figure 31 Profile for Admin

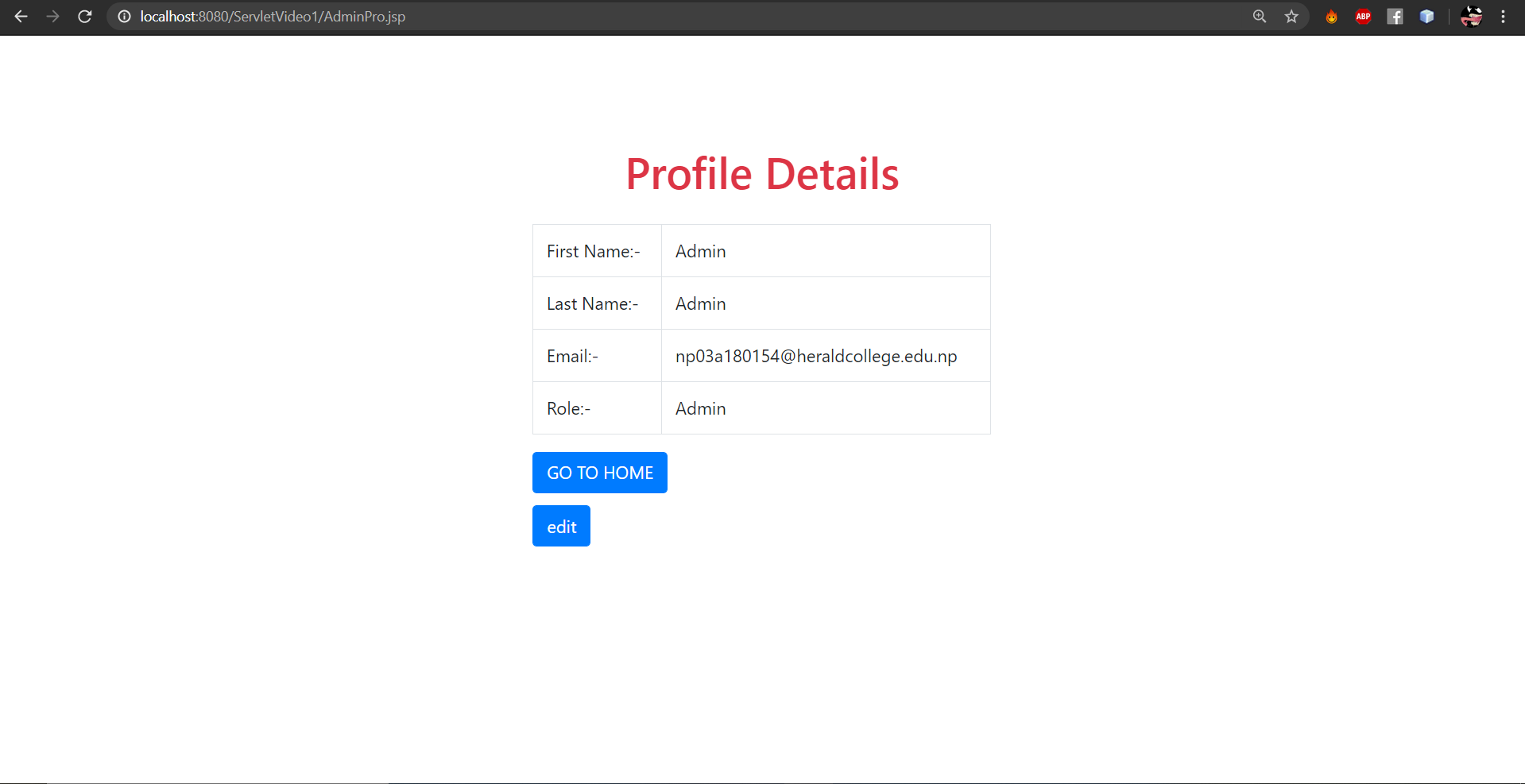


Figure 32 Profile Details for Admin

10. If you have to update your profile then click on **EDIT** button and enter new info and click **UPDATE** button.

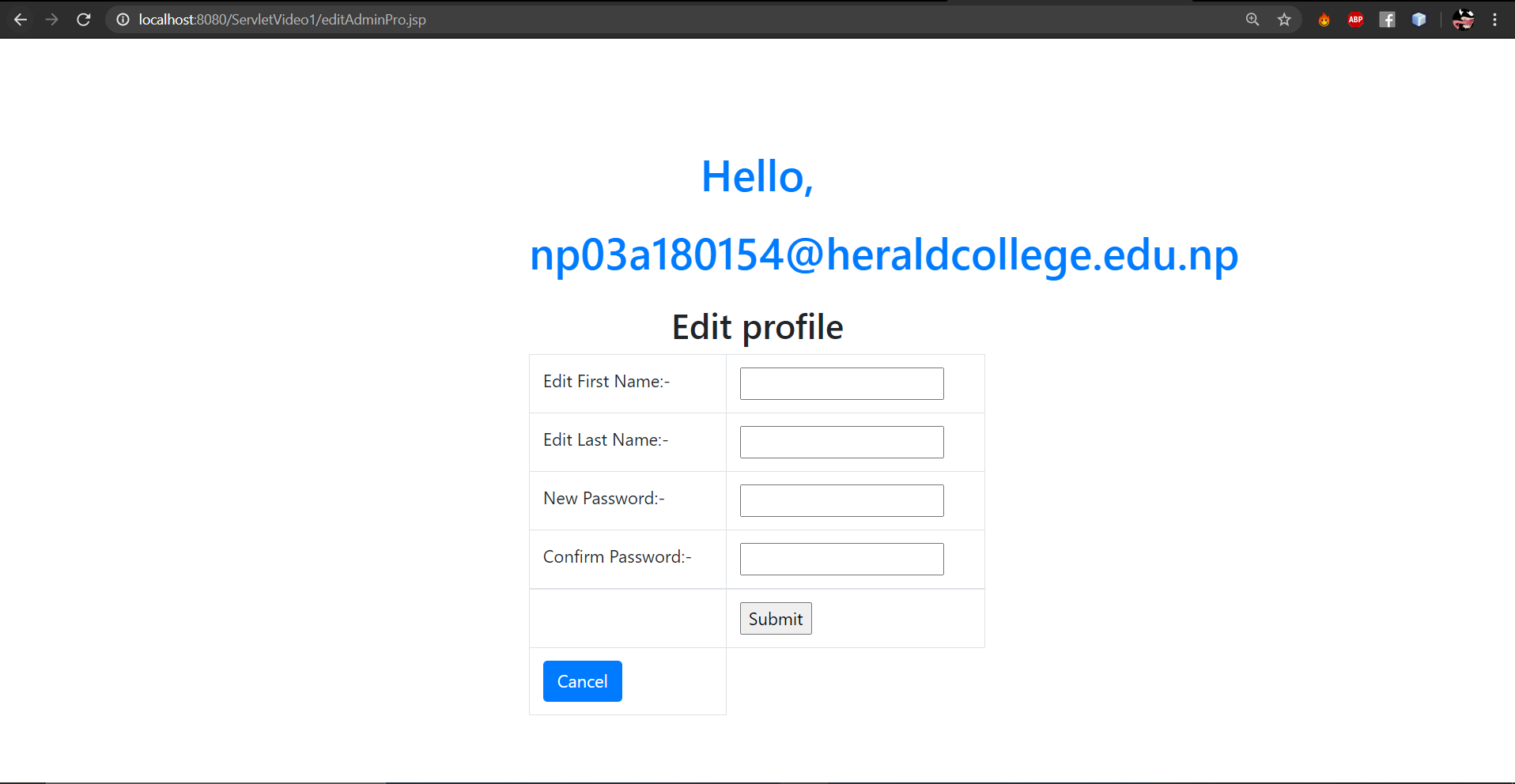


Figure 33 Edit Profile For admin

11. If you are done with all work your click **LOGOUT** button to logout from the system.

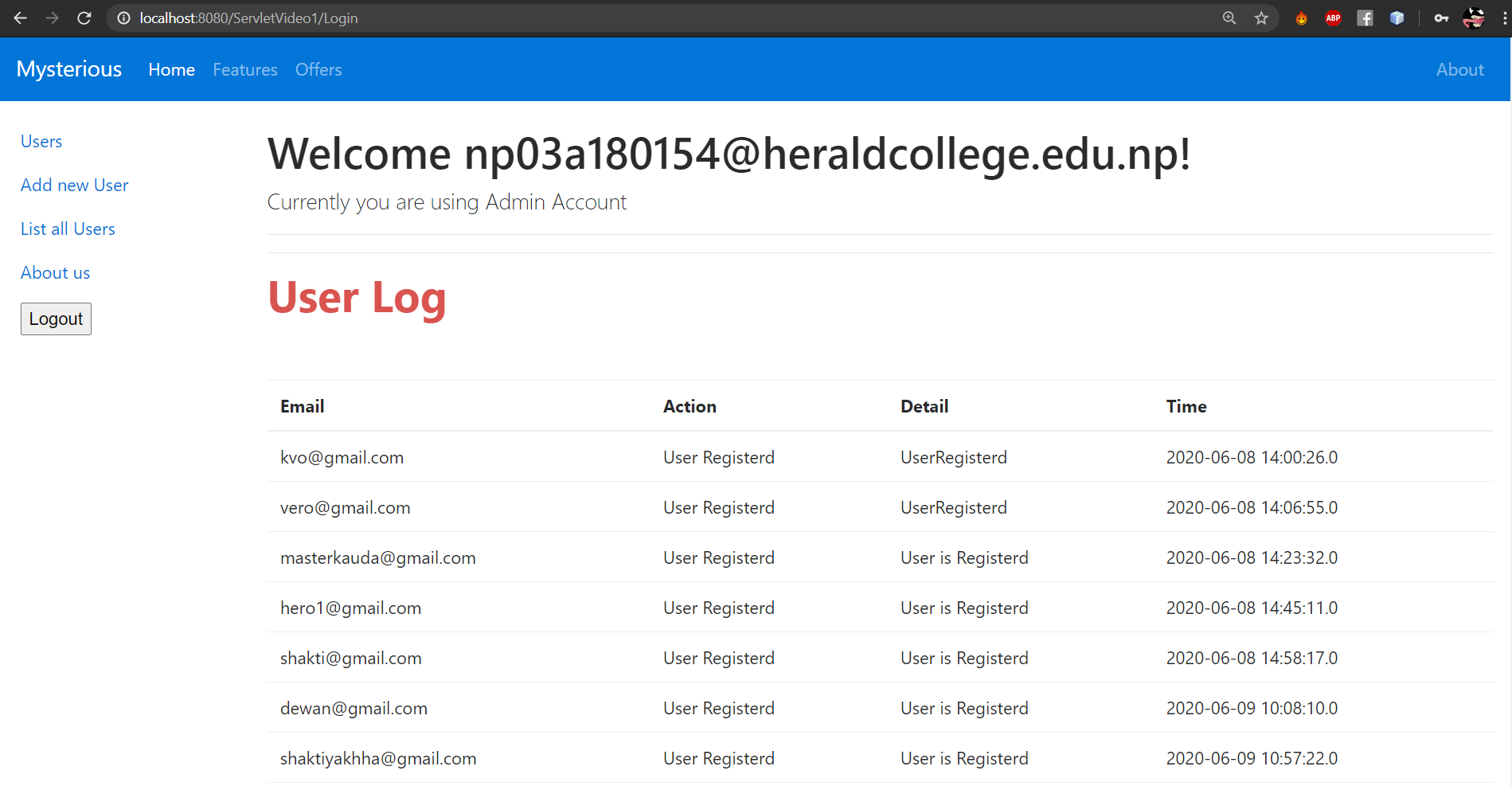


Figure 34 Logout for admin

## 5.2 Logging in as Client:

1. Enter the site URL (<http://localhost:8080/ums>) in your address bar and you will be shown the homepage. Click to **LOGIN** button.

