

**DESIGN AND IMPLEMENTATION OF THE DIGITAL CENSUS
(ADAMSHUMARI) PERSPECTIVE ON BANGLADESH**

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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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DHAKA, BANGLADESH

JULY 2020

APPROVAL

This Project/internship titled “**Design And Implementation of the Digital Census (Adamshumari) perspective on Bangladesh**”, submitted by Hridoy Ahmed, ID No: 162-15-7981, Farhana Tabassum Prapty, ID No: 162-15-7985 and Tanveer Ahmed, ID No: 162-15-8194 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 08th July, 2020.

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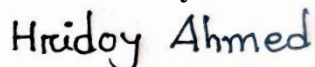
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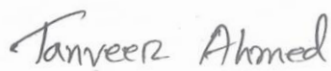
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ACKNOWLEDGEMENT

At first, we want to express our cordial gratefulness to **Almighty Allah** for His divine blessings who help us to focus on our final destination perfectly and gives us mental strength to finish our final year project successfully.

Secondly, we are grateful to our supervisor **Abdus Sattar**, Assistant Professor, Department of CSE Daffodil International University, Dhaka who gives us the innovative idea and guides us as long as we have finished our project. We are also grateful to our co-supervisor **Md. Zahid Hasan**, Assistant Professor, Department of CSE Daffodil International University, Dhaka who shares some ways how we implement our project perfectly. Both of them have huge knowledge in this field which helps us to complete some impossible problems that we are facing. Their patience, enough time, guidance, proper care, helpful encouragement, perfect supervision, valuable advice, read out many large files and correct these files where it needs are only reasons to make it possible to complete this project successfully.

Thirdly, we are grateful to honorable **Prof. Dr. Syed Akhter Hossain**, Professor, and Head, Department of CSE, for giving us the beautiful way to judge ourselves and make ourselves fit for any kind of job fight at the current situation. We are also grateful to our all faculty members and staff of the CSE department of Daffodil International University and our all course mates who help us to implement the idea better by the discussion on class time.

Finally, we must acknowledge with humble respect and vow down our heads to our parents who admitted us there and allows us to qualify ourselves with higher studies.

ABSTRACT

The web application has made a revolutionary change in the field of statistics and crime. Our project, “**Design and Implementation of the Digital Census (Adamshumari) perspective on Bangladesh**” is a web-based application to count the total population of Bangladesh daily. We’ll show the current people, total dead people, total newborn babies, and the number of deaths per day which solves 10 years problem of the census. Those who are eighteen plus are eligible to make an account on our website verifying his/her national identity and see the details. The admins will be the special staff of the hospital and union parisad of each district. Whenever any newborn baby will come, the admins add their data. When someone passes away, the admin staff enquire them and mark him/her as late. As we collect information as well as DNA Sequences, the moderator can find out anyone using his/her DNA sequence within a moment. So, we will be able to detect someone just for a click. No crime will occur. Exact criminals will arrest. No harassment will occur. We also find lost people and point out the stranger's dead body easily and quickly.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Bangladesh is an overpopulated country. There are about 18 cores people in Bangladesh and the people are increasing day by day. So, it's very tough for the Bangladesh Bureau of Statistics (BBS) to gather all information going door to door. So, to give a census record the authority needs approximately 10 years. Sometimes the record isn't perfect. It's a time consuming and lengthy process. On the other hand, it's a matter of sorrow that many crimes are occurring every day in our country like rapes, murders, etc. Police can't catch them always though they have DNA sequences on the dead body. They don't know whose DNA are these. Another problem is our country is lost people and dead people's bodies. We can't get back our lost people sometimes after doing many things and can't point out whose dead body is this. Our website will solve all the problems together using DNA sequence privately. Any user can see only the current update of the census and the specific details of each division, district, Upazila, and village. The user can't see any sensitive information of another user. But the admin can create, delete, update any kind of user information providing their identity. There will be no chance to cheat because all admins have to enter his/her identity when he/she fills up the user information form. As we have around fifty percent data on the national board. We don't need these again; we can take data from the authority.

1.2 Motivation

As a Digital Country, Bangladesh should have a live and online system to count the whole people and store their details. But unfortunately, Bangladesh doesn't have any digital system yet. The authority of the Bangladesh Bureau of Statistics (BBS) has been working since 1974 for any kind of census. They have to go door to door for collecting information. For this reason, it takes 10 years to complete a Census.

As a Computer Science and Engineering student, we must think differently, try to solve this problem smartly and do something different for the future of the country. That's why we are going to design and implement an online system that can be Web-based or Android-based that collects all information of any person, counts every person with

newborn babies, and archive the list of dead people respectively. This smart system will update regularly which solves the 10 years problem. So, we can tell it digital or live Census.

For that actually, we decided to do this project for our beloved country. If we will success 5% to save the time of the Bureau of Statistics (BBS) with technology, we will be satisfied with our project.

1.3 Objectives

- To find a better way to store all information about the people of Bangladesh.
- To find a better way to count the people of Bangladesh.
- To find a better way to decrease the time of the Census.
- To find a better way to identify lost or dead stranger people.
- To find a better way to quickly Point out the lost person's details and criminals using DNA sequences.

1.4 Expected Outcome

- No need to go door to door for Census.
- No need to wait 10 years to see the result of the Census, it will update regularly.
- Easily identify which Village or District or Division is overpopulated.
- User can see the total amount of the population of his/her particular area.
- Users can also see the total amount of dead people of his/her particular area.
- It helps to ensure zero tolerance of crime.
- It helps to find lost people easily.
- This system will help to fulfill SUSTAINABLE DEVELOPMENT GOALS (SDG) of Bangladesh.

1.5 Report Layout

Chapter 1: Introduction

In this chapter, we are trying to describe some serious problems in our country those hinder the development of our country and how we can solve them with technology smartly.

Chapter 2: Background

In this chapter, we are trying to tell about some important issues like is there any similar project or not, if exists what are the innovation of our projects etc. We also describe our difficulties in this part.

Chapter 3: Requirement specification

In this chapter, we are trying to explain the necessity and pre-requisite that we utilize in our project.

Chapter 4: Design Specification

In this chapter, we are trying to show our front-end design and back end design of our website and the ways how we implement it.

Chapter 5: Implementation and Testing

In this chapter, we are trying to show our database model and how the database works with the project.

Chapter 6: Conclusion and Future Scope

In this chapter, we are trying to show our final work that we have done already. We also discuss some of the future works that we'll build in the future.

CHAPTER 2

BACKGROUND

2.1 Introduction

The main purpose of a software is depending on its application. For completing the project, we have to complete each and every task appropriately. We have to search bugs and issues of both front-end and back-end so that the project has no errors and will be most user friendly. If we complete all of the task properly, anyone who has interest to read this report can easily understand about our project.

2.2 Related Work

In Bangladesh there is no similar project like that. This project is totally different and unique. But the Bangladesh Bureau of Statistics (BBS) has an official website [1] where they can only publish the statistics report. In the United States of America (USA) there is a website [2] where they only publish their news about statistics. So, it will be the first website where we will show live census report and details. There is no website or application by which the Government can easily find out or trace someone. Our website has also that unique feature.



Figure 2.2.1: BBS Official Website [3]

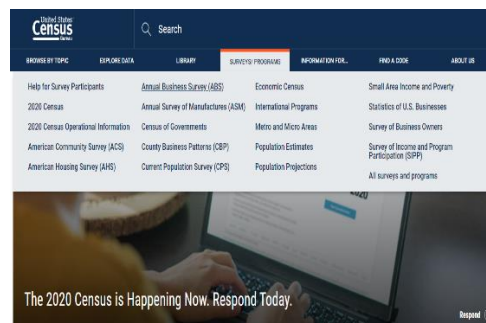


Figure 2.2.2: Census Official US [4]

2.3 Comparative Studies

As there is no related website like that and we have to work with sensitive data like national identity and DNA sequence, we need to give the best security for these purposes. So, there is only one super admin and who can create, update, and delete admin staff. We also ensure the highest security of the password that will be encrypted and none can decrypt it. The admin has to enter his name when he will enter any

information so that we can easily understand if someone provides the wrong information and we can easily trace him/her.

2.4 Scope of problem

We have faced many problems when we started to develop this project. As we complete the project using Python Programming Language [5] and it's one of the most popular frameworks Django [6], we faced some difficulties at first. Secondly, when we designed the front-end using HTML, CSS, JavaScript and Vue.js [7], it was very tough to understand all the features. We faced problems but never stopped our work. That's why finally we have completed our project perfectly what we wanted. There are some related problems what we faced are given below:

- Work with DNA Sequence and know the actual pattern of it.
- National Identity or Birth Identity verification.
- Counter System using JavaScript with advanced tools.
- Creating and managing all the models of databases.
- Ensure all pages as responsive for all mobile and tablet screens.

