

# **“E-Census Information Management System”**

**BY**

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

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## **APPROVAL**

This Report titled is “**E-Census Information Management System,**” submitted by Arjun Baidya 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 **Bachelor of Science in Computer Science and Engineering (BSc)** and approved as to its style and contents. The presentation has been held on 06 August 2019.

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## DECLARATION

I hereby declare that, this project has been done by Arjun Baidya under the supervision of **Ms. Fatema Tuj Johora, Lecturer and Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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## ACKNOWLEDGEMENT

First, we express heartiest thanks and gratefulness to the almighty for His divine blessing makes me possible to complete the final year project successfully.

We really grateful and wish my profound our indebtedness to **Ms. Fatema Tuj Johora, Lecturer, Department of CSE, Daffodil International University**, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “*E-Census Information Management System*” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice , reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Dr. S. M. Aminul Haque, Associate Professor and Associate Head, Department of CSE Daffodil International University**, Permanent Campus and **Dr. Syed Akhter Hossain, Professor and Head of the Department of CSE**, for his kind help to finish our project and also to another faculty member and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

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

## ABSTRACT

The report presents the development of an online census application as a service. In this project, we developed a website which can help the general people to go under the govt. based census system as well. An E-Census Information Management System is the online census web application. It will help the people to find them get registered in the govt. web portal of BANBEIS. On the other hand they can easily track down through it. This application has been developed by content management system (CMS) using framework and written in PHP, MySQL, Ajax, JavaScript, Bootstrap4 ,CSS3 and html function. The application has been designed as a web based program to those users', who are the citizen of the People's Republic of Bangladesh.

**Keywords:** PHP, MySQL, XAMPP, Html, CSS3, Java Script, JQuery, Bootstrap4

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# CHAPTER 1

## Introduction

### 1.1 Introduction:

An E-Census Information Management System is an incredibly needed partner in nursing an IT emerging nations such as Bangladesh would like a weeping project. Data technology can be a wonderful finding of the technological growth of the donation day. Of course, this often influences even our daily operations. Half of information technology is even a lot of crucial after we come back to some specific kinds of job and it comes useful. It also plays an important role for our paper. We have a tendency in our journal to be information technology victimization methods of gathering census understanding The word Census means that each person and each set of individual characters are severely enumerated as individually recorded by the features. Since the beginning, the census organization has been experimenting with fresh IT technologies. Technology is required mainly for the capture / processing of information due to large quantity and speedier tabulation and harshness of the outcomes of the census. It's a small small nation, growing up in the IT industries with a lot of hope and potential. Now - a-days, the IT scheme gives each public privileges. We have an oversized population, however, we have a tendency not to still have a web-based census system. This creates a hamper to the statistics office to calculate the accurate population range and makes it easier for those who want this exactly. The vision fails as a consequence. This will enhance the work's potency and save an outstanding time. They obtain facilitating the listing of census households from the income department. The census knowledge acquired is often used to analyze, sell company, and prepare the five-year set-up. We tend to calculate the path and design a system known as the E-Census Data Management System to likewise eradicate the issue.

## **1.2 Motivation:**

Most of our country's people nowadays don't get distinct services rendered by the govt. Most individuals are unfamiliar with their rights. Firstly, govt. A lot of expenditures to calculate the precise population quantity. So it's a time consuming and expensive method that often demonstrates the worst outcome. For instance, if I ask someone what is the precise amount of people in Bangladesh right now, there should be no correct response. Because there are many issues in the Traditional census scheme to count the real number of individuals. We intended to digitalize the system of census here.

## **1.3 Objectives:**

This project works mainly on people who are Bangladesh's regular citizen with their Birth ID as well as National ID. We have designed a website where in every 10 years, people from different areas of our country do not have to survey everything. That is very expensive for the government. Finding the exact number of the population each time it creates a problem. Thus, in various respects, the different government services are still missing. Nowadays, the rich men neglect most of the people, whereas everyone is equal to the eye of law. So we created a website where people, under the supervision of an admin, can get their own service.

### **1.4 Expected Outcome:**

1. Calculate the number of overall population
2. The ratio of birth and death rate.
3. Retrieving the actual number of voters.
4. The ratio of male and female
5. The number of employed in every category and unemployed and yet student.
6. The number of homeless people
7. The number of senior citizens
8. The ratio of Hindu, Buddha, Christians and Muslims
9. Total number of khana
10. Total number of case

## CHAPTER 2

### Background

#### 2.1 Introduction:

Bangladesh is one of the world's most densely populated nations. A vast amount of individuals add to our overall population every year. This country's estimated population is more than 17 cores and still growing. In every ten years, the state is surveying its citizen and only five surveys have been carried out since 1971. But every time the precise amount of residents is not calculated. So there are still a lot of individuals who have not received the appropriate services and privileges that make them the govt. We have built a web-based census scheme from this concept in which individuals can provide their data on their own and it is stored in the domestic data desk. () Today, most of our country's individuals do not receive distinct services rendered by the govt. Most individuals are unfamiliar with their rights. Firstly, govt. A lot of expenditures to calculate the precise demographic quantity. We intended a website where in every 10 years, individuals from distinct areas of our nation do not have to survey everything. That's very expensive for the state. Finding the precise amount of population each time it creates an issue. Thus the various public departments are still lacking in various ways. The wealthy men neglect most of the individuals, while everyone is equal to the eye of legislation. So we intended a website where, under the oversight of an admin, individuals can get their own service.