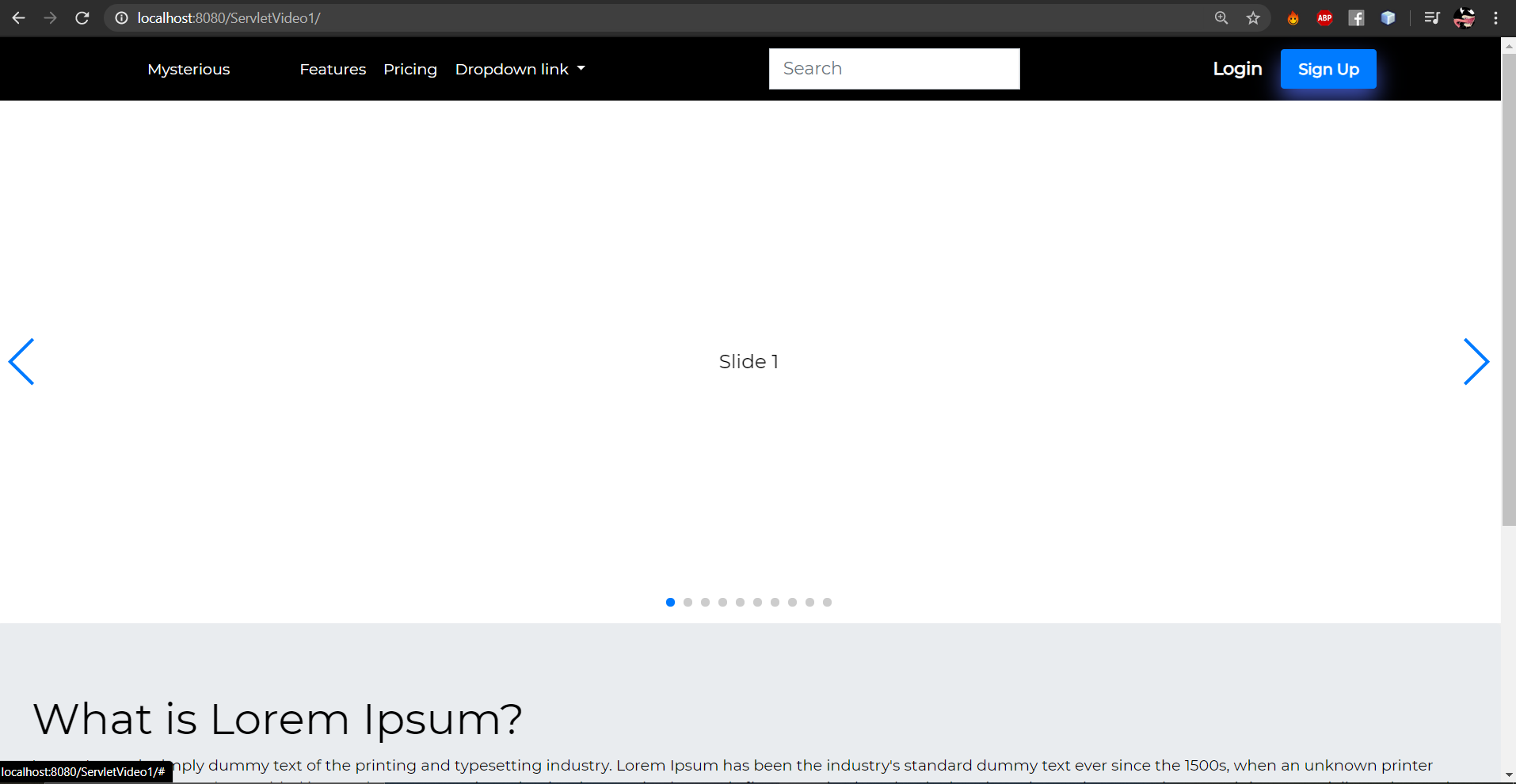


Figure 35 Index Page

2. If you are new to the system then click on **SIGN UP** button.

3. After clicking signup button registration form will be shown where you must enter all the fields as shown below. After that click on **Register** button.

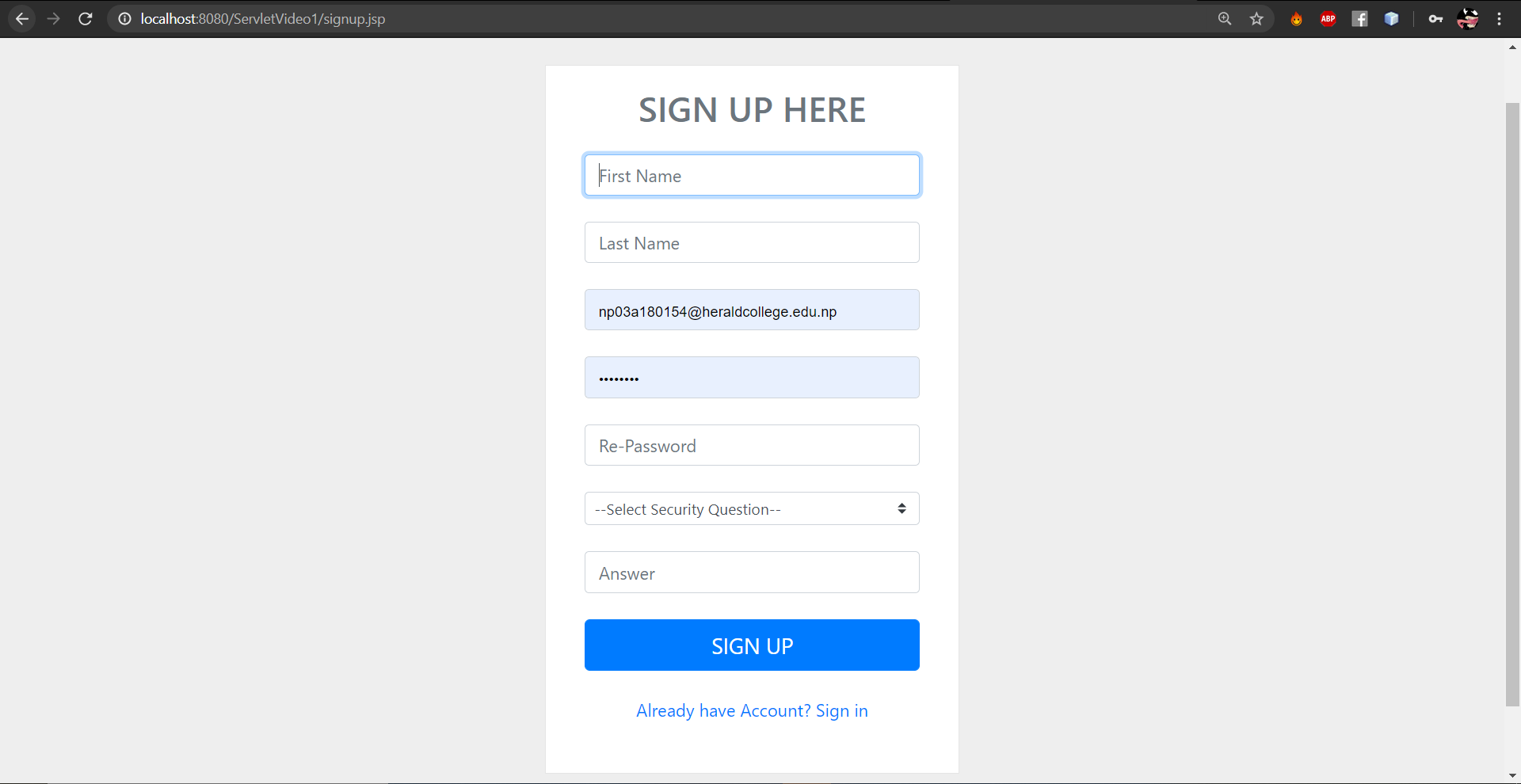


Figure 36 Sign Up

4. If sign up is failed then you will be redirected to register page.

5. If sign up is success then you will be redirect to verification page and check your mail for verification. And CLICK on **VERIFY** link.