2.5 Challenges

For the development of the project we have faced some difficulties. Those difficulties are given below:

- User Interface (UI) design.
- Ensuring best password security.
- Reset or change the password using advanced tools and verification.
- Working with multiple unique keys in the same table of the database.
- Handling all staff together at the same interface as Super admin, admins, and users

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business Process Modeling (BPM) [8] is one of the most valuable graphical models for presenting some workflows or any kind of business processes. In we shortly explain this is a model which identifies the potential improvements of any project. We represent Business Process Model through various graphing system like Use Case Model, Entity Diagram, Flow Charts, etc. On another way we can tell it is the main map of both high and low level.

Using our website, the authority of the BBS will be relaxed. They won't need to waste enough time for this statistical data. The user won't need to wait for this report for ten years. Crime will be gone. Criminals will be caught easily. The authority of Defense also will be helpful.

3.2 Requirement Collection and Analysis

We asked some common and unknown people some questions about our project. We wanted to know from them the comments about our project. Though we hide the matter of DNA Sequence for our safety measures. Because it's a sensitive issue. Without the permission of the Government, it's a crime also. They had good comments about our project. Even many of them wished us to fulfill our project. We also analyzed some rules of laws about data privacy. According to section no. 26, everyone must have to provide their real data for the development of our country.

3.3 Use Case Modeling and Description

We use 'Use Case Modeling (UML)' [9] for analyzing the model briefly. It's the derivation of the system. In our project, objects are related to each other. How they work and how users will go through our website for knowing these, we have made a use case model together with a clear description so that anyone can easily understand

the fundamentals of the projects by seeing these models. We have created models among from users and admins that will be shown below:

Note: The images of use case model are made by Microsoft PowerPoint [10]

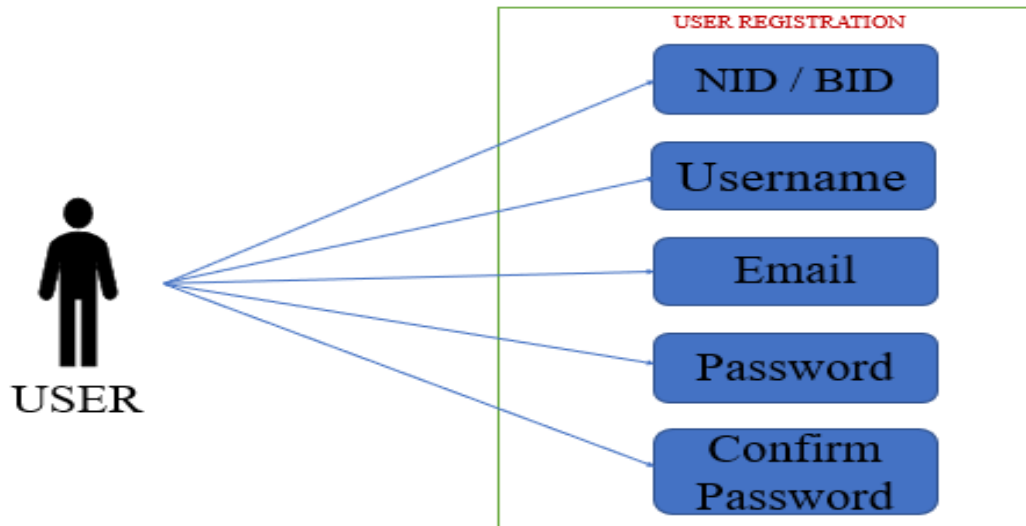


Figure 3.3.1: User Registration

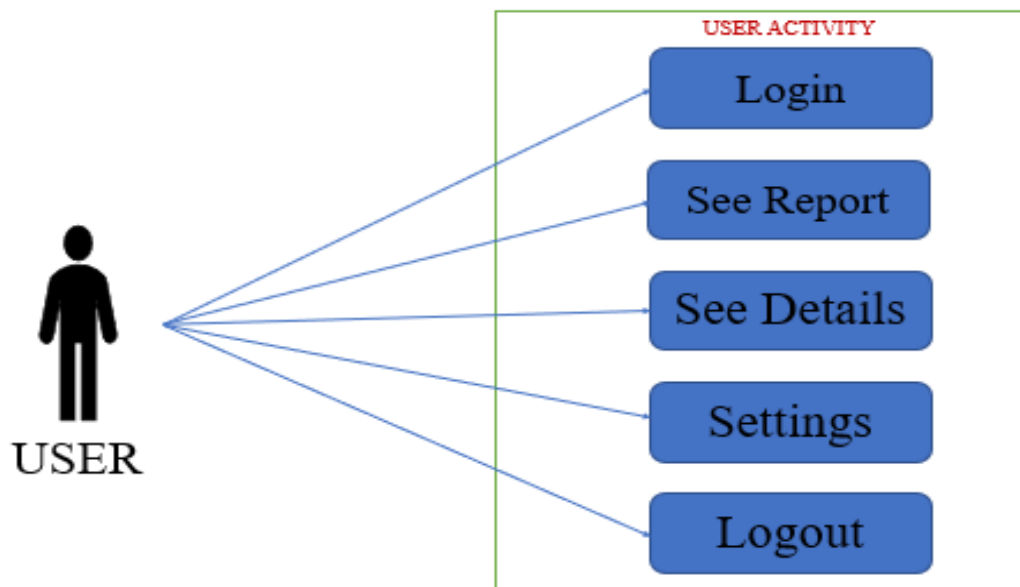


Figure 3.3.2: User Activity

Use Case Description:

Use case 01: Enter into <http://adamshumari.gov.bd>

Operation Actor: Verified Local Users

Precondition: Internet connection

Entry Condition: Go through the URL <http://adamshumari.gov.bd> and login

Event Flow: See the current census reports and details

Exit Condition: Logout from the website

Use case 02: User Sign Up or Registration

Operation Actor: Local Users

Precondition: Enter into <http://adamshumari.gov.bd> having internet connection

Event Flow: Fill up the sign-up form providing NID or BID, username and password

Exit Condition: After completing registration go through the login page.

Use case 03: User Sign in or Login

Precondition: Must be registered to our website.

Event flow: See the census report and details of it.

Exit Condition: Logout from the website if you have done it.

Use Case 04: Census Report

Operation Actor: Verified Local Users

Precondition: No need to login for that.

Entry Condition: Click on the Census Report Menu and see the report.

Event Flow: You can see the total population and total dead people, newborn babies, and current death here.

Exit Condition: Close your tab from the browser.

Use Case 05: Report Details

Operation Actor: Verified Local Users

Precondition: Ensure you are logged in otherwise you can't see details.

Entry Condition: Click on the icon of the report.

Event Flow: Click which report you want to see.

Exit Condition: Logout from the webpage.

Use Case 06: Census Details

Operation Actor: Verified Local Users

Precondition: Ensure you are logged in otherwise you can't see details.

Entry Condition: Select division or district or Upazila or village.

Event Flow: Select which places of details you want to see.

Exit Condition: Logout from the webpage.

Use Case 07: Settings

Operation Actor: Verified Local Users

Precondition: Must be logged in.

Entry Condition: Go to update the profile from my account menu.

Event Flow: Update email and password if you need it.

Exit Condition: Browse or logout from the webpage.