#### 2.2 Related works:

Through these following steps, the Census information assortment will be commanded in India. Identifies initially homes like, residential areas and locations that are sometimes used by nomads for living. To urge internet understanding of the 2001 census given by the Registrar General's and Indian Census Commissioner's office. Access to city, population, language, tongue and reference tables for census related information. Registered consumers are going to login to urge internet census understanding. Together with the Population Census, the National Statistics Center tabulates census and survey results on elementary state issues as well as preserving the reliability of statistics and up statistics technology by conducting activity-related analyzes.

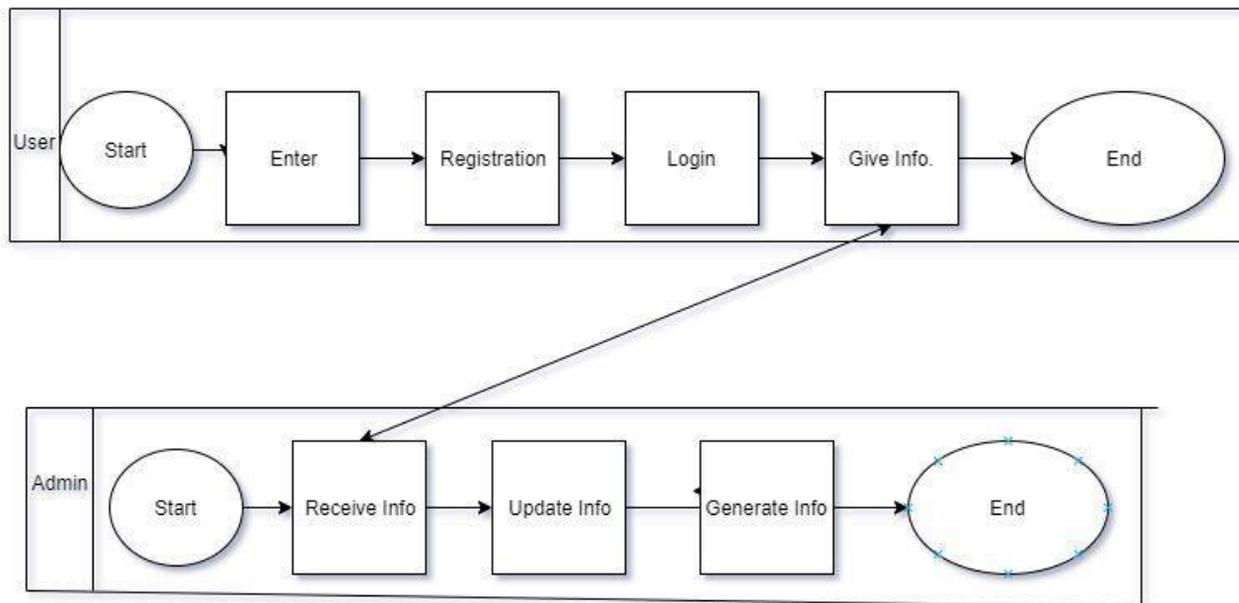
The 2011 Canada Census could be an elaborate Canadian population enumeration on May 10, 2011. The Canadian government's office, Statistics Canada, performs a nationwide census every five years. This body report of the Population Census 2010 offers a detailed record of the activities of the Census 2010. It describes the primary milestones along with setting up the look committee, analyzing the Census strategy and information stuff, developing and preparing sample enumeration and IT application system execution. The report also jointly documents the activities of the collection, process and body as resources used to conduct the 2010 Census.

Under the census programmed execution year in 2020, the Department of Statistics Malaya (DOSM) may implement a internet population census called E-Census. The Malaya census, or officially the Population and Housing Census, could be a descriptive count on the Census Day in Malaya on everybody's World Health Organization and their homes. Starting in 2010, the decennial Malaysian census was performed six times. It is performed every ten years, beginning in 1960. With this information in hand, they go to census homes and gather understanding. Collected information would be used for population assessment in various ways such as discovering population magnitude relationships, job reports, and equipment on the market to folks etc. Currently using this method we will be able to gather understanding merely and calculate any difference or magnitude relationship merely. Again, it is a severe problem of the Statistics African nation's leadership to constantly review and enhance business processes related to population enterprise and housing censuses. There will be many completely distinct approaches to this revision. Also the primary focus is on the creation of activity planning or execution. Method flows could be structured and reconfigured by management. Information about the information stream or the process knowledge management is also changed The setup of the role around procedures is another focus area as well. All such innovations will certainly have a impact on the performance level and also on the operations ' cost-effectiveness. It is the objective of census assessment to verify that in this respect rational decision-making is adhered to. The element: analysis and methodology was created to specialize in relevant census analysis issues as part of the continuous Population Census framework These ups are intended to determine a comprehensive and sound strategic basis for operational development for this part which is in line with the strategic imperatives determined and communicated by the structure of the Population Census and also the wider organization.

## CHAPTER 3

### Requirement Specification

#### 3.1 Business Process Model:



**Fig: Business Process Model**

## **3.2 System Requirements:**

This is an application for internet census service. The necessity makes and creates this request. The need for a scheme defined by two classes: preconditions for software and hardware. We have all the information in this scheme. We also make sure that with the PC hardware this structure is great.