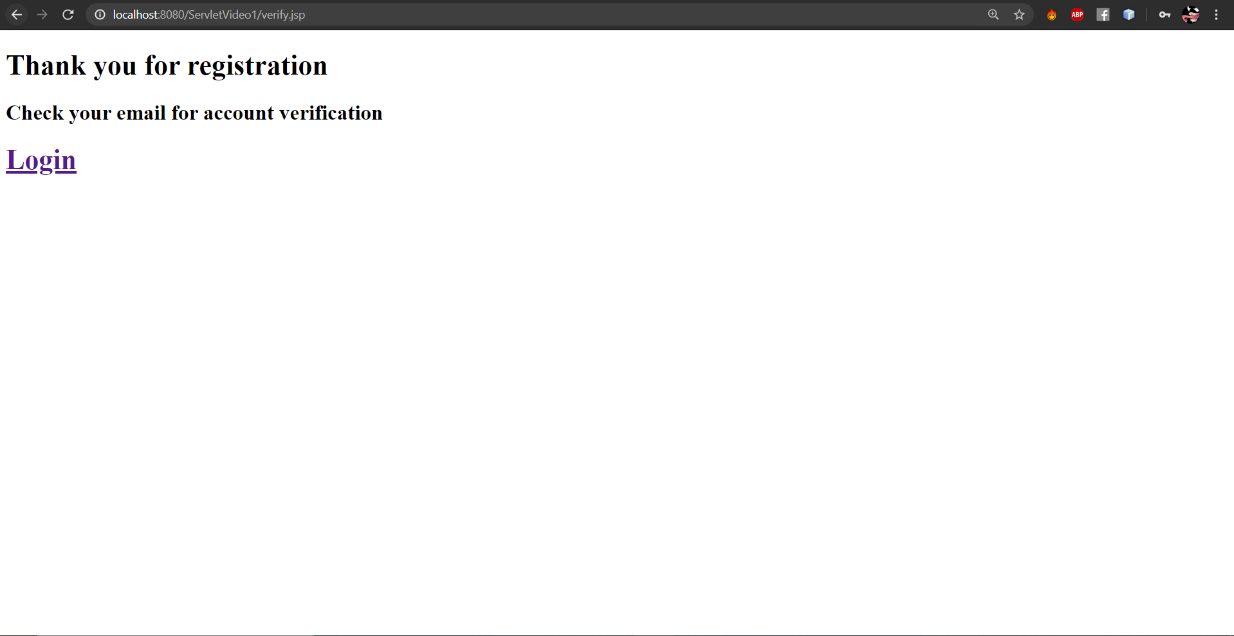


Figure 37 Sending Mail to User

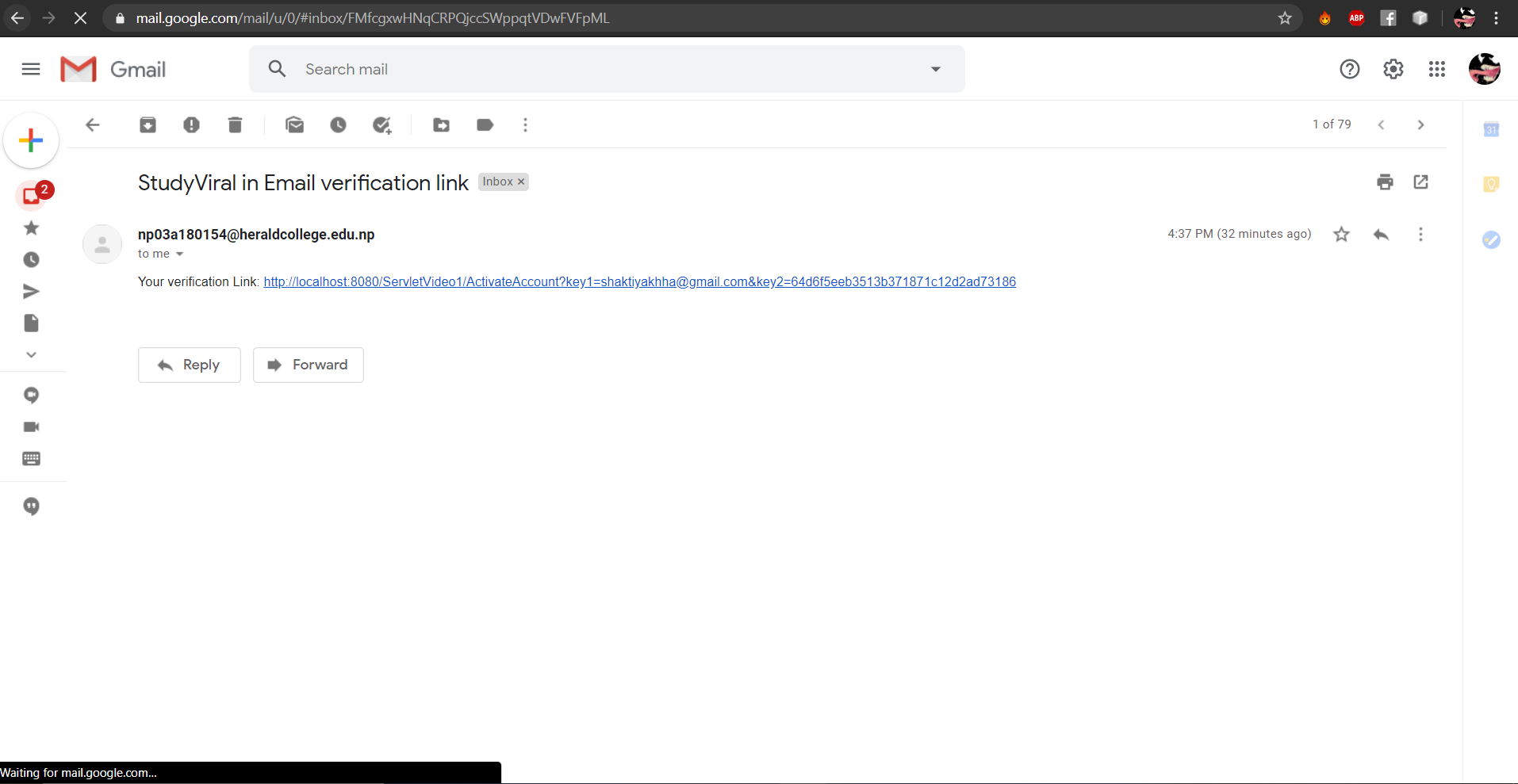


Figure 38 Verification of user

6. after that click on **LOGIN** button to login into the system.