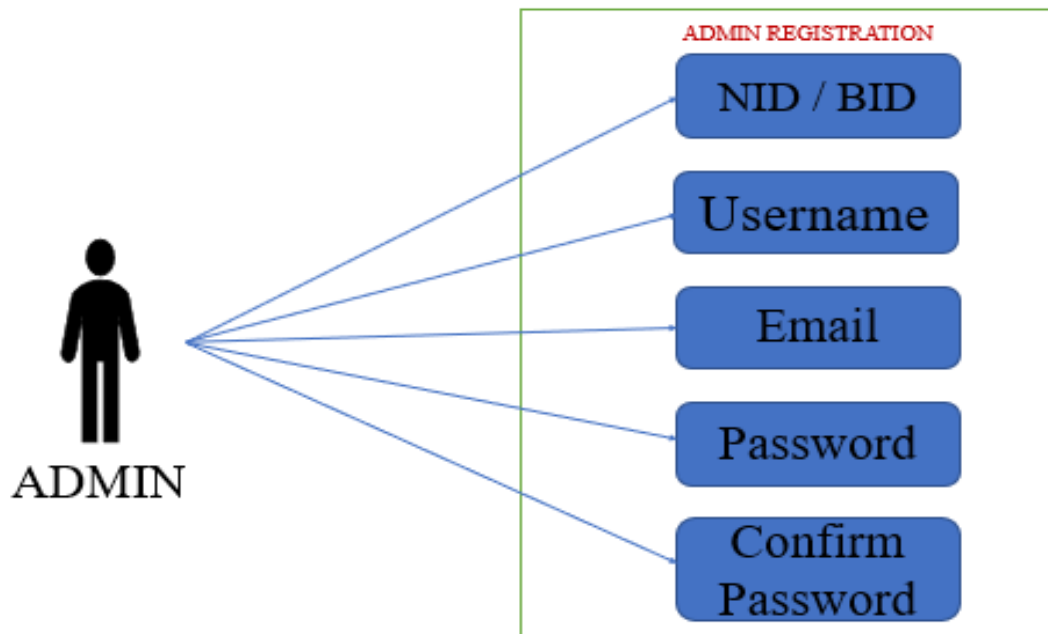


Figure 3.3.3: Staff Admin Registration

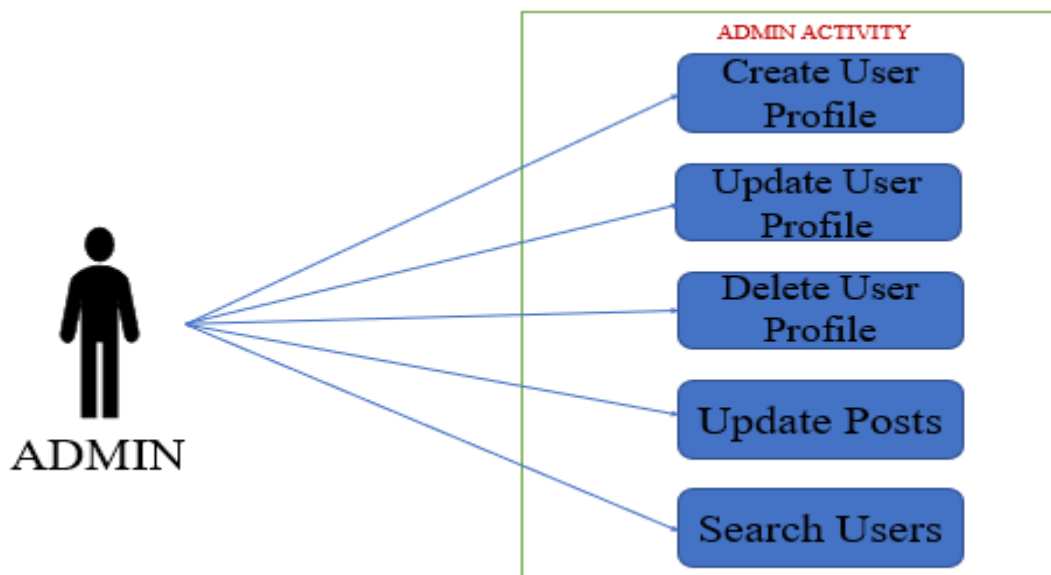


Figure 3.3.4: Staff Admin Activity

Use case 01: Login

Operation Actor: Staff Admin

Precondition: Enter into <http://adamshumari.gov.bd/admin>

Entry Condition: Login with valid credentials

Event Flow: See the backend of the website.

Exit Condition: Logout from the backend if you have done it.

Use case 02: Create User Information

Operation Actor: Verified Admin

Precondition: Must be logged into admin panel

Entry Condition: Provide valid credentials

Event Flow: Fill up the form manually or import the given data from different organization.

Exit Condition: Logout from the panel.

Use case 03: Update User Information

Operation Actor: Verified Admin

Precondition: Must be logged into admin panel

Entry Condition: Provide valid credentials

Event Flow: Update the form after getting confirmation of the main authority and give your identity.

Exit Condition: Logout from the panel.

Use case 04: Delete User Information

Operation Actor: Verified Admin

Precondition: Must be logged in to admin panel

Entry Condition: Provide valid credentials

Event Flow: Delete the form after getting confirmation of the main authority and give your identity.

Exit Condition: Logout from the panel.

Use case 05: Filter or Search User Information

Operation Actor: Verified Admin

Precondition: Must be logged in to admin panel

Entry Condition: Provide valid credentials

Event Flow: Search someone using DNA Sequence or NID or BID after getting confirmation of the main authority and give your identity.

Exit Condition: Logout from the panel.

Use case 06: Update Posts

Operation Actor: Verified Admin

Precondition: Must be logged in to admin panel

Entry Condition: Provide valid credentials

Event Flow: Update the latest posts and statistical reports.

Exit Condition: Logout from the panel.

Use case 07: Setting

Operation Actor: Verified Admin

Precondition: Must be logged in to admin panel

Entry Condition: Go to the admin panel first.

Event Flow: Send a request to the authority to reset your password

Exit Condition: Close the tab from the browser.

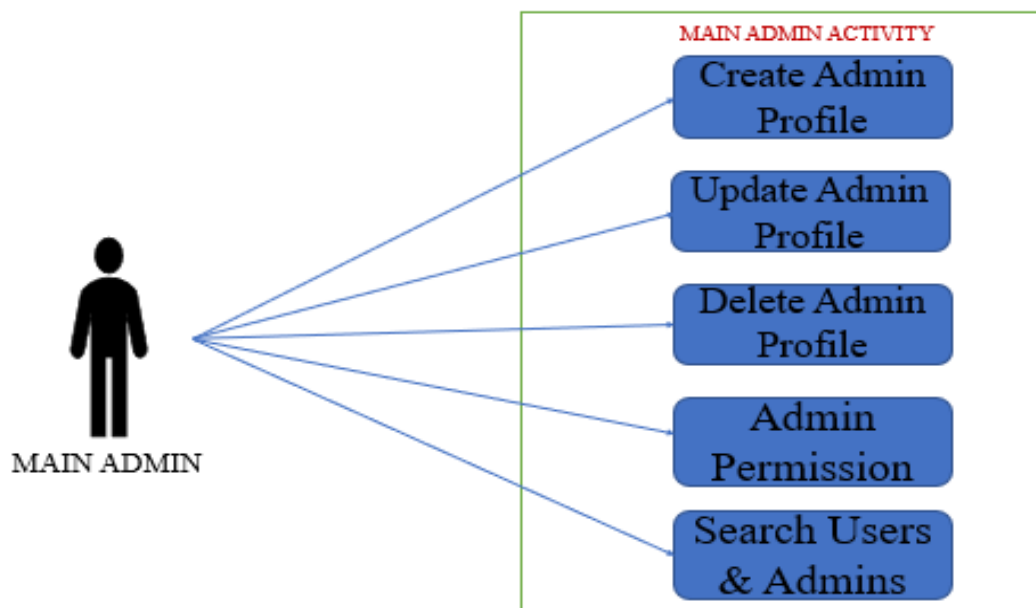


Figure 3.3.5: Main Admin Activity

Use case 01: Login

Operation Actor: Main Admin

Precondition: Enter into <http://adamshumari.gov.bd/admin>

Entry Condition: Login with valid credentials

Event Flow: See all the backend design as well as the admin's information.

Exit Condition: Logout from the panel

Use case 02: Create Admin Information

Operation Actor: Main Admin

Precondition: Must be logged into admin panel

Entry Condition: Provide valid credentials

Event Flow: Create staff admin providing with different permission

Exit Condition: Logout from the panel.

Use case 03: Update Admin Information

Operation Actor: Main Admin

Precondition: Must be logged into admin panel

Entry Condition: Provide valid credentials

Event Flow: Update the form after getting request.

Exit Condition: Logout from the panel.

Use case 04: Delete Admin Information

Operation Actor: Main Admin

Precondition: Must be logged in to admin panel

Entry Condition: Provide valid credentials

Event Flow: Delete admin profile if he/she will no longer in this process

Exit Condition: Logout from the panel.

Use case 05: Filter or Search Admin and User Information

Operation Actor: Main Admin

Precondition: Must be logged in to admin panel

Entry Condition: Provide valid credentials

Event Flow: Search admin profile using NID

Exit Condition: Logout from the panel.

Use case 06: Setting

Operation Actor: Main Admin

Precondition: Must be logged in to admin panel

Entry Condition: No need to login

Event Flow: Reset your information manually.

Exit Condition: Close the tab from the browser.