### **3.2.1 User Requirement:**

Client prerequisite to deliver a precise necessity particular for an undertaking is mentioned through investigation and objective fact of tasks and exercises of a whole system with a unique reference to the accompanying.

- **Overview of the website.**

- **Search for a user.**

- **Search for District.**

- Search for Thana/Upazila.

- **Search for Dine.**

- **Information about other services by govt.**

- **How to create online ID.**

### **3.2.2 Requirement Components:**

To carry out the project we need hardware and software those are given below:

### 3.2.2.1 Hardware Requirement:

If we want to run this project, we need minimum one pc and internet connection.

Processor	Intel Pentium/AMD processor (500 MHZ)
Motherboard	Any
Ram	512 or more
Lane	Any
AGP Card	Any
Hard Disk	60GB
Floppy Disk (not mandatory)	1.44 MB
Casing	ATX
Monitor	Any Colour Monitor
Keyboard	Any
Mouse	Any
CD ROM	52X

**Table 1: Hardware Requirement**

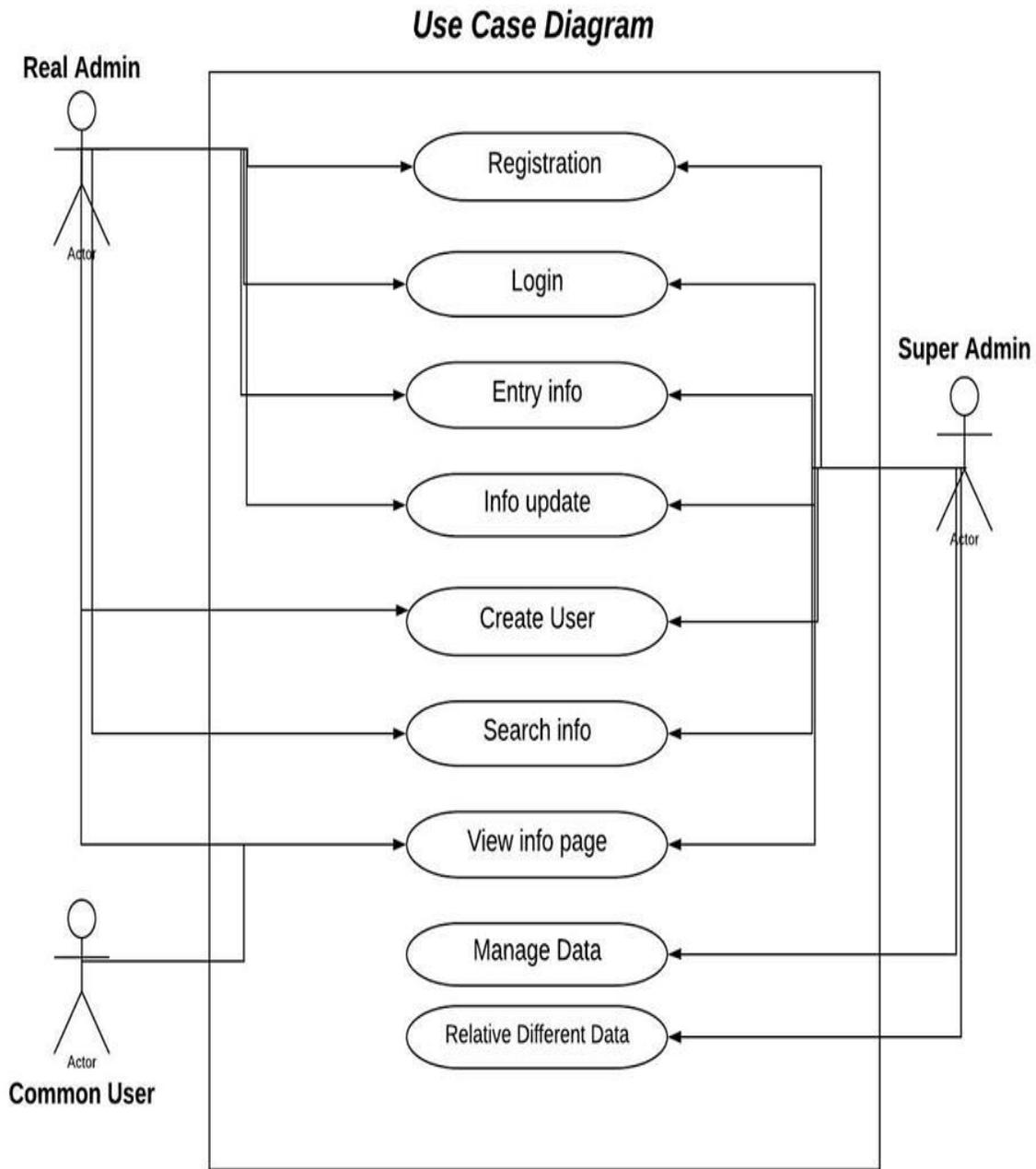
### 3.2.2.2 Software Requirement:

Different type of software need to developing and maintaining projected website. Details Given below:

Software	Usage
Any version of the Windows OS	To begin a computer and coordinate all parts of the hardware, application and custom software.
Xamp	To provide the service for the project
Brackets	For server side scripting
Phpmyadmin	For Database Server
Antivirus software if working on windows operating system	To protect Data from Virus