7. To login into system, enter your email and password. And click **LOGIN** button.

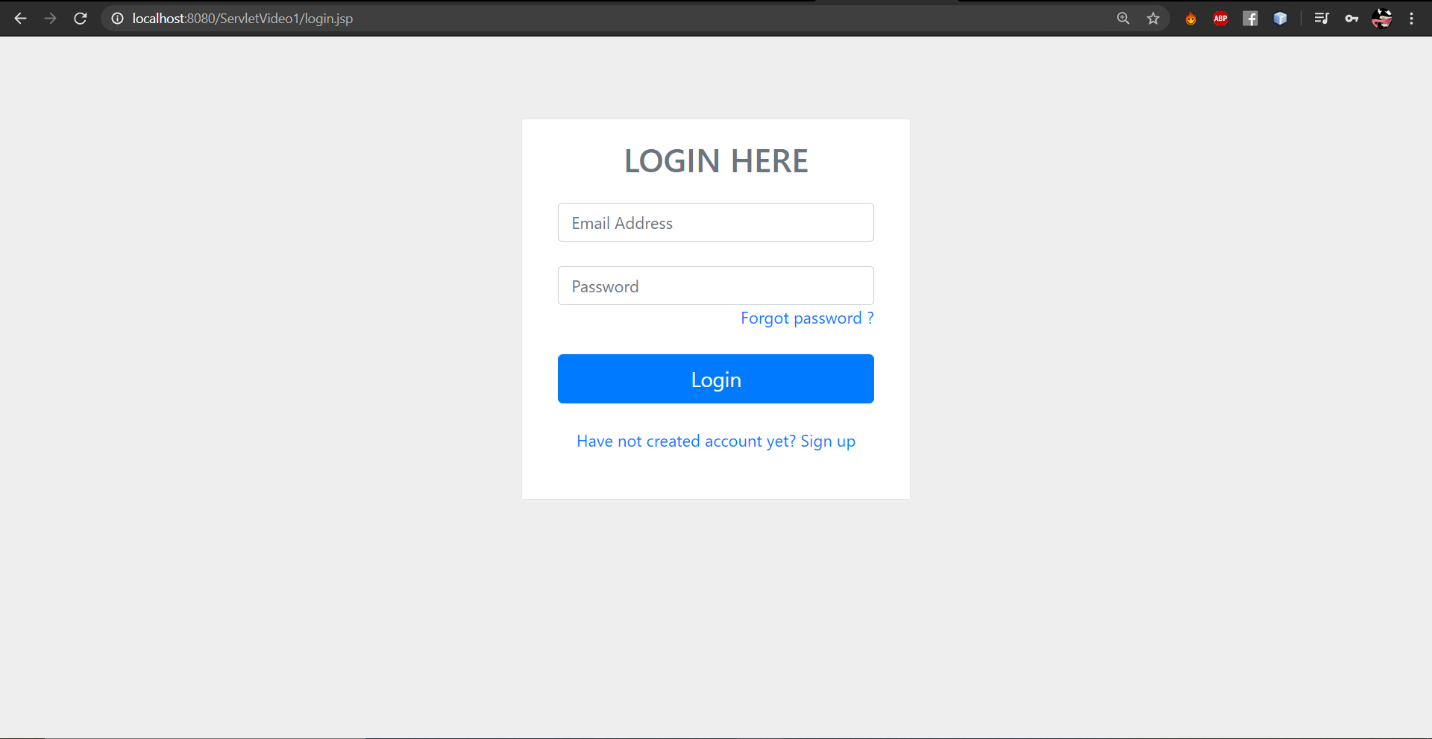


Figure 39 Login Page

8. After login, User dashboard will be shown like this.

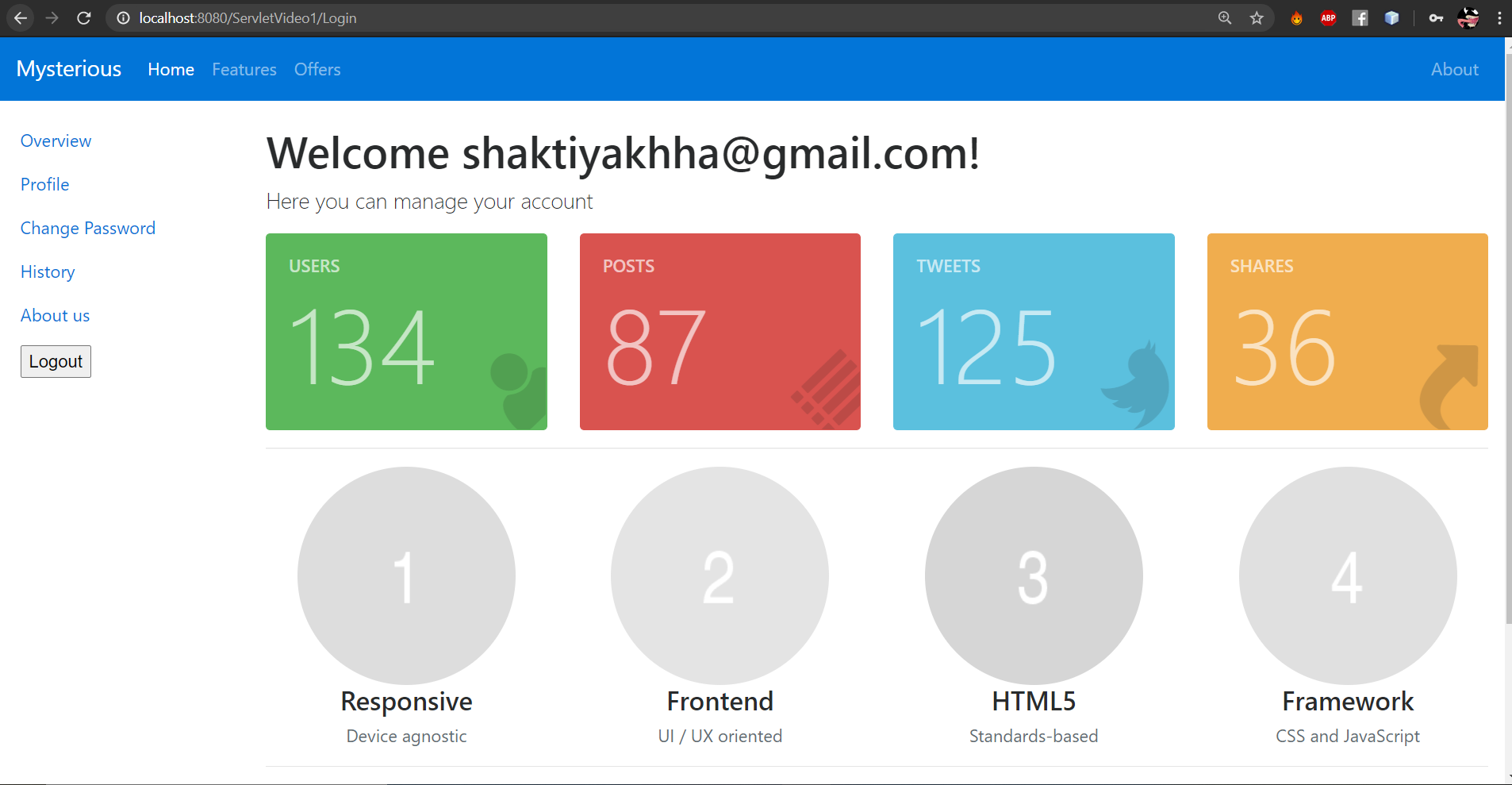


Figure 40 User's Dashboard

9. On clicking on **Profile** button you can view your profile details.

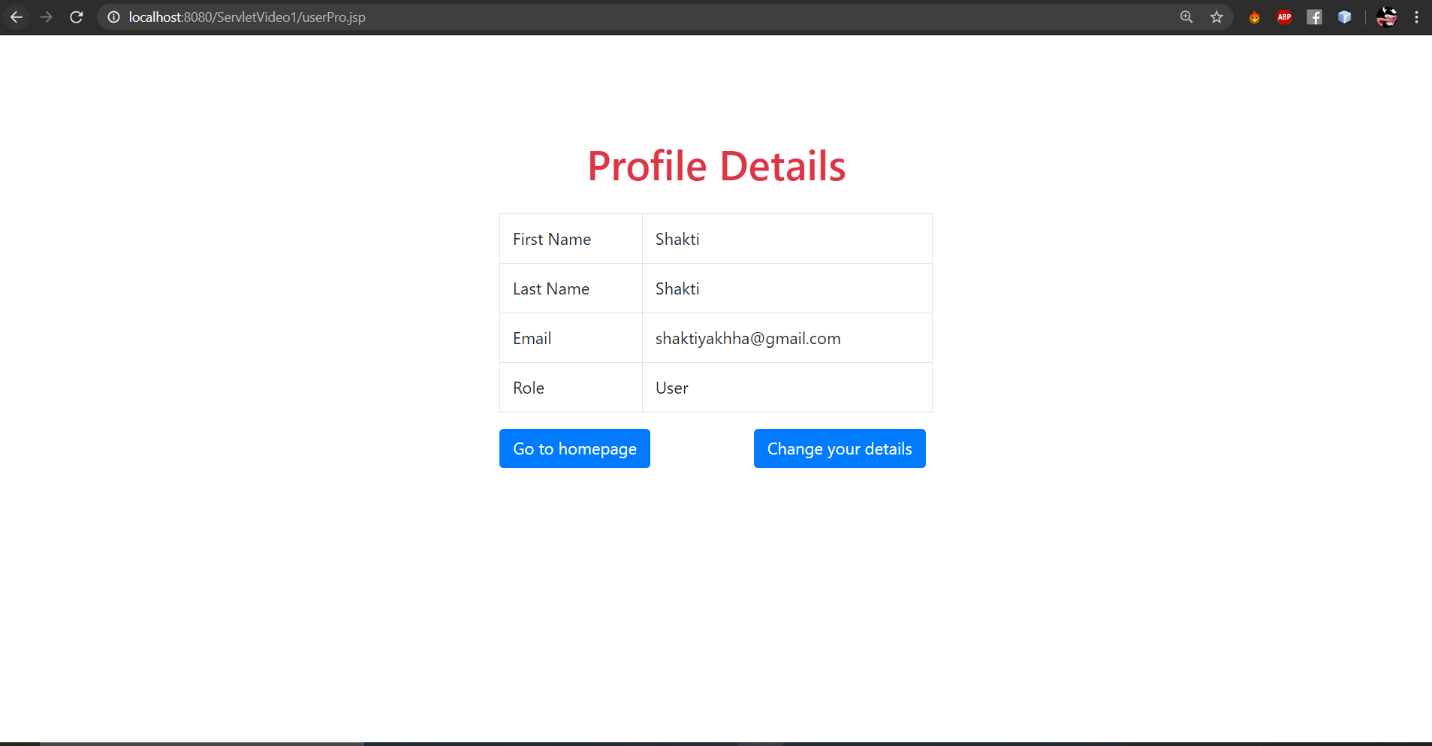


Figure 41 Profile Details

10. If you have to update your profile then click on **edit** button and enter new info and click **update** button.

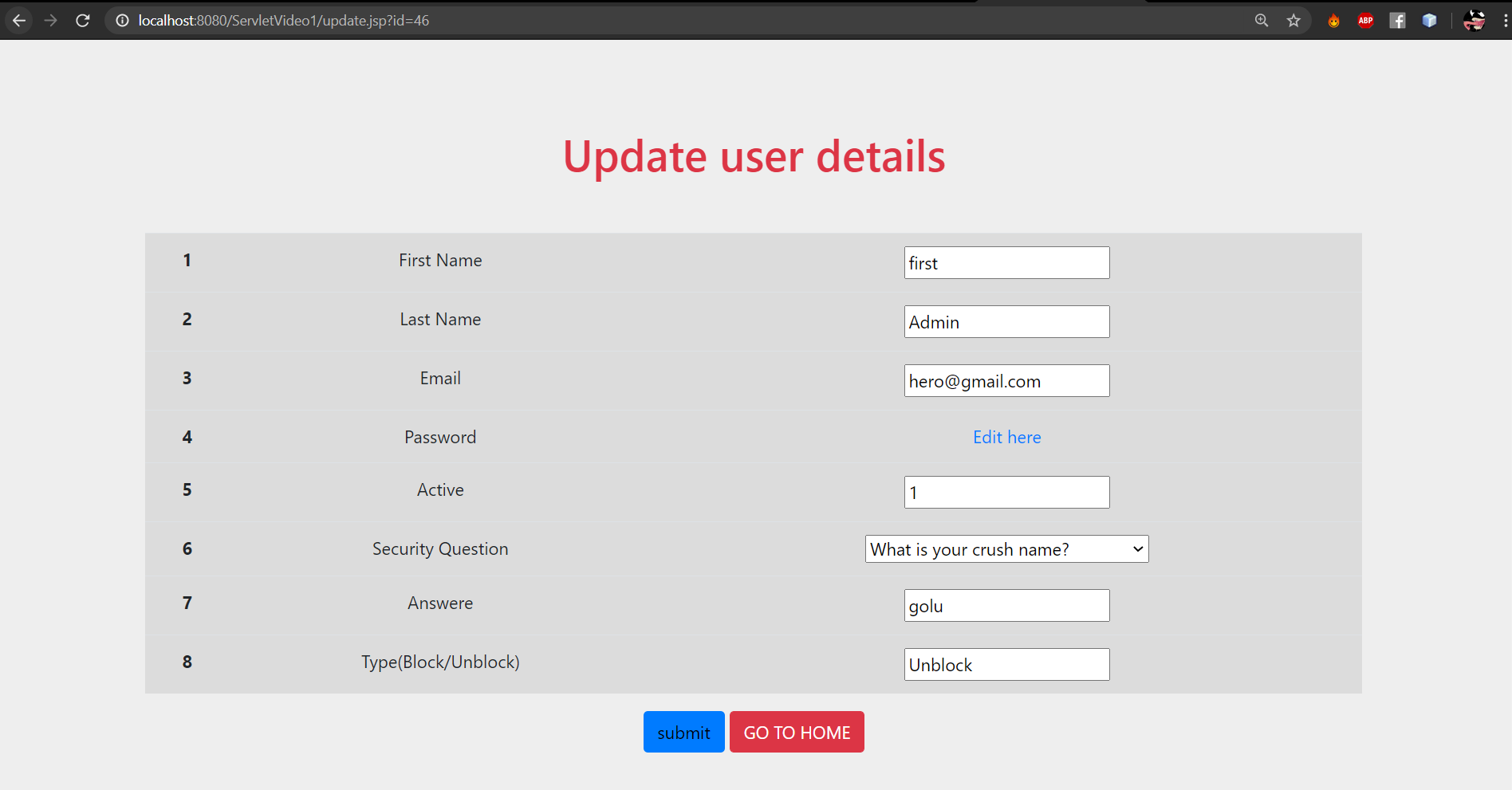


Figure 42 Update User Details