3.4 Logical Data Model

The Entity Relationship Diagram [11] is a graphical representation of the table of the database. Shortly we can call it ERD or ER diagram. Entity Diagram has three attributes. They are entity, action, and attribute. And ER diagram contains some relationships such as one, zero to more, one to one, one to many, etc.

We are trying to show a user's information contains our database. Here, we have a different entity, action, and attributes. Here, nid_bid and dna_sequence are the primary keys. A user can create only one account and an admin can create, update, and delete many user's information.

Note: The image of the ER Diagram was drowning from Creately. [12]

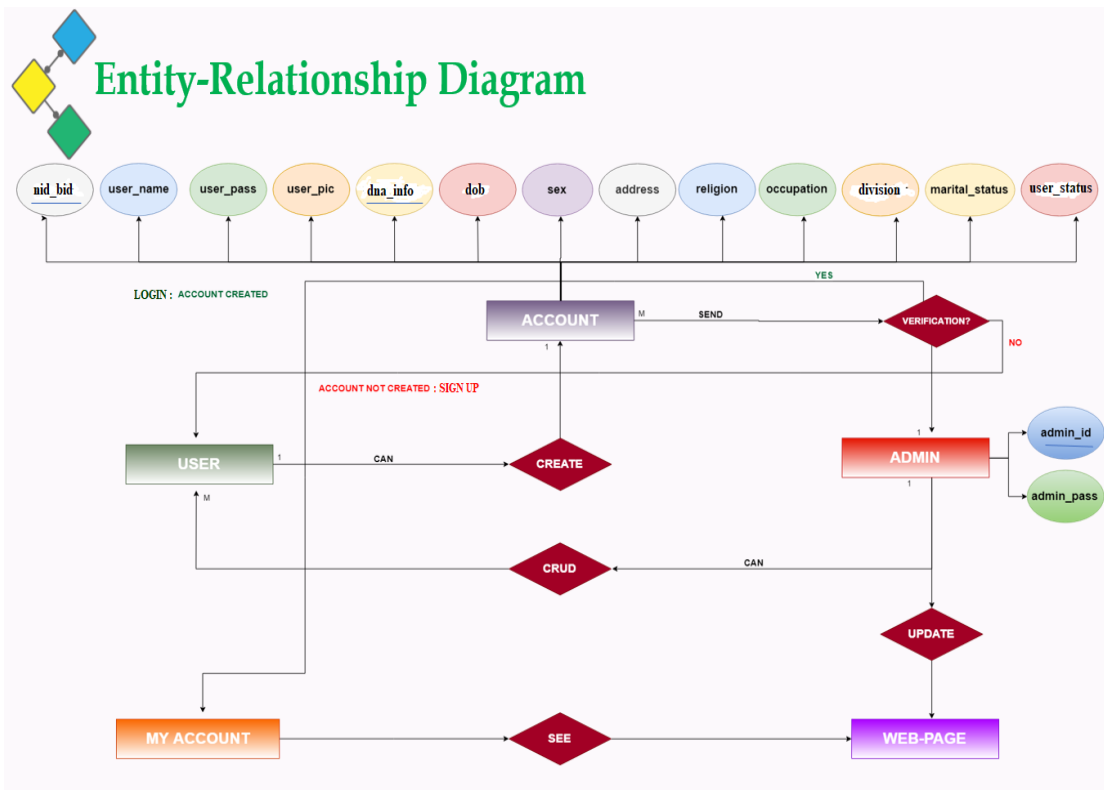


Figure 3.3.6: ER diagram

3.5 Design Requirements

The website is developed for all kind of people of Bangladesh. That's why the front-end work is very user-friendly. Everyone can understand the whole webpage. Admin panel is also well developed for the admin staff. There is no complexity here. We fulfil many requirements for developing the website such as:

Productivity: This is a web-based project. So, everyone can use this website from everywhere if the user will be a citizen of Bangladesh. The users don't need any specific device for access like android or iPhone. They can access using any internet supported devices. They don't need any cost for using the website.

User Friendly: The webpage is developed for the common people of Bangladesh. So, we have built the User Interface (UI) very efficiently for the users. The users can easily understand every feature and browse quickly with great speed. We have the preloaded feature here by which the cache file will be saved and the user can browse so fast.

CHAPTER 4

DESIGN SPECIFICATION

For the development of any project, all developers have to use some tools. They also have to design it for the targeted clients or users. They have to design an attractive webpage for the users. It will be static or dynamic. They have to create a model and a database from which they can fetch and show the data in the webpage. These all are the tasks of the design specification. We are trying to explain the design specification of our project briefly in the next section.

4.1 Methodology

Methodology represents by which we have developed something. For developing the website we have used many tools. All of them are free. The details of the tools are given below:

- **Programming Language:** Python, HTML, CSS, JavaScript
- **Python Framework:** Django
- **JavaScript Framework:** Vue.js
- **JavaScript Graphics:** particles.js
- **Font Scripts:** Font Awesome, Google Font API
- **Database:** PostgreSQL
- **Editor:** Atom, Visual Studio
- **Powershell:** Windows powershell, Cmdr
- **API:** Facebook API, Google API, Twitter API

4.2 Front-end Design

Front-end represents the outlook of the webpage. Especially, it is built using HTML, CSS, and JavaScript. HTML is the body of any kind of the website and CSS & JavaScript are the dress of that body. HTML shows the body of the webpage and CSS & JavaScript make it attractive. Bootstrap is used for making the website responsive.