**Table 2: Software Requirement**

### 3.3 Use case Diagram:



**Fig: Use Case Diagram**

### 3.3.1 Use Case Description:

Use Case Id:	1
Use Case Name:	Enter
Created By:	Arjun
Date Of Creation:	15-7-2019
Description:	This utilization case will enable the client to Enter the framework. The client can without much of a stretch enter the framework and See whatever needs to see.
Primary Actor:	User
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the home page

**Table 3: Use Case 1**

Use Case Id:	2
Use Case Name:	Edit Profile
Created By:	baidya
Date Of Creation:	15-7-2019
Description:	User can easily edit his profile and pend a reques
Primary Actor:	User
Secondary Actor:	None
Precondition:	None
Post condition:	Finding the search result

**Table 4: Use case 2**

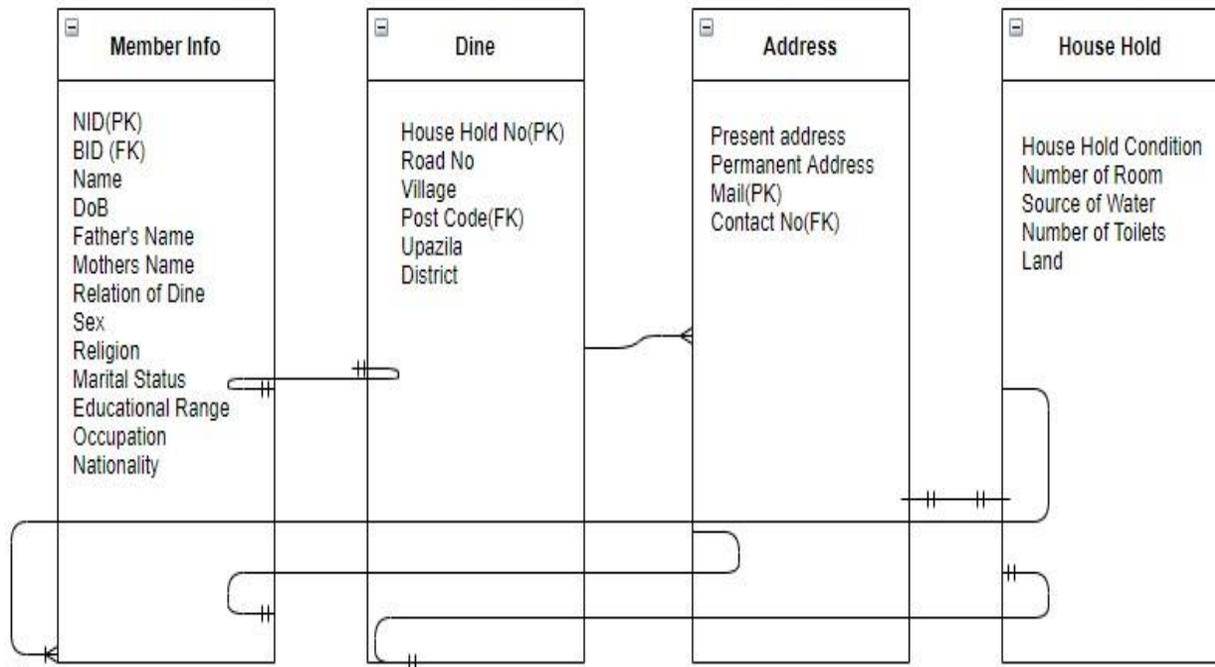
Use Case Id:	3
Use Case Name:	Make an ID
Created By:	Sumon Ahmed
Date Of Creation:	10-7-2019
Description:	This made an ID from system
Primary Actor:	User
Secondary Actor:	System
Precondition:	None
Post condition:	The system will notify the user.

**Table 5: Use Case 3**

Use Case Id:	4
Use Case Name:	Get Information
Created By:	Shanto Islam
Date Of Creation:	10-7-2019
Description:	The system will give him information. .
Primary Actor:	Admin
Secondary Actor:	user
Precondition:	None
Post condition:	None

**Table 6: Use case 4**

### 3.4 Logical Data Model:



**Fig: Logical Data Model.**

## **CHAPTER 4**

### **Design Specification**

#### **4.1 Front-end Design:**

For complete front-end development, we've used some programming language in my project such as:

1. HTML
2. CSS
3. Javascript
4. Ajax
5. JQuery
6. Bootstrap

#### **4.2 Back-end Design**

We used front-end growth :