11. You can also view your history log by clicking on **HISTORYLOG**.

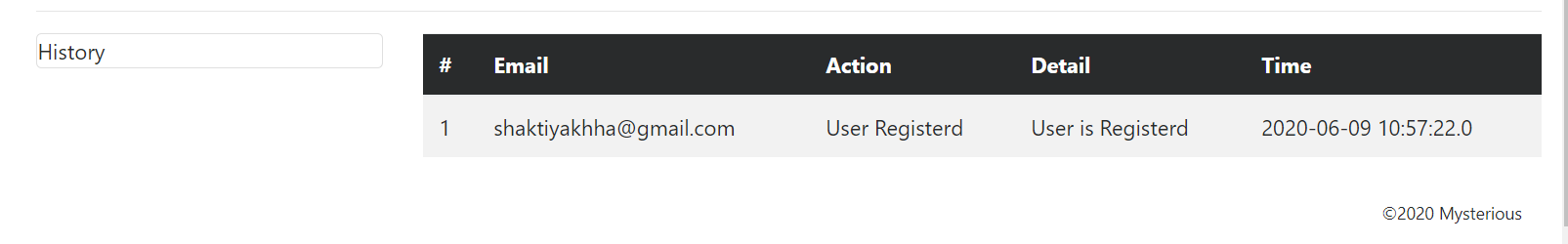


Figure 43 History

12. If you are done with all work your click **LOGOUT** button to logout from the system.

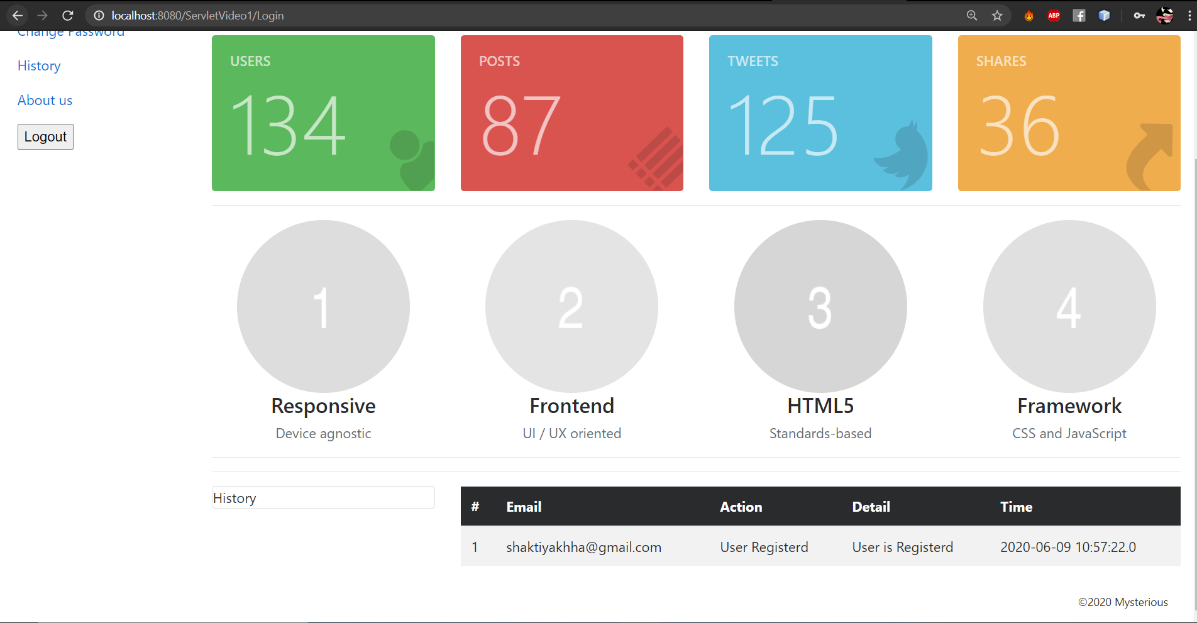


Figure 44 Log out

13. In case you forgot password then GOTO login page and click on **FORGOT** **PASSWORD?** Link.

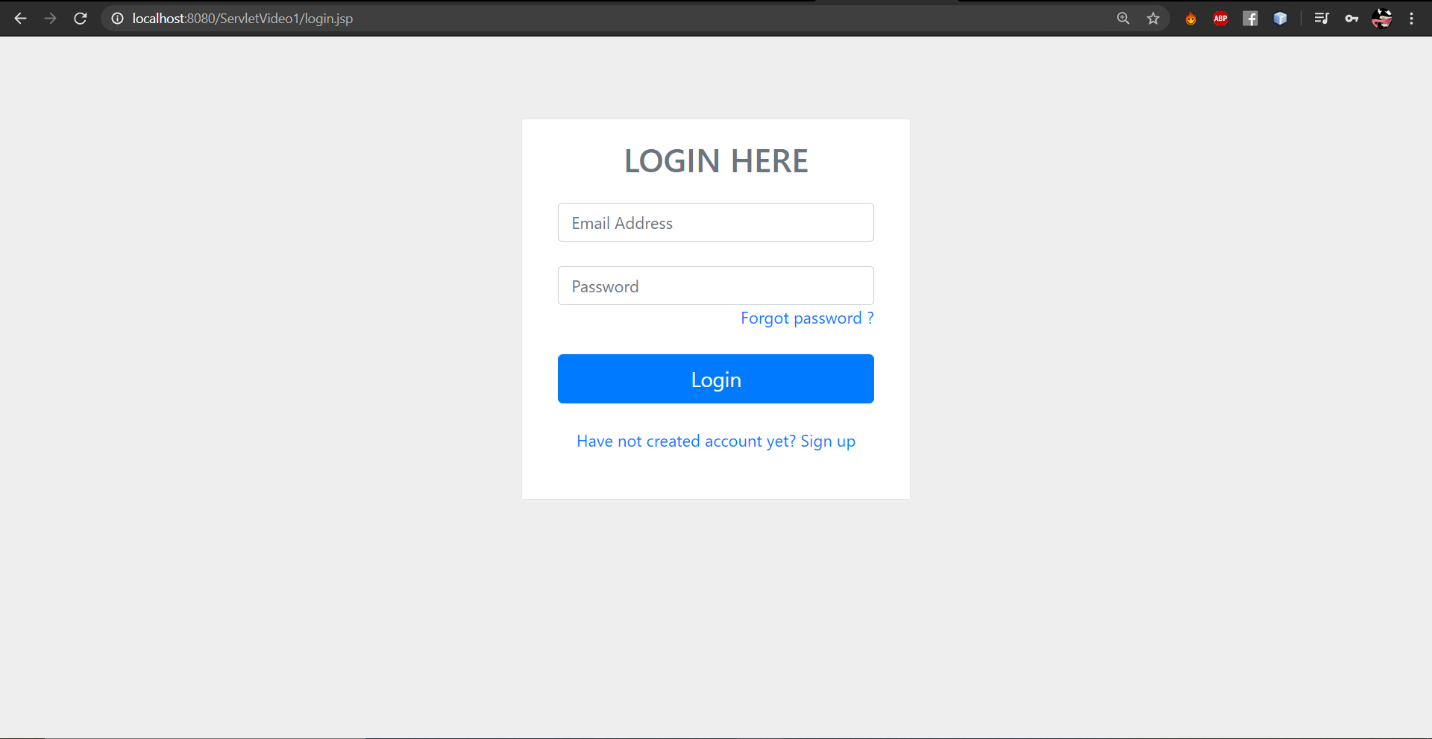


Figure 45 Login Page

14. After that you will be redirected to forgot password page. Here you must choose same security question (same during sign up) and must give same answer (same during sign up time) of it. And **CLICK ON SUBMIT** button.