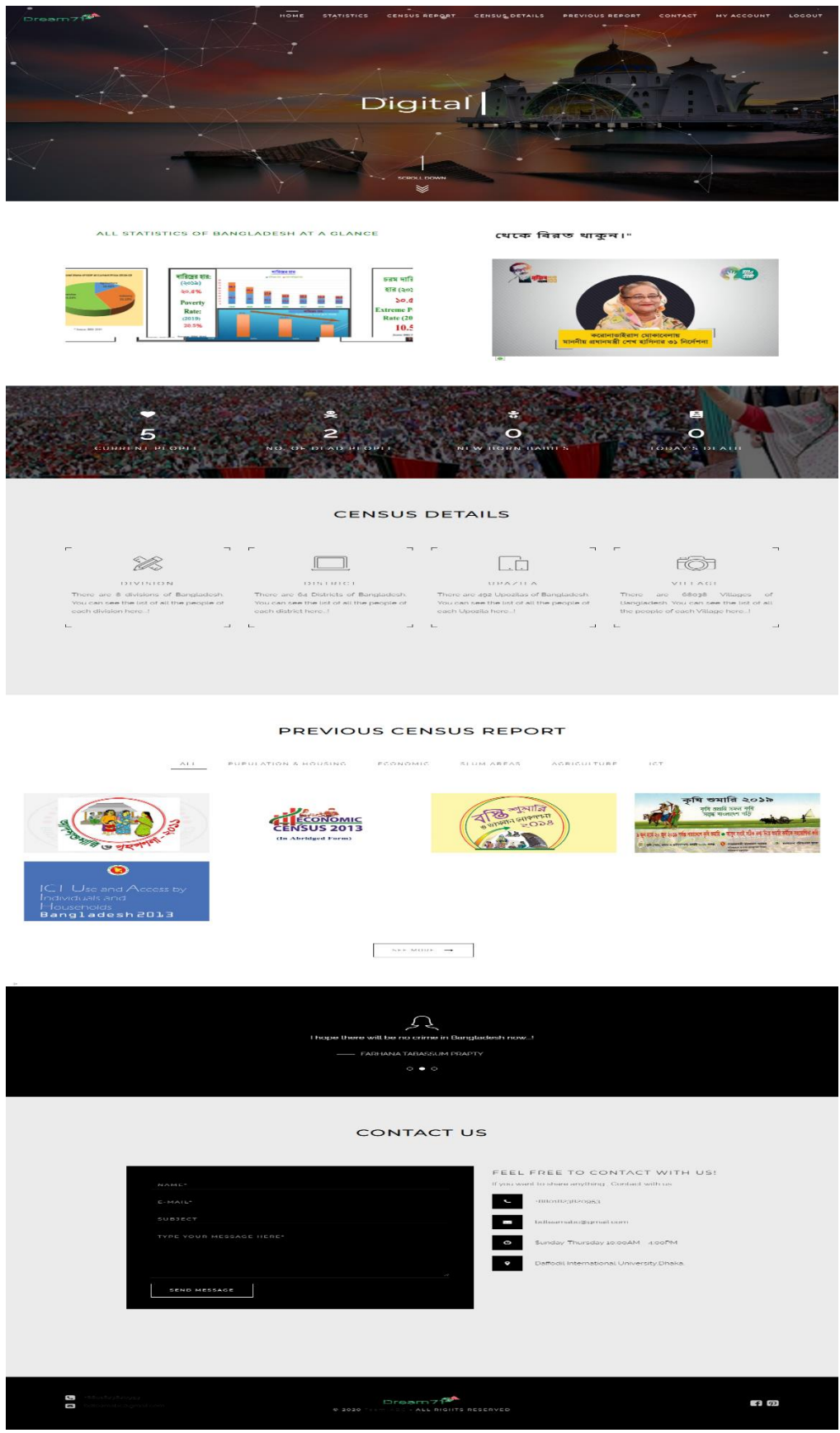


Figure 4.1.1: Home page

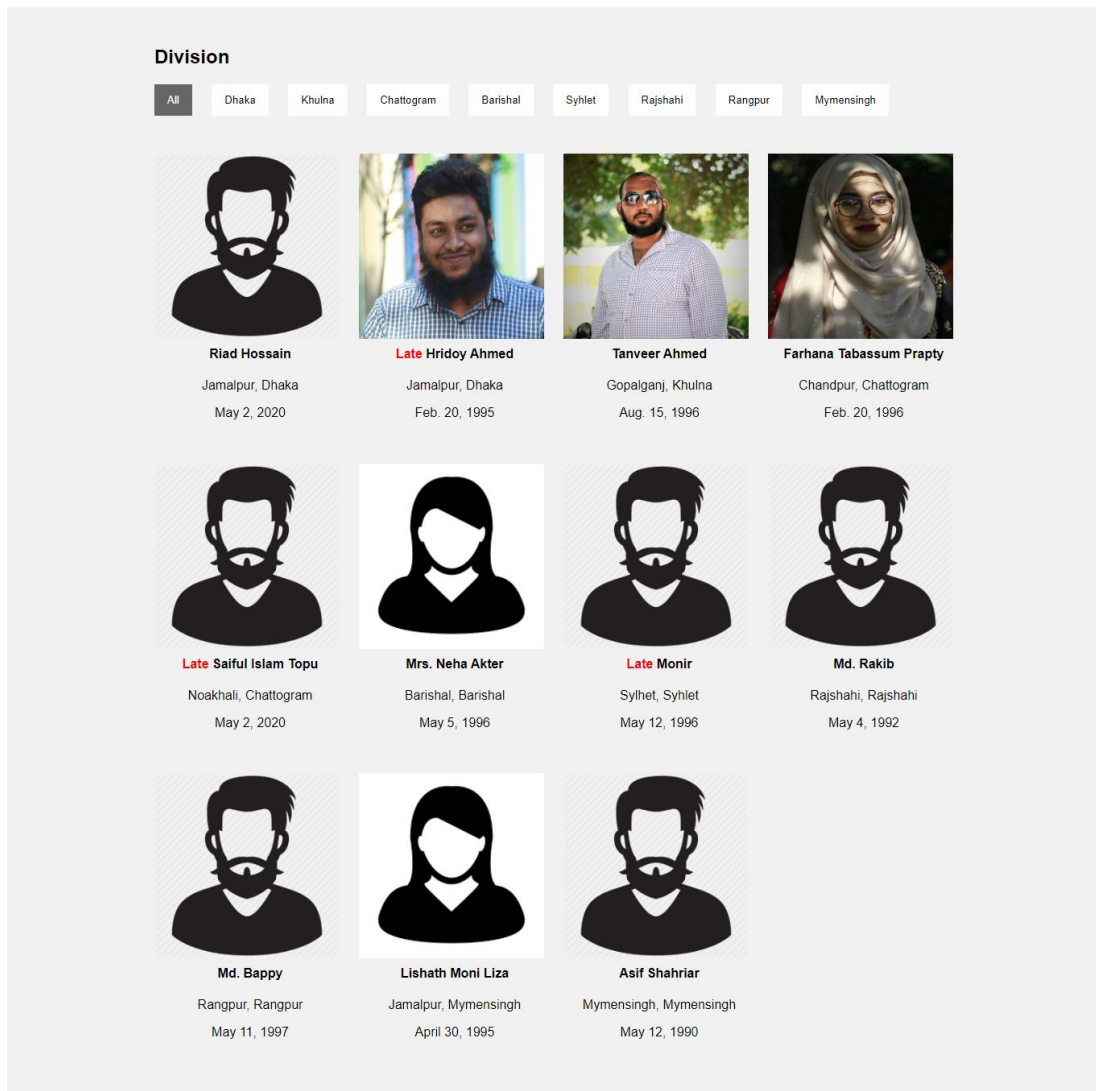


Figure 4.1.2: Census Details of all Division

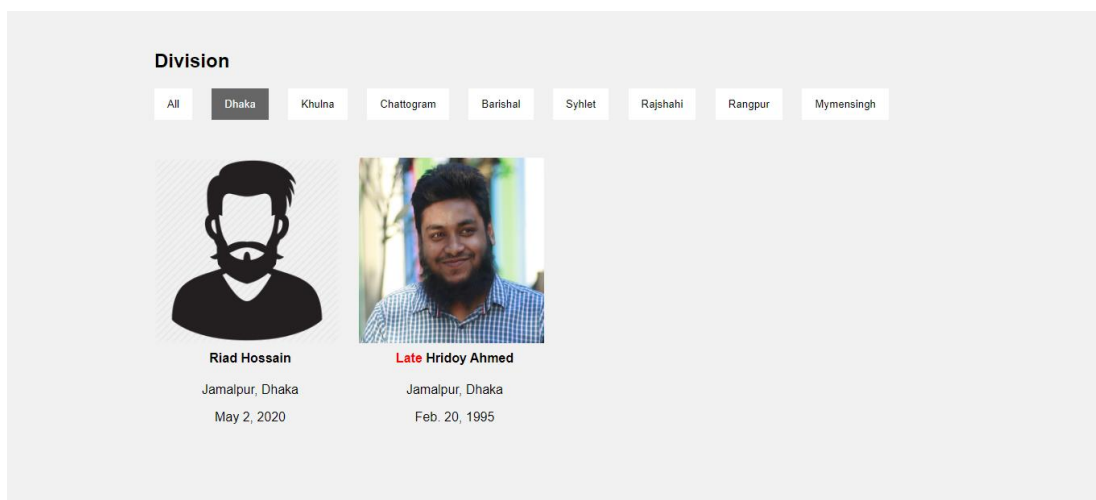


Figure 4.1.3: Census Details of Specific Division

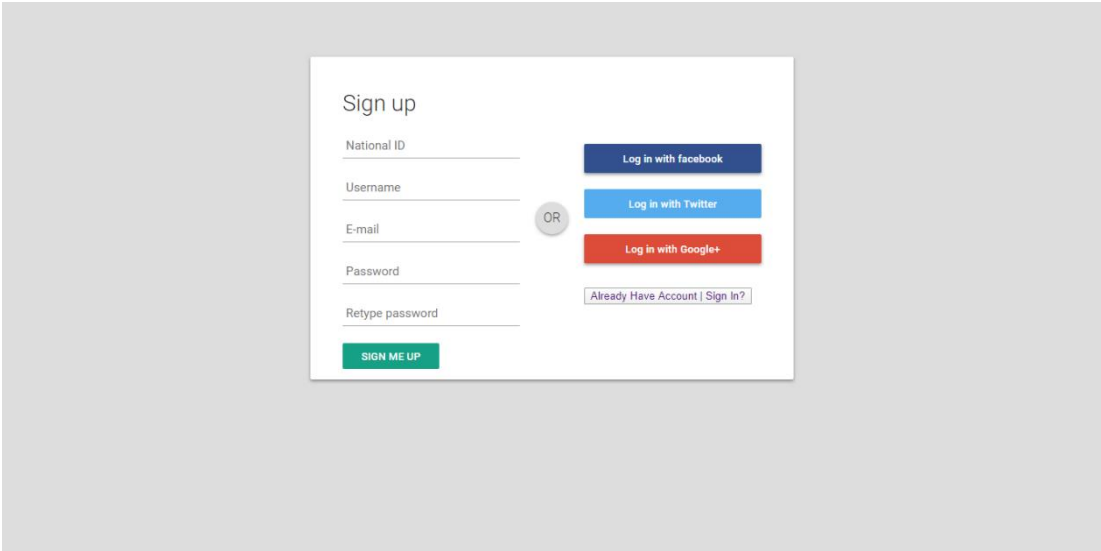


Figure 4.1.4: User Sign up page

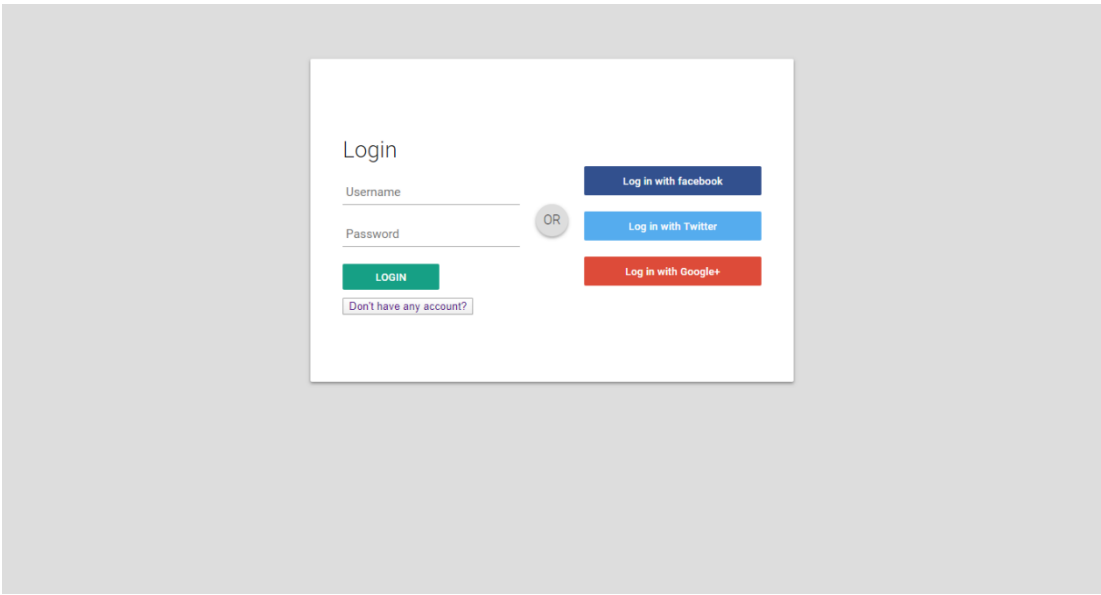


Figure 4.1.5: Login page



Figure 4.1.6: User Login Status

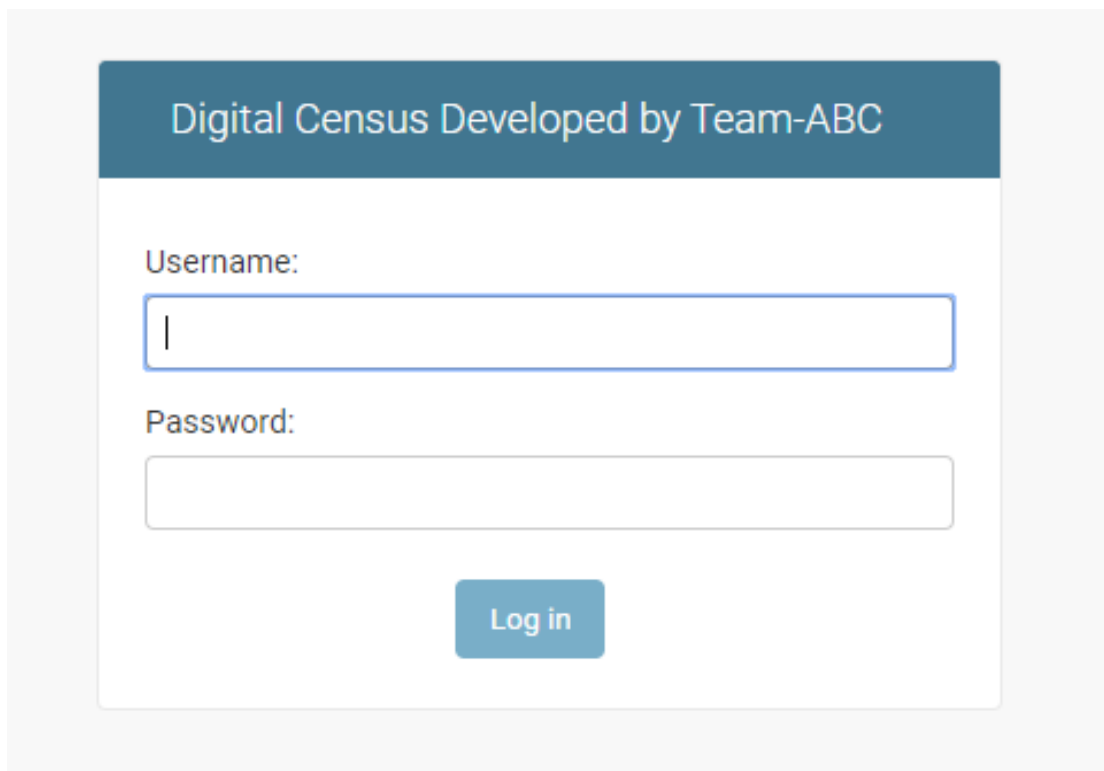


Figure 4.1.7: Admin Login

Site administration

| AUTHENTICATION AND AUTHORIZATION | |
|----------------------------------|--|
| Groups | + Add Change |
| Users | + Add Change |

| CENSUSDB | |
|---------------|--|
| Persons | + Add Change |
| Pictures | + Add Change |
| Previous | + Add Change |
| Snippets | + Add Change |
| Testimonials | + Add Change |
| User profiles | + Add Change |

Recent actions

My actions

- [+ hridoyce Profile](#)
User profile
- [TeamABC Profile](#)
User profile
- [+ hridoyce Profile](#)
User profile
- [Hridoy Ahmed](#)
Testimonial
- [Farhana Tabassum Prapty](#)
Testimonial
- [Tanveer Ahmed](#)
Testimonial
- [Hridoy Ahmed](#)
Testimonial

Figure 4.1.8: Admin Panel.

Digital Census Developed by Team-ABC WELCOME, TEAMABC. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home > Authentication and Authorization > Users > Add user

Add user

First, enter a username and password. Then, you'll be able to edit more user options.

Username:
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:
Your password must contain at least 8 characters.
Your password can't be a commonly used password.

Password confirmation:
Enter the same password as before, for verification.