1. Server-side languages- PHP
2. MySQL Server for Database management

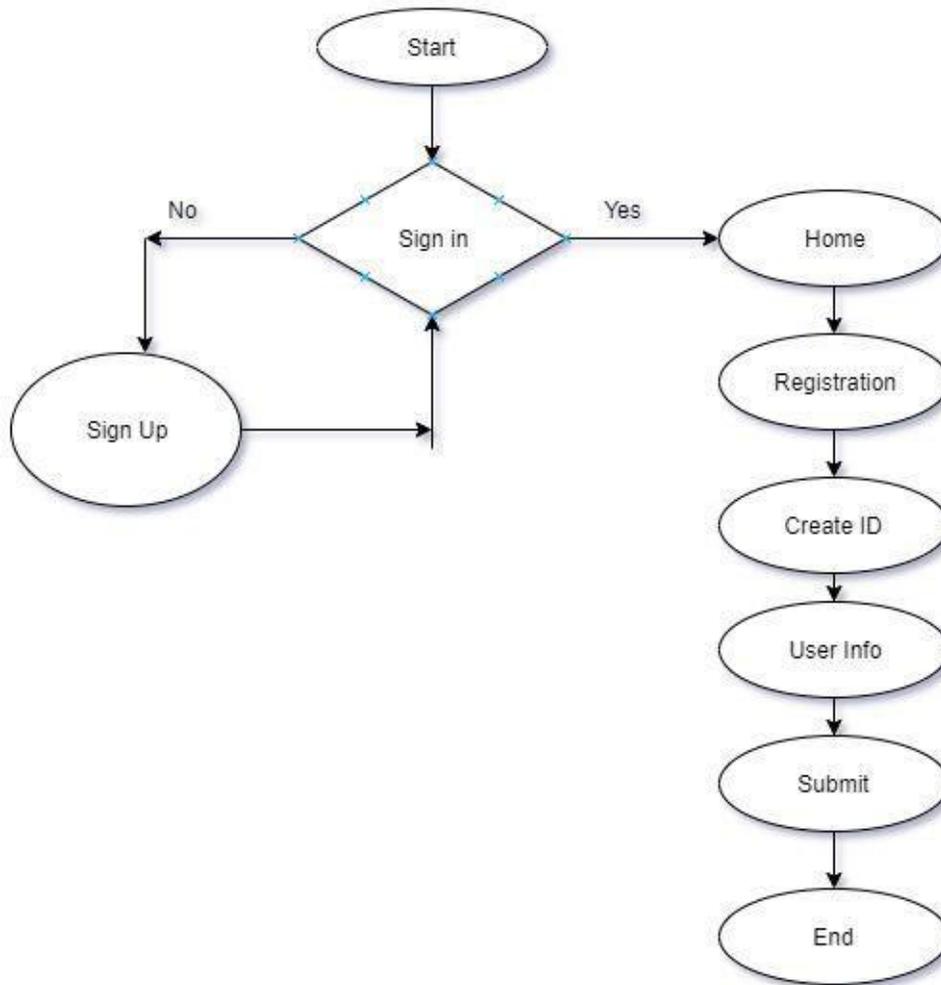
#### **4.3 Description:**

1. A user can register our site and create their profile.
2. User can search the NID.
3. A user can update his profile.
4. Admin can view, update, delete, and create information of user.
5. Other govt. sites are linked with it.

### **4.3.1 Website page Information:**

1. Home page
2. User login
3. Create ID
4. Input Khana Information
5. User registration.
6. Update information
7. Admin login
8. Count information list
9. Input household information

#### 4.4 Project Flowchart:



**Fig: Flow Chart of the Project.**

## 4.5 E-Census Information Management System:

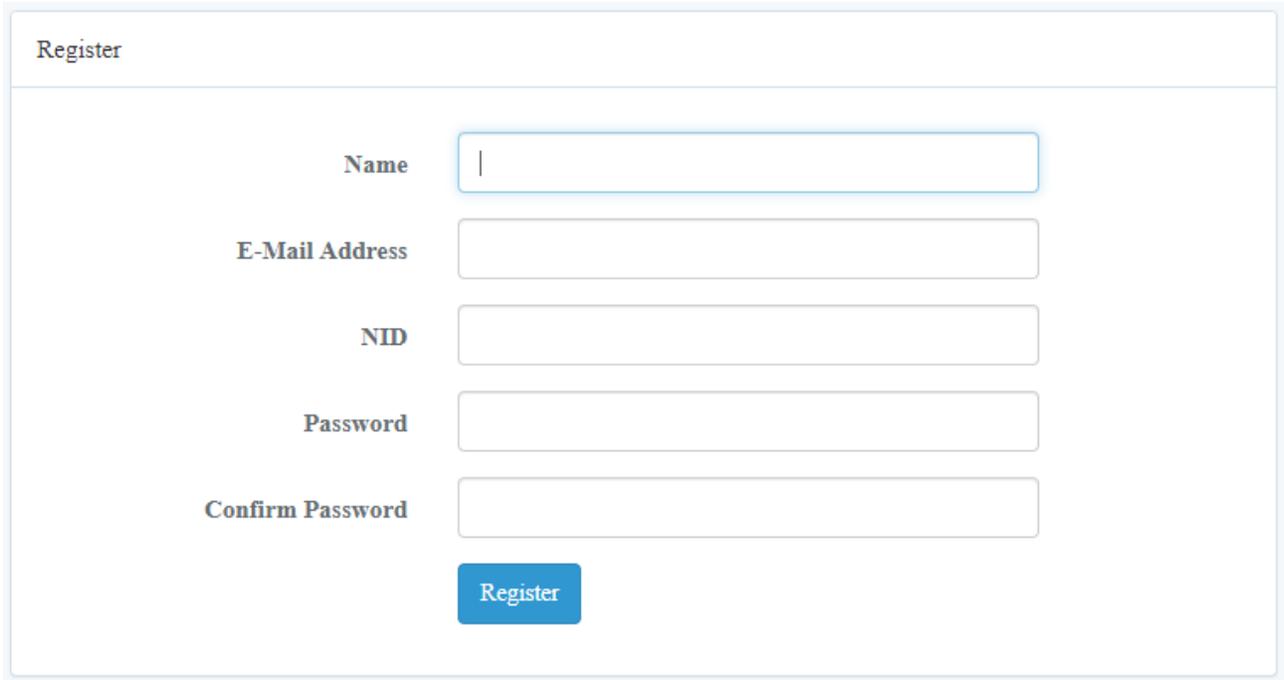
### 4.5.1 Home page:

The home page will provide all basic details on our website and by which doctor and patient can interact with this. As an online medical service in has some special features that have shown on this page



### 4.5.2 Registration Page:

A user need to registration first in order to log in an account. Here is the sample of the registration page.