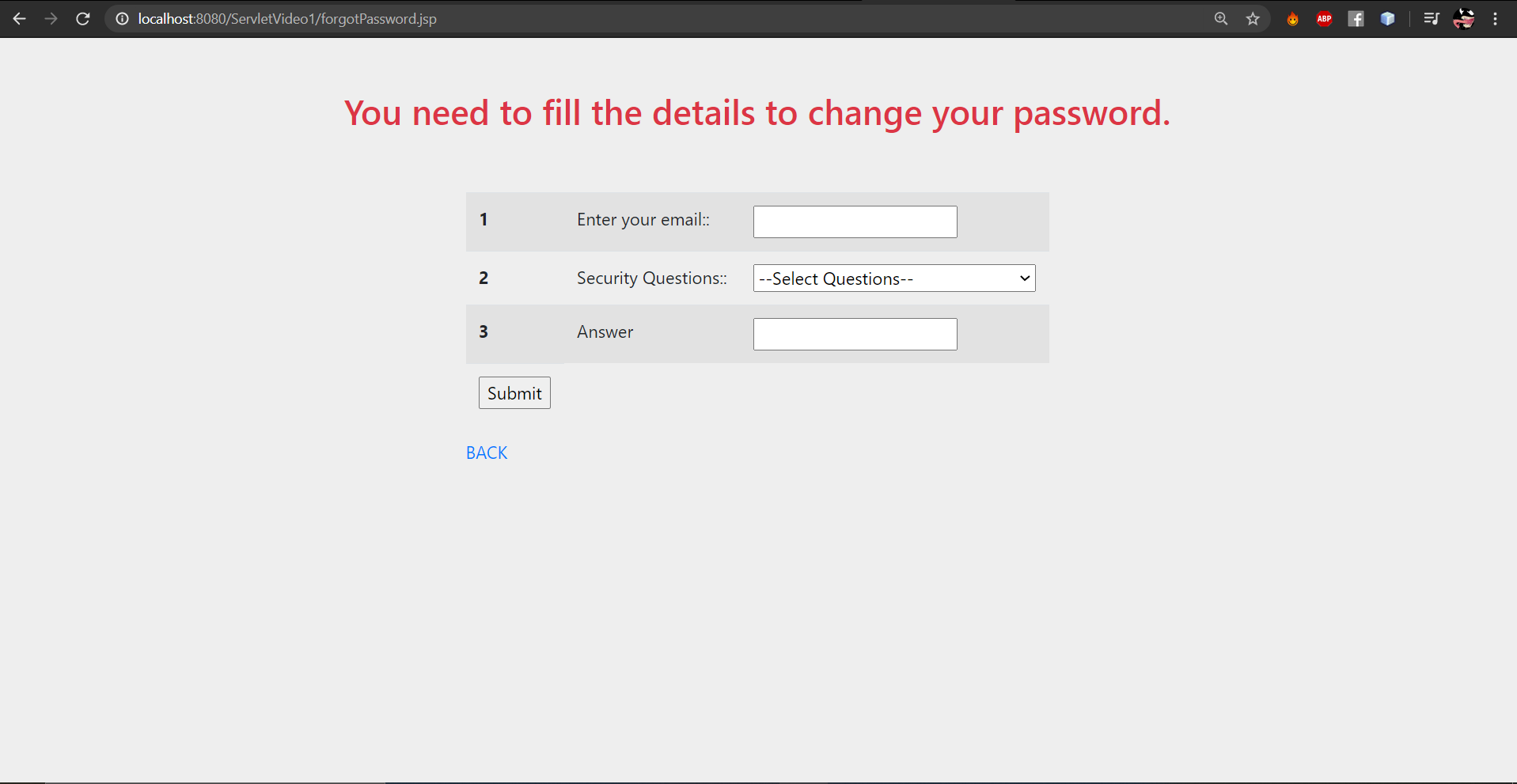


Figure 46 Forgot Password

15. If both question and answer are matched then you will be redirected to Reset Password page. Here you must enter new password and confirm password **then CLICK ON SUBMIT** Button.