Save and add another Save and continue editing SAVE

Figure 4.1.9: Add Admin

Change user

HISTORY

Username:
Required: 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password: `algorithm: pbkdf2_sha256 iterations: 180000 salt: xFRMOX***** hash: HvjRT8*****`
Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.

Personal info

First name:

Last name:

Email address:

Permissions

Active
Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

Staff status
Designates whether the user can log into this admin site.

Superuser status
Designates that this user has all permissions without explicitly assigning them.

Groups:

Available groups

Choose all

Chosen groups

Remove all

The groups this user belongs to. A user will get all permissions granted to each of their groups. Hold down "Control", or "Command" on a Mac, to select more than one.

User permissions:

Available user permissions

- admin | log entry | Can add log entry
- admin | log entry | Can change log entry
- admin | log entry | Can delete log entry
- admin | log entry | Can view log entry
- auth | group | Can add group
- auth | group | Can change group
- auth | group | Can delete group
- auth | group | Can view group
- auth | permission | Can add permission
- auth | permission | Can change permission
- auth | permission | Can delete permission
- auth | permission | Can view permission
- auth | user | Can add user

Choose all

Chosen user permissions

Remove all

Specific permissions for this user. Hold down "Control", or "Command" on a Mac, to select more than one.

Important dates

Last login: Date: Today
Time: Now
Note: You are 6 hours ahead of server time.

Date joined: Date: Today
Time: Now
Note: You are 6 hours ahead of server time.