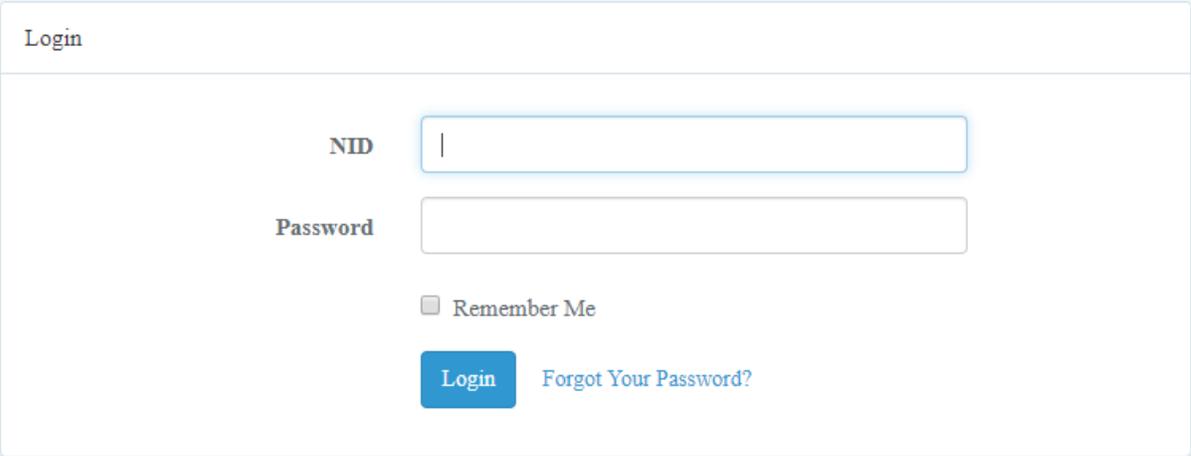
The image shows a registration form titled "Register". It contains five input fields and a button. The fields are labeled "Name", "E-Mail Address", "NID", "Password", and "Confirm Password". The "Name" field has a vertical cursor. Below the fields is a blue button labeled "Register".

<b>Name</b>	<input type="text"/>
<b>E-Mail Address</b>	<input type="text"/>
<b>NID</b>	<input type="text"/>
<b>Password</b>	<input type="text"/>
<b>Confirm Password</b>	<input type="text"/>

**Fig: Registration Page**

### 4.5.3 Login Page:

Firstly, the user will register our site with their personal details. After complete their registration user can login our site.



The image shows a login form titled "Login". It contains the following elements:

- A label "NID" next to a text input field.
- A label "Password" next to a text input field.
- A checkbox labeled "Remember Me".
- A blue button labeled "Login".
- A link labeled "Forgot Your Password?".

**Fig: Log in Page**

## 4.5.4 After Login:

After login a user sees about this page and gives his information.

The screenshot displays a user profile page with a sidebar on the left and a main content area. The sidebar contains three menu items: 'Home', 'HOUSE-HOLD', and 'Member'. The main content area is divided into two sections: 'Permanent Address' and 'Present Address', each with an 'Edit' button. The 'Permanent Address' section includes input fields for House Name/no, Road Name/no, Village Name, Union, Post Code, Thana Name, and District Name. The 'Present Address' section includes a checkbox labeled 'Same As Permanent Address' and corresponding input fields for House Name/no, Road Name/no, Village Name, Union, Post Code, Thana Name, and District Name. A 'Submit' button is located at the bottom right of the form.

□ Home

□ HOUSE-HOLD

□ Member

Permanent Address [Edit](#)

House Name/no :

Road Name/no :

Village Name :

Union :

Post Code :

Thana Name :

District Name :

Present Address [Edit](#)

Same As Permanent Address

House Name/no :

Road Name/no :

Village Name :

Union :

Post Code :

Thana Name :

District Name :

Activate Windows  
Go to Settings to activate Windows

Submit

**Fig: User Provided Information.**

### 4.5.5 House Hold:

Users' house hold information should be given by the user as well.