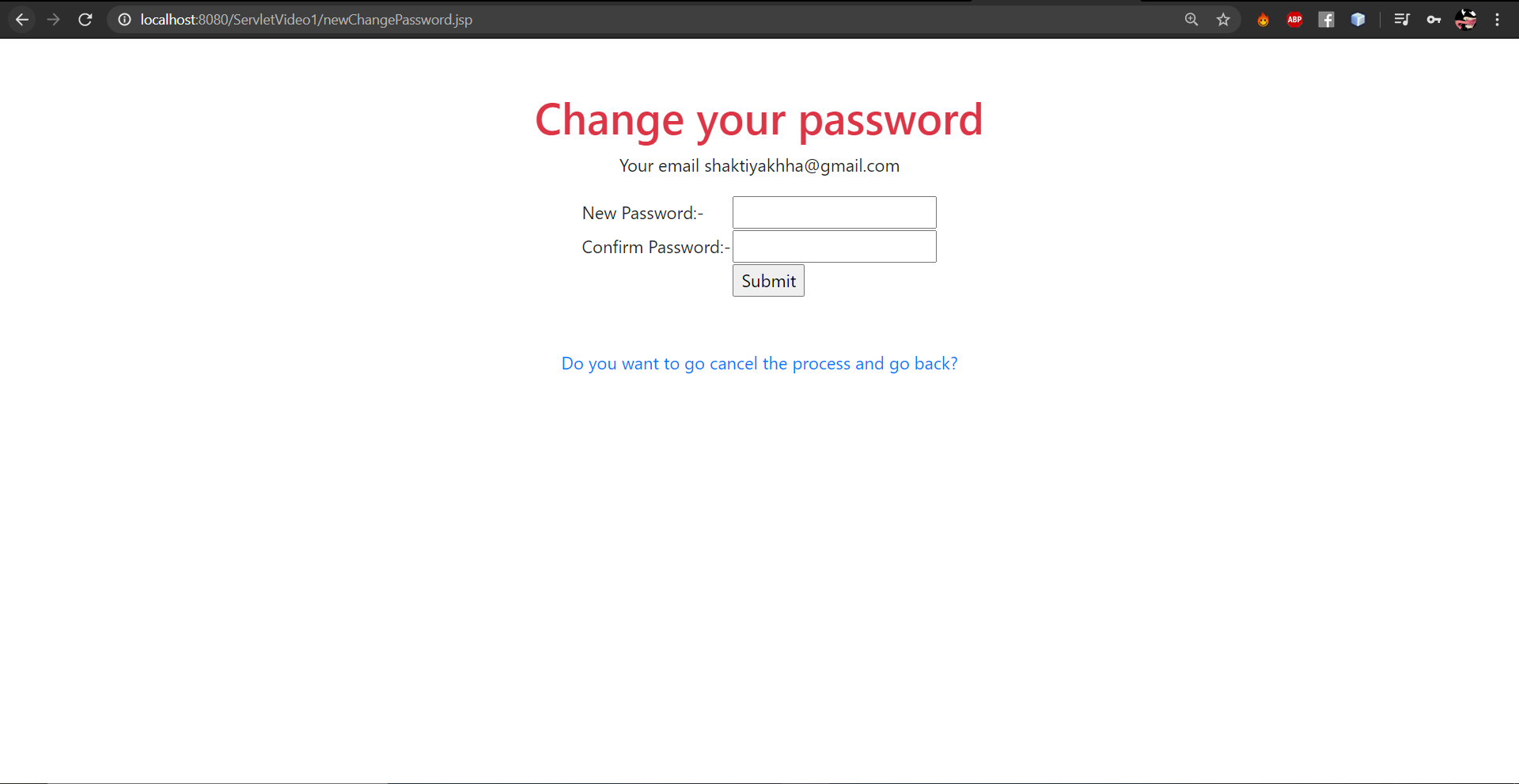


Figure 47 Change your password

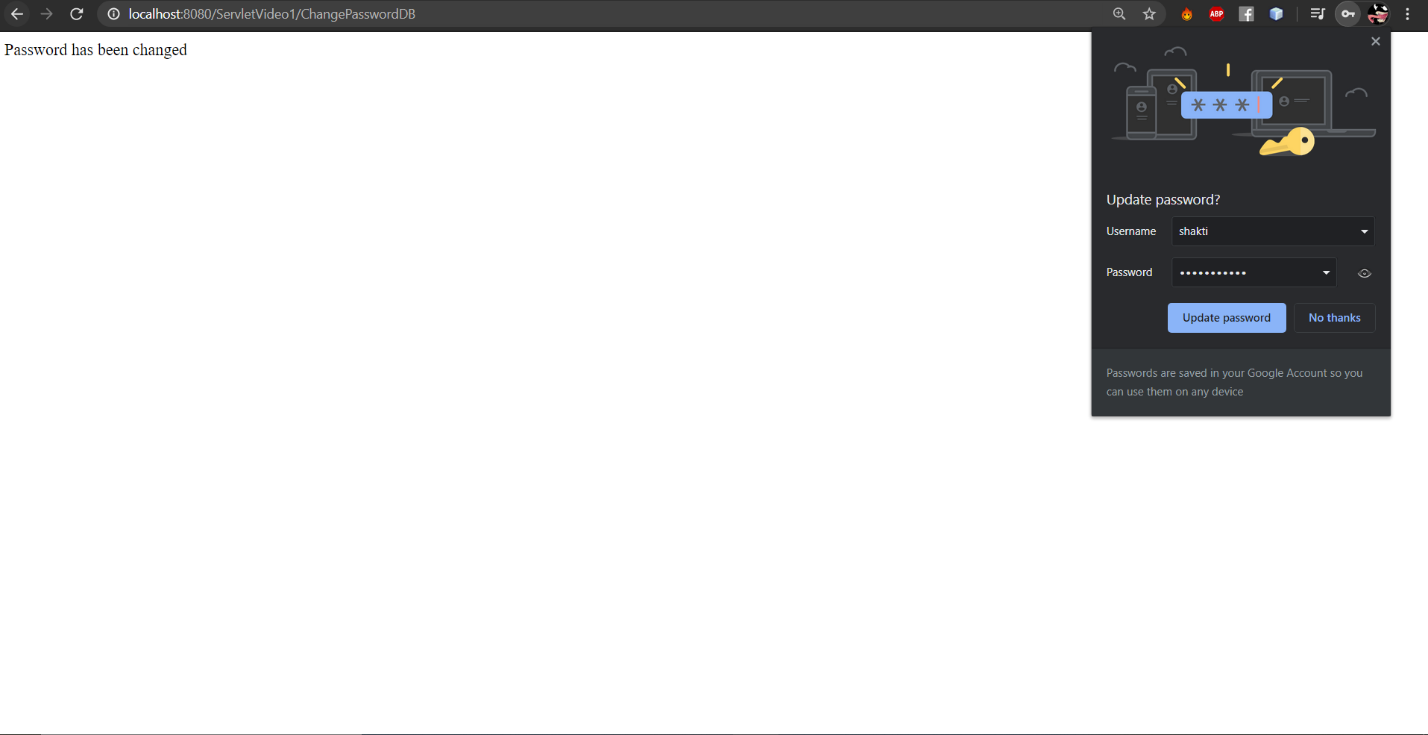


Figure 48 Password Changed

16. After that you can login into the system.

## 5.3 Viewing homepage as a guest:

Enter the site URL (<http://localhost:8080/ums>) in your address bar and you will be shown the homepage. If you want to be a user of this system you can sign up then login into system.

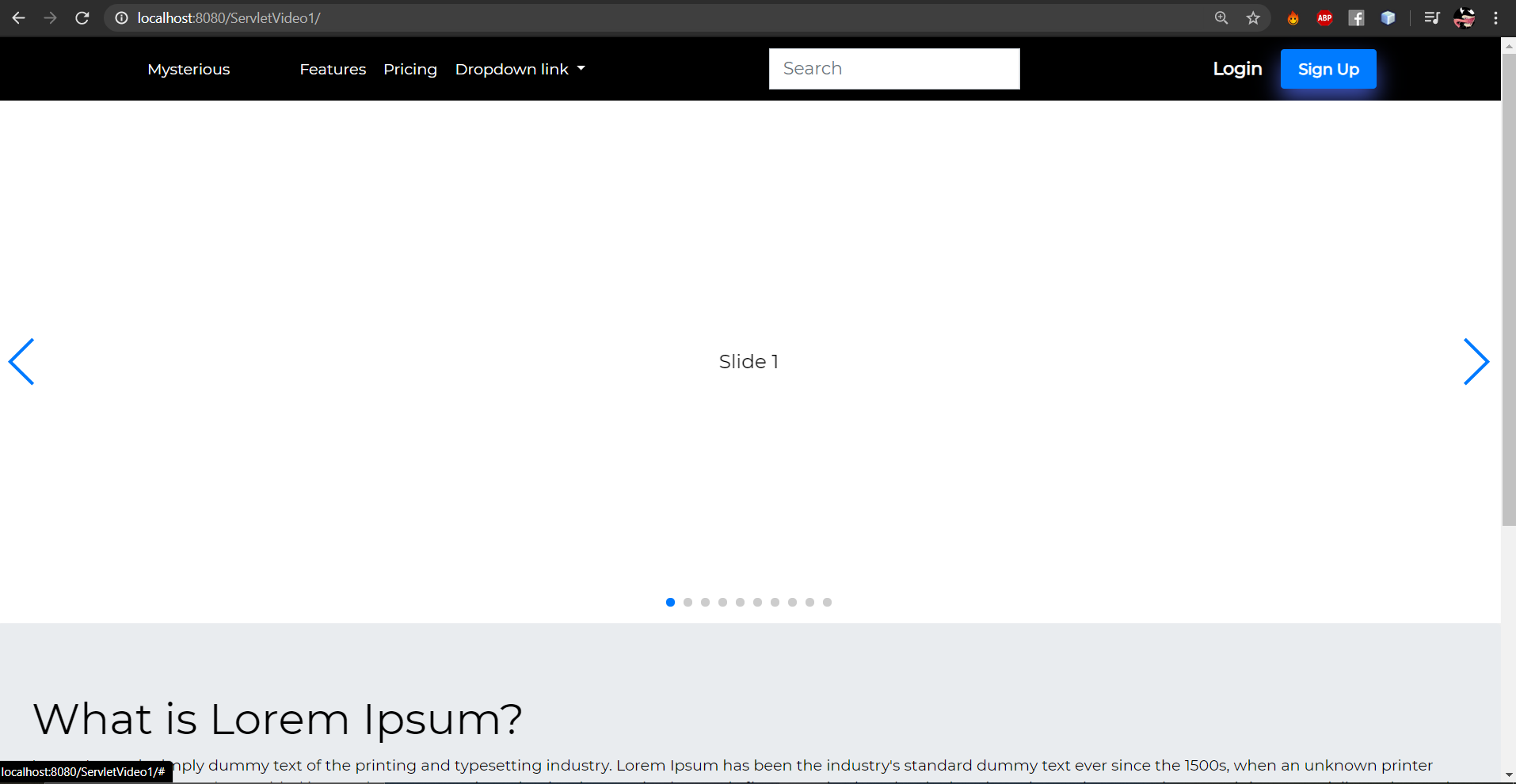


Figure 49 Index Page

# 6. Chapter 6: Testing and Evaluation

## 6.1 Testing of the application:

### 6.1.1 White box Testing:

Test cases written by Junit:

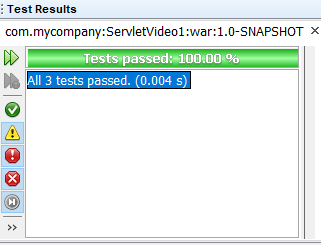
* Login : testing for blank email, role, length of password  
    
  

Figure 50Testing For Login

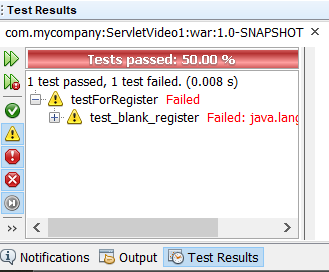
* Register : testing for blank registration, registration  
    
  

Figure 51Testing For Register

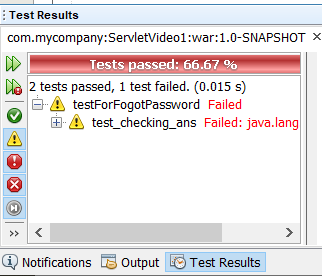
* Forgot Password: testing for checking email, question and answer  
  

Figure 52Testing For Forgot Password

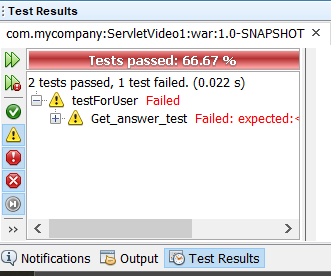
* User : testing for getting id and email and answer  
  

Figure 53Testing For User

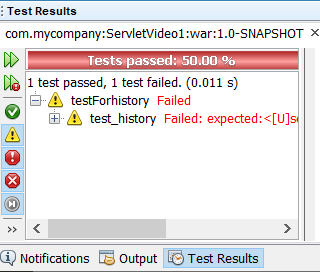
* History : testing for actions and history by user’s email  
    
  