Figure 4.1.10: Super Admin Details

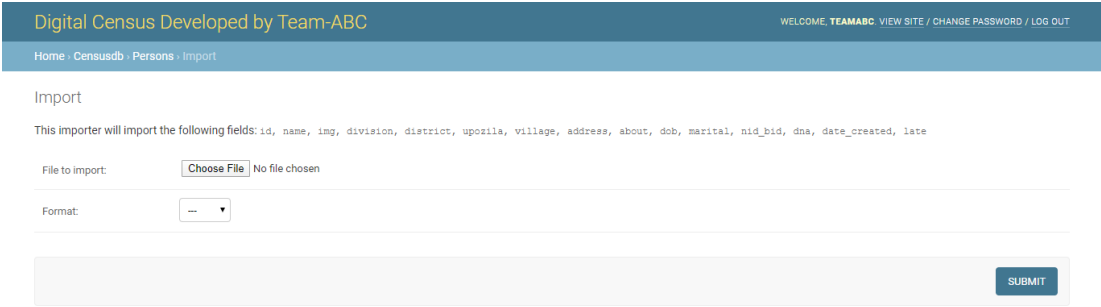


Figure 4.1.13: Import User Information

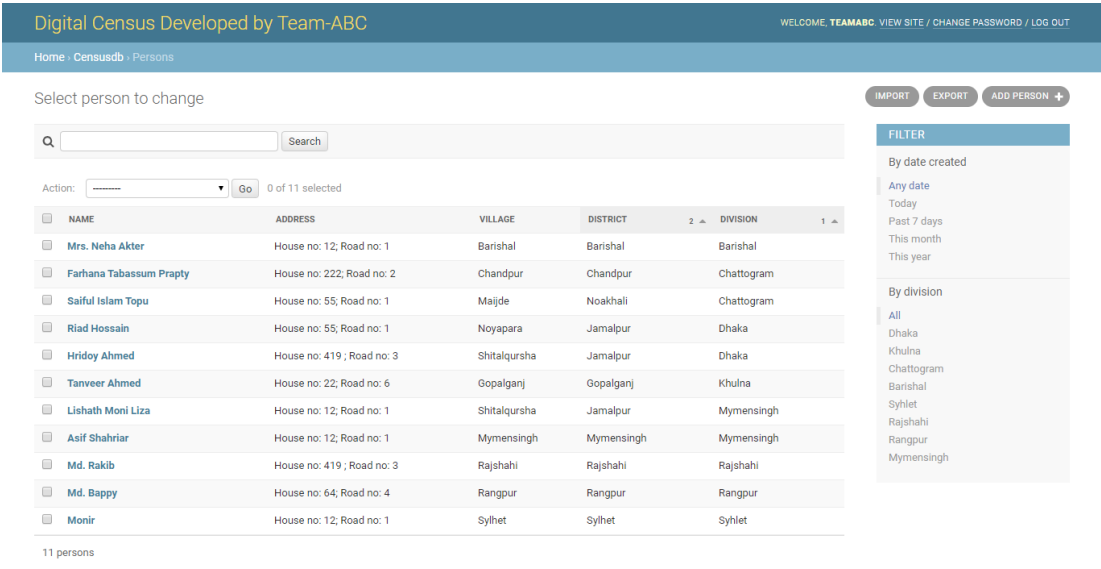


Figure 4.1.14: User List

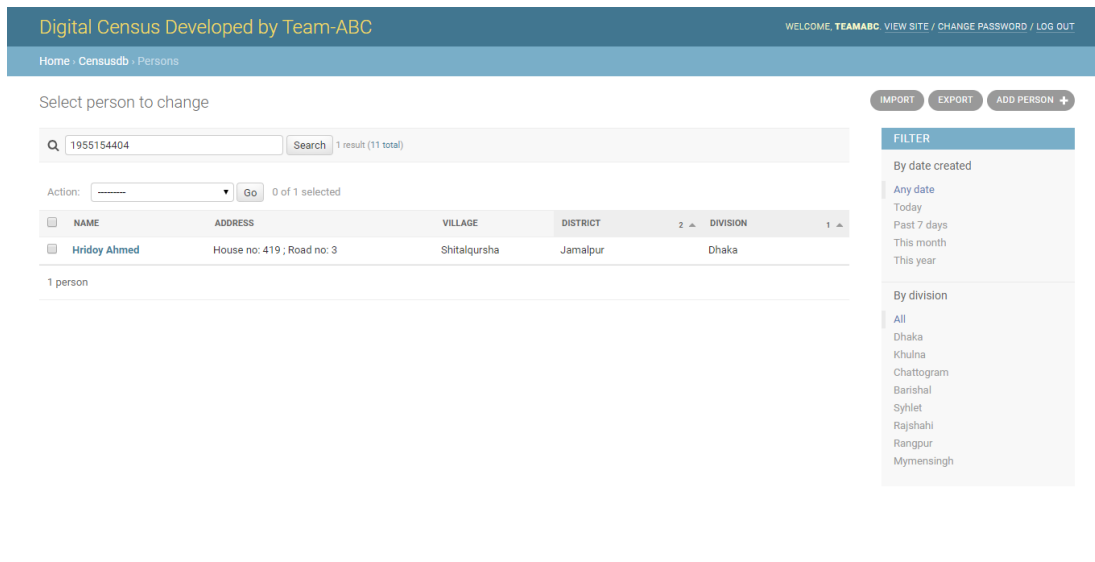


Figure 4.1.15: Search User Using National Identity

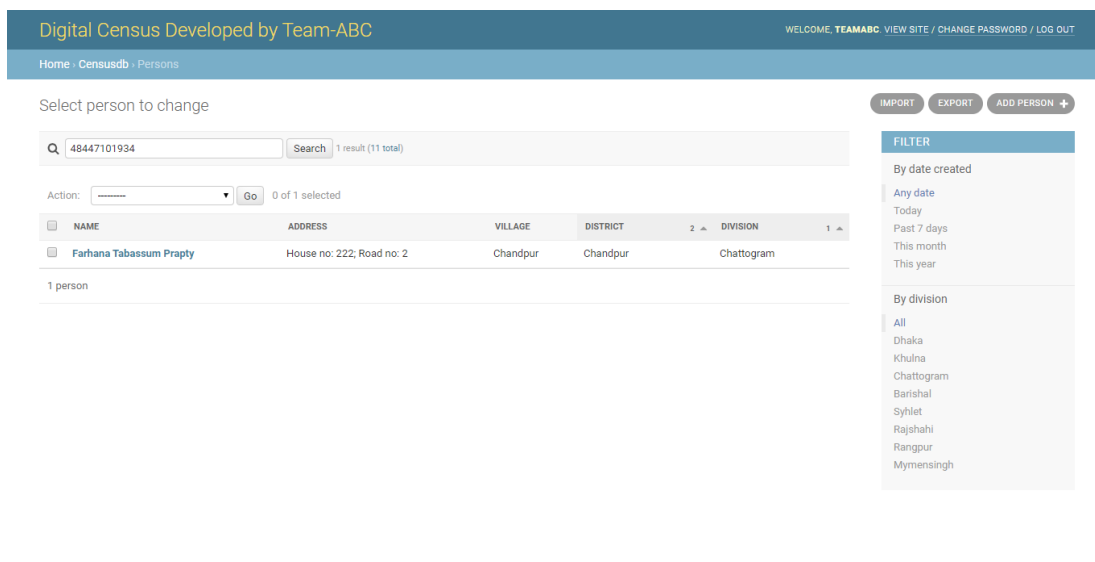


Figure 4.1.16: Search User Using DNA Sequence

4.2 Back-end Design

Making the website dynamic, we have to use back-end. We have to make admin panel who will main users. We also have to use database for fetching data from it and passing it to the front-end. In Python & Django, we have to create models for fetching data. After fetching, we can use the data at our webpage. We use PostgreSQL as database. We use pgAdmin for controlling database. PostgreSQL is one of the best online database. It is better than MongoDB or sqllite. That's why we choosed it. We use atom

editor for the coding part. It has many advanced tools. It has also many libraries that can make our work better than the other editor.