The screenshot shows a web interface for a 'HOUSE-HOLD' form. On the left is a sidebar with navigation links: Home, HOUSE-HOLD (highlighted), and Member. The main content area is titled 'HOUSE-HOLD' with an 'Edit' button. It contains four columns of form sections, each with radio button options:

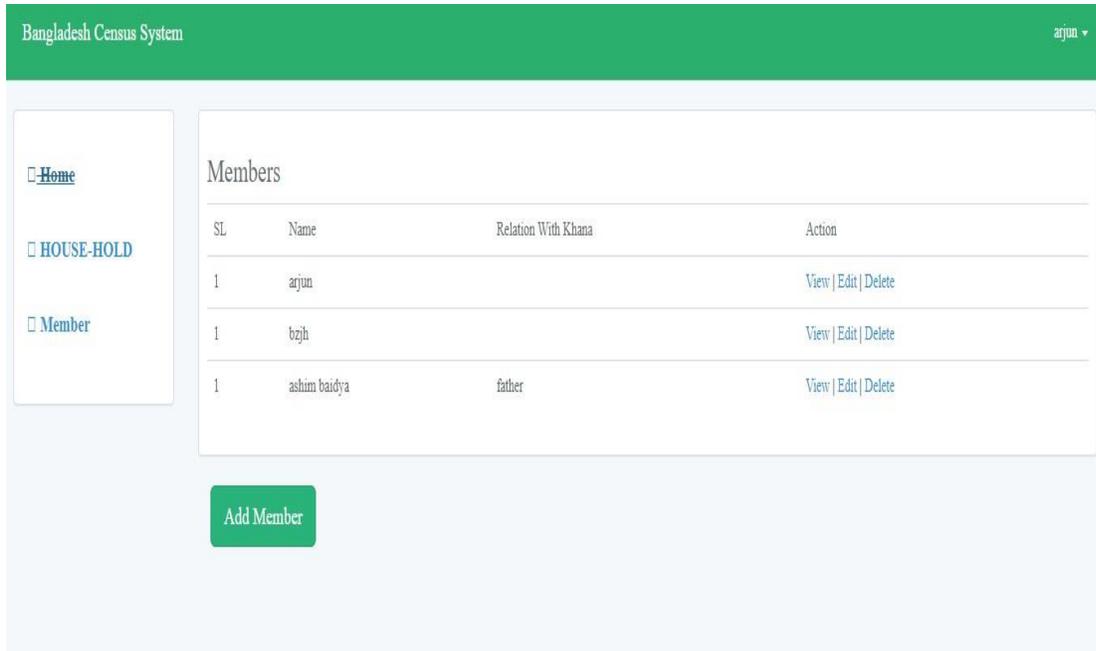
- House:** Own, Leaseholder, Homeless
- House wall:** Brick, Bamboo, Tin, Others
- Latrine:** Sanitary, Paka-Sanitary, Un-sanitary
- Total Land:** No Land, Below One-Akor, One-Akor, OverOne-akor
- Source of Water:** Suplay, Tube-well, Others
- Occupation:** Farming, Business, Politician, Educational
- Number of Persons in Abroad:** One, Two, Three, Four
- Electricity:** Yes, No

At the bottom right, there is a 'Submit' button and a message: 'Activate Windows. Go to Settings to activate Windows.'

**Fig: House Hold of User.**

### 4.5.6 Admin:

An admin can view, change, update and delete the information given by the user.



The screenshot displays the admin interface for the Bangladesh Census System. The top navigation bar is green with the text "Bangladesh Census System" on the left and a user profile "arjun" on the right. A sidebar on the left contains three menu items: "Home", "HOUSE-HOLD", and "Member". The main content area is titled "Members" and contains a table with the following data:

SL	Name	Relation With Khana	Action
1	arjun		<a href="#">View</a>   <a href="#">Edit</a>   <a href="#">Delete</a>
1	bzjh		<a href="#">View</a>   <a href="#">Edit</a>   <a href="#">Delete</a>
1	ashim baidya	father	<a href="#">View</a>   <a href="#">Edit</a>   <a href="#">Delete</a>

Below the table is a green button labeled "Add Member".

**Fig: Admin page.**

## CHAPTER 5

### Implementation and Testing

#### 5.1 Database Management:

Data management is very important for storing and retrieving data from the database. For this project, try to make a good database management by using My SQL database.

##### 5.1.1 Database illustration:

**Location:** A district has a unique id, has a name when user search by location.

**User info:** A user has a unique NID, has a name, contact number, degree, location and job location name in the database that have been shown on the website.

**Admin:** An admin has a unique id, name and a password in the database.

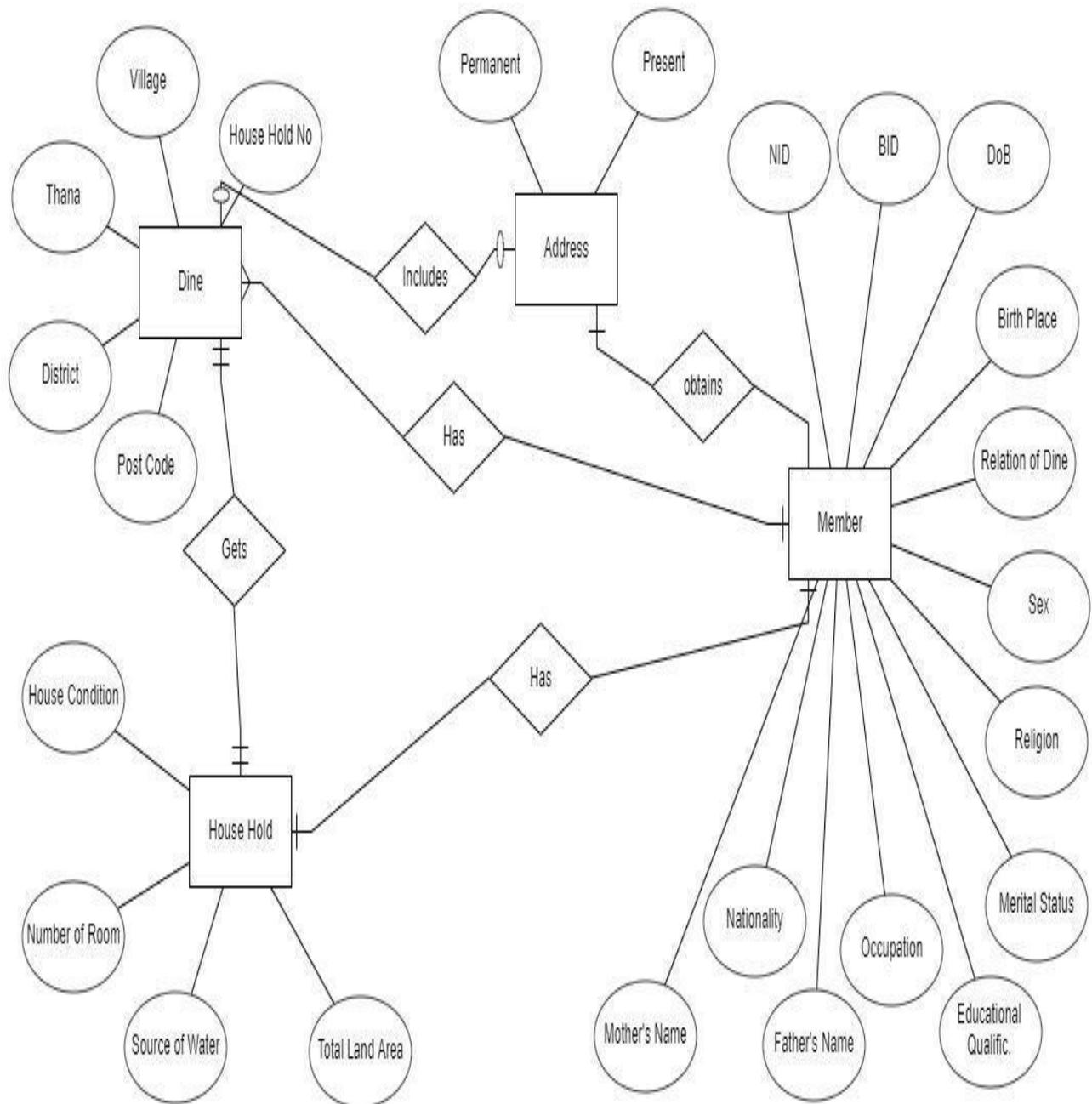
##### 5.1.2 Database Objects:

**Location:** id, name

**User info:** doctor id, name, contact number, degree, organization name, location

**Admin:** admin id, admin name, admin password.

### 5.1.3 Entity Relationship Diagram:



**Fig: Entity Relationship Diagram.**

## 5.2 Database table Figure:

Table structure    Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	id	int(10)		UNSIGNED	No	None	AUTO_INCREMENT	Change Drop Primary Unique Index More
2	user_id	int(10)		UNSIGNED	No	None		Change Drop Primary Unique Index More
3	house_own_type	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
4	house_wall	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
5	latrin_type	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
6	total_land	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
7	source_of_water	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
8	occupation	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
9	number_of_person_in_abroad	varchar(11)			Yes	NULL		Change Drop Primary Unique Index More
10	electricity	varchar(191)			Yes	NULL		Change Drop Primary Unique Index More
11	created_at	timestamp			Yes	NULL		Change Drop Primary Unique Index More
12	updated_at	timestamp			Yes	NULL		Change Drop Primary Unique Index More

Check all    With selected:     Browse    Change    Drop    Primary    Unique    Index    Add to central columns  
 Remove from central columns

**Fig: Database.**

Columns

```

id
user_id
house_own_type
house_wall
latrin_type
total_land
source_of_water
occupation
number_of_person_in_abroad
electricity
created_at
updated_at
  
```

**Fig: Database Entities.**

#	Name	Type	Coll
<input type="checkbox"/>	1 <b>id</b> 	int(10)	
<input type="checkbox"/>	2 <b>nid</b>	int(11)	
<input type="checkbox"/>	3 <b>user_id</b> 	int(10)	
<input type="checkbox"/>	4 <b>bid</b>	varchar(191)	
<input type="checkbox"/>	5 <b>name</b>	varchar(191)	
<input type="checkbox"/>	6 <b>birth_date</b>	varchar(191)	
<input type="checkbox"/>	7 <b>occupation</b>	varchar(191)	
<input type="checkbox"/>	8 <b>education</b>	varchar(191)	
<input type="checkbox"/>	9 <b>relation_with_khana</b>	varchar(191)	
<input type="checkbox"/>	10 <b>present_address</b>	varchar(191)	
<input type="checkbox"/>	11 <b>mobile_no</b>	varchar(191)	
<input type="checkbox"/>	12 <b>sex</b>	varchar(191)	
<input type="checkbox"/>	13 <b>marital_status</b>	varchar(191)	
<input type="checkbox"/>	14 <b>religion</b>	varchar(191)	
<input type="checkbox"/>	15 <b>nationality</b>	varchar(191)	
<input type="checkbox"/>	16 <b>living_style</b>	varchar(191)	

Console

**Fig: Database Tuples.**

### **5.3 Implementation of Front-end Design:**

Advancement of customer side of WA is called front-end improvement and front-end (FE) itself is then acknowledged as