Figure 54Testing For History

### 6.1.2 Black box Testing:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UserStoryID | TestCaseID | Title | Description | TestStep | TestData | EXPECTED RESULT | POSTCONDITION | ACTUAL RESULT | STATUS |
| US001 | TS-1 | Login | Testing login for Admin | 1. Access the software 2.login Screen appears 3.Enter the username and password 4. Click on the login button | username:  admin password:\*\*\*\* | successfully login | Land on admin's home page | pass | TRUE |
| TS-2 | username:"" password:"" | Error Message will be shown. | Land on Login page | pass | TRUE |
| TS-3 | username:  admin1 password:\*\*\*\* | Error Message will be shown: "Invalid Username" | Land on Login page | pass | TRUE |
| TS-4 | Logout | Testing logout for | 1.Click on logout button | N/A | Successfully logout | Lands on Login page | pass | TRUE |
| US002 | TS-5 | View Users | Testing view page for Admin and search users | 1. Go to User page 2. User table appears 3. Click on search bar 4. Enter user name 5. Click on search buttom | Search user: Ram | List of users whose name is  "Ram" | Land on user page |  |  |
| TS-6 | 1. Go to User page 2. User table appers 3. Click on sort by button 4. Select sort option | Sort by : name Sort by: date | List of users by Name in  accending  List of users by date  (recentlly added users) | Land on user page |  |  |
| US003 | TS-7 | Create new user | Admin will create new users. | 1.Go to URL//:  2.Enter username 3.Enter Fullname 4.Enter DOB 5.Enter Adddress 6.Enter Contact 7.Enter Gender 8.Enter user\_type 9.Enter password 10.Enter confirm password 11.Click on Sign Button | Username:"user1" Full Name:"Ram Rai" Date of Birth:"2057-12-12" Address:"Chakrapath,Ktm" Contact:9810178410 Gender:"Male" user\_type:user password:\*\*\*\*\* confim password:\*\*\*\*\* | Account created successfully | Redirect to same page. | pass | TRUE |
| TS-8 | Username:"user1" Full Name:"Ram Rai" Date of Birth:"2057-12-12" Address:"Chakrapath,Ktm" Contact:9810178410 Gender:"Male" user\_type:user password:\*\*\*\*\*\*\*\*\* confim password:\*\*\*\*\* | Error Message will be shown:  "Password doesn't match" | Redirect to same page. | pass | TRUE |
| TS-9 | Username:"admin" Full Name:"Ram Rai" Date of Birth:"2057-12-12" Address:"Chakrapath,Ktm" Contact:9810178410 Gender:"Male" user\_type:user password:\*\*\*\*\* confim password:\*\*\*\*\* | Error Message will be shown: "username already taken" | Redirect to same page. | pass | TRUE |
| US004 | TS-10 | Edit Email of user | Admin will edit email of user | 1. Go to URL//: 2. Select user 3. Click on edit buttom 4. Click on edit email bar 5. Update email 6. Click save buttom | Email:XYZ@gmail.com New Email: ABC@gmail.com  Email:ASD@gmail.com New Email: XYZ@gmail.com | Sucessfully changed  Error Message will be shown: "Email is already used" | Redirect to same page | pass | TRUE |
| US005 | TS-11 | Change the role of users | Admin will change role of users | 1. Go to URL//: 2. Select user 3. Click on edit buttom 4. Click on edit Role bar 5. Update role 6. Click save buttom | Role: user New Role: admin | Sucessfully changed Recorded in history log. | Redirect to same page | pass | TRUE |
| US006 | TS-12 | Change password of users | Admin will change password of user | 1. Go to URL//: 2. Select user 3. Click on edit buttom 4. Click on edit password bar 5. Update password 6. Click save buttom | Current password:\*\*\*\*\*\*\*\* New password: \*\*\*\*\*\*\*\* Confirm password: \*\*\*\*\*\*\*\* | Sucessfully change | Redirect to same page | pass | TRUE |
| Current password:\*\*\*\*\*\*\*\* New password: \*\*\*\*\*\*\* Confirm password: \*\*\*\*\*\*\*\*\* | Error massge will be shown "Password unmatched" |
| US007 | TS-13 | Reset password of users | Admin will reset password if users  forget old password. | 1. Go to URL//: 2. Select user 3. Click on edit buttom 4. Click on edit password bar 5. reset password 6. Click save buttom | Current password:\*\*\*\*\*\* New password: "User123" | Successfully password reset | Redirect to same page | pass | TRUE |
| US008 | TS-14 | Disable user | Admin will disable user for  temporarily | 1. Go to URL//: 2. Select user 3. Click on disable buttom 4. Click save buttom | disable user | User is disable temporarily | Redirect to same page | pass | TRUE |
| US009 | TS-15 | enable user | Admin will enable user | 1. Go to URL//: 2. Select user 3. Click on enable buttom 4. Click save buttom | Enable user | User is enable. | Redirect to same page | pass | TRUE |
| US0010 | TS-16 | Remove user | Admin will remove user | 1. Go to URL//: 2. Select user 3. Click on remove buttom 4. Click save buttom | username="ram" | User is removed. | Redirect to same page. Go to database check user  table. select \* from user where  username="ram" this record should  not be found | pass | TRUE |
| US0011 | TS-17 | History log | Admin will view history of users | 1. Go to URL//: 2. Navigate to User table 3.Select user  4.Click on "history" button | username="sita12" | List of activities performed by user. | Land on History page. | pass | TRUE |
| US0012 | TS-18 | Report | Admin will view report page of users | 1. Go to URL//:  2.Click on "Report" button 3. Select option  4. Choose the report format | Choose option: Weekly  Choose option: Monthly Choose option: Annually | Graphical representation of data (Total user, active, inactive users) i.e Pi chrat | Land on Report page | pass | TRUE |
| USC001 | TS-19 | Register | Client will register | 1.Go to sign up page  2.Enter username  3.Enter Fullname  4.Enter DOB  5.Enter Adddress  6.Enter Contact  7.Enter Gender  8.Enter user\_type  9.Enter password  10.Enter confirm password  11.Click on Sign Button | username:Ram fullname: ram limbu DOB: 2055-02-25 Address: Chakrapath contact: 98552555 Gender: Male user\_type: user password: shsh confirm password: shsh | Successfully registered | Land on Login page | pass | TRUE |
| USC002 | TS-20 | Login/Logout | Testing login for user | 1. Go to login page 2.login Screen appears 3.Enter the username and password 4. Click on the login button | username:Ram123 password:\*\*\*\*\*\*\*\*  username:"' password:"" | Sucessfully logged in  Error message will be shown: "Invalid username/password" | home page | pass | TRUE |
| TS-21 | Login/Logout | Testing log out for user | 1.Click on logout button | N/A | Sucessfully logged out | login page | pass | TRUE |
| USC003 | TS-22 | Update email address | User can update their email address | 1. Go to URL//: 2. Click on profile info 3. Click on edit buttom 4. Click on edit email bar 5. Update email 6. Click save buttom | Email:XYZ@gmail.com  New Email: ABC@gmail.com   Email:ASD@gmail.com  New Email: XYZ@gmail.com | Sucessfully changed   Error Message will be shown:  "Email is already used" | Redirect to same page | pass | TRUE |
| USC004 | TS-23 | Recover account | User can recover their account if  they forgot password | 1. Go to login page 2.login Screen appears 3. Click on the forgot password button | Email: ABC@gmail.com \*\*Send recovery code in  given email\*\* Code: 873654  New password:\*\*\*\*\*\*\*\* | Sucessfully changed  Error massege will be shown if code incorrect:"Invalid code" | Redirect to login page | pass | TRUE |

# 7. Chapter 7: Conclusion and Future Scope

## 7.1 Conclusion:

In conclusion, User Management System is a web application which have the functionality to create user account and manage account. In this web application user can create account and manage their account. There are mainly three types of users, they are Admin, Client, and Guest.

And at last it can be concluded that this project was a real experience. This project helped us in gaining valuable information and knowledge on several topics like Java web application, junit testing, database connectivity, CRUD operation and many more. During this course of assignment, we have gone through various obstacles. But thanks to our lecturer without the help of his guidance and internet we could not have our job done. After completing this assignment, we are very clear with all the basic java web application, Junit testing, database connectivity, and CRUD operation through web application which will be going to assist us in future.

## 7.2 Future Scope:

## 

The future scope of this project is:

1. Adding more features like dealing with monitoring the information and transection of online.

2. Adding more types of users according to their roles.

3. Allowing users to add profile picture and more user information like age, phone, etc.

4. Allowing users to sign up using their Google or Facebook account using OAuth.

5. Using OTP (One-time password) based verification instead of security question.

6. Using JSON Web Tokens instead of sessions.

# Contribution sheet:

|  |  |  |  |
| --- | --- | --- | --- |
| **Questions** | **Completion Date** | **Details** | **Contribution** |
| 1 | 2020-04-13 | User Stories | Member 1,2,3,4:  Member 1: User stories and acceptance criteria  Member 2: User stories and acceptance criteria  Member 3: Dependencies  Member 4: Story points |
|  |  | Acceptance Criteria |  |
|  |  | Dependencies |  |
|  |  | Story Points |  |
|  |  |  |  |
| 2 | 2020-04-16 | Data Dictionary, according to the stories written | Member 1,2,3,4:  Member 2: Wireframe  Member 3: Mockups  Member 1: Data dictionary  Member 4: Mockups |
|  |  | Mockup Design link to user stories |  |
|  |  |  |  |
| 3 | 2020-05-10 | Implement the user stories written | Member 1,2,3,4:  Member 1: forgot password, history, toast, validation and role based authentication  Member 2: login, signup, sending email, homepage, logout  Member 3: Add, delete, read ,update user, dashboard  Member 4: Edit data, database connection, block, unblock , Front end |
|  |  | Implementation according to user story |  |
|  |  | Proper output |  |
|  |  | Code Commenting |  |
|  |  | Design pattern used |  |
|  |  |  |  |
| 4 | 2020-04-28 | Test case for every functionality according to the user stories written | Member 1,2,3:  Member 1: Test cases for admin user stories.  Member 3: Test cases for guest user stories  Member 2: Junit unit testing, test cases for client user stories |
| 5 | 2020-06-8 | Documentation | Member 1,2,3,4:  Member 1: Implementation, Conclusion and future scope, data dictionary, user manual, Gantt chart  Member 2: Testing/evaluation and formatting ,contribution sheet, user manual  Member 3: Full details of the artefact and Deployment guide, ERD, context diagram, class diagram, use case diagram,  Member 4: Introduction, Development, implementation, plan/schedule. sequence diagram |

Member 1: Sandeep Shrestha [NP03A180154]

Member 2: Shakti Dewan [NP03A180169]

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Member 4: Sadish Gautam [NP03A180167]

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