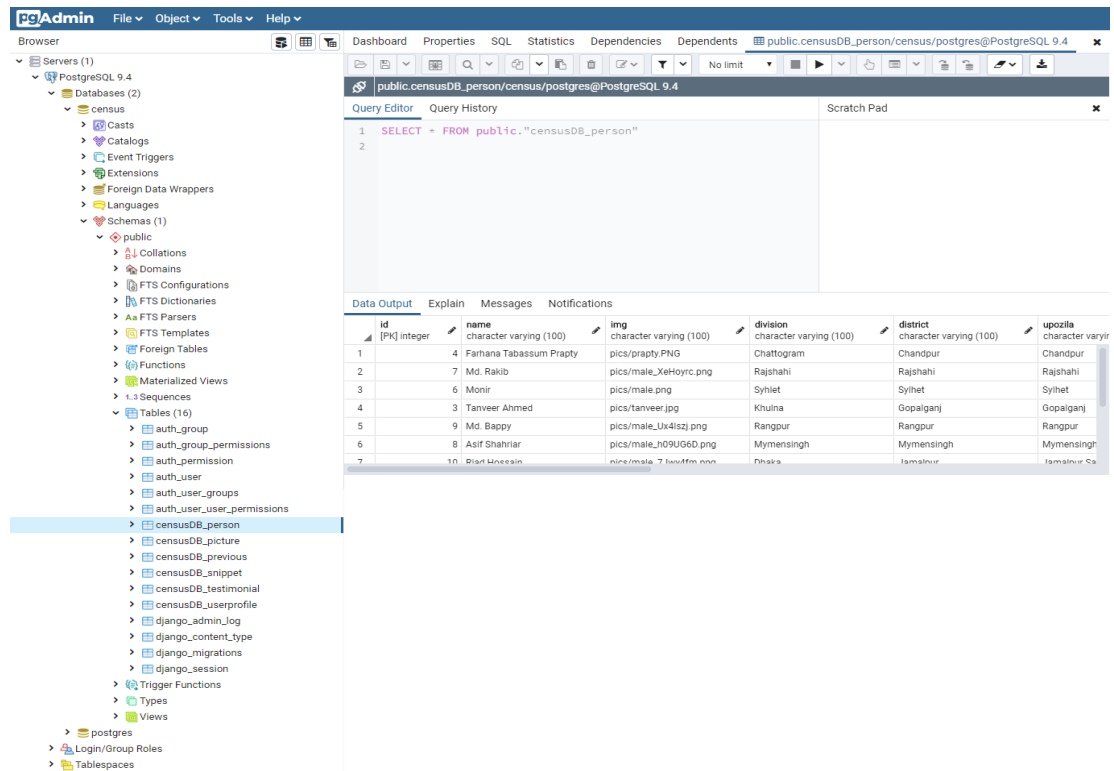


Figure 4.2.1: Database

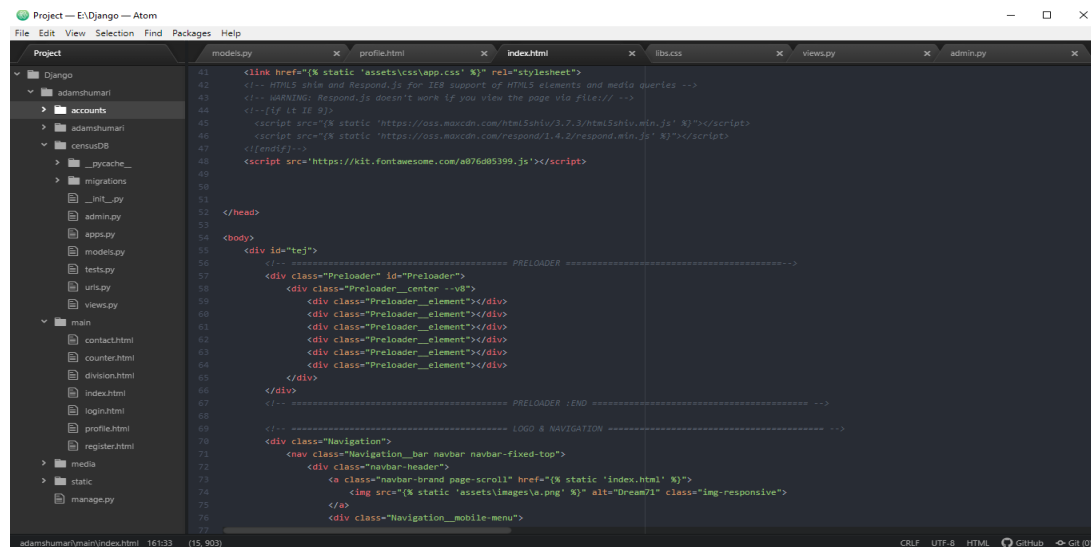


Figure 4.2.2: Back-end work.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

We have used PostgreSQL [13] for online database. For controlling PostgreSQL, we have also used pgAdmin [14]. We have different models for different database. User and admin information will be saved in different table of database. We have fetched the necessary information or data from the database and made our front-end fully dynamic and real-time.

5.2 Implementation of Front-end Design

Login page for admin: For logged in our website the admin must have the national identity and the permission of the super admin. Without the permission of the super admin, he/she is also a normal user. When the superuser permitted him as an admin, he can go to the admin panel and work with specific permission.

5.3 Implementation of Interactions

To make our website more attractive, we have developed the website as responsive that means the outlook of website will depend on the device. If the device will be a mobile, the website will turn into the outlook of the mobile. If the device will be a tablet, the website will turn into the outlook of the tablet. And if the device is a computer, the website will turn into the outlook of the computer. So, it'll look attractive at any kind of device.

5.4 Testing Implementation

Testing a website is one of the most important things after the development of the website. If the website contains any errors or bugs, we can fix them after the testing process. It makes the website more realistic and user friendly. As we don't publish the website officially yet, we don't know about the satisfaction of the real-time users. But we have checked the website again and again so that all the features will work perfectly. We check the registration page, the login page, resetting the password process again and again. Finally, we don't have found any errors right now. Now, The

webpage is very simple. There is no complexity here. The website meets all the requirements as we thought. Some checking activities are given below:

Table 5.4.1: Test case assessment

| Sl. | Test Case | Input | Expected Outcome | Obtained Outcome | Pass/ Fail | Testing Date |
|------------|----------------------------------|--|--------------------------------------|--------------------------------------|-------------------|---------------------|
| 1 | Login | Login for Super admin | Successfully Logged in | Successfully Logged in | Pass | 20-12-2019 |
| 2 | Login | Login for Staff admins | Successfully Logged in | Successfully Logged in | Pass | 03-01-2020 |
| 3 | Login | Login for Users | Successfully Logged in | Successfully Logged in | Pass | 13-01-2019 |
| 4 | Create, update, delete User data | Create, update, delete the information in the database | Successfully Added, Updated, Deleted | Successfully Added, Updated, Deleted | Pass | 10-02-2020 |
| 5 | Add, edit, delete Post | Add, edit, delete Post for front-end | Successfully Added, Updated, Deleted | Successfully Added, Updated, Deleted | Pass | 20-03-2019 |
| 6 | Census report and details | Show all the reports and details real-time | Successfully showed | Successfully showed | Pass | 11-04-2020 |
| 7 | Reset password | Reset user and admin password | Successfully Reset | Successfully Reset | Pass | 15-04-2020 |

| | | | | | | |
|---|-----------------------|-----------------------|-------------------------|-------------------------|------|------------|
| 8 | Logout from all panel | User and admin logout | Successfully Logged out | Successfully Logged out | pass | 18-04-2020 |
|---|-----------------------|-----------------------|-------------------------|-------------------------|------|------------|

5.5 Test Results and Reports

After checking all of the features of the website, we are sure about the success which we wanted. The website is working fine. There's no error issue both in front-end and back-end. But every project has a worst case. It has also a case. And that is the way how to add the information of road childs. They are not born in the hospital sometimes. If we have any option to add their information, it will be good for us. Without the worst case the website meets all the goals of the project. The website gives 100% accuracy of all the features. There are some kinds of testing:

- Time Complexity
- Fast
- Importance
- Real-time report
- Real-time details
- Ease of access
- Regression
- Security
- Safety
- Accuracy
- Filter accuracy
- Ease of use

CHAPTER 6

CONCLUSION AND DEVELOPMENT

6.1 Discourse and Conclusion

There is a popular quote like ‘Something is better than nothing’. We proved it actually. Once we thought it was impossible for us to remove these problems from our country. But advanced technology and our innovative thought gives us an opportunity. After the implementation of our project in our motherland everyone can see current statistics about population. Criminals can’t commit any crime as they will be traced and identified within a moment. Lost people are found out quickly and get back the relatives. There will be no dead body which has no identity. Every user can see his/her current population and late persons. Yes, we have solved the all problems together. And it’s the power of innovative thought and it’s the power of advanced technology. Our hard works, our dedication, our thoughts have values to solve any kind of problem and we have proven it. We think our project the **Design and Implementation of the Digital Census (Adamshumari) perspective of Bangladesh** not only gives us success of a specific destination but also opens our eyes to think about further success. And for this reason, we are very grateful to Almighty Allah for helping us to complete the project appropriately.

6.2 Scope for Further Developments

Though we have not much times to research briefly and then implement some advanced tools, we can’t make the system avail for all devices. On the other hand, we can’t get the national data from the Government yet. So, we can’t add the original data here. We just add fake data for testing our development work. At later, In Sha Allah we will add many cool features like:

- We’ll create an Android application for managing Android platform.
- We’ll develop an IOS application for iPhone Users.
- We’ll enhance beauty of our front-end.
- We’ll make our website more user friendly.
- We’ll add more security tools.
- We’ll try to make something unique using these data for decreasing crime totally.

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Submission date: 12-May-2020 03:52PM (UTC+0600)

Submission ID: **1322441659**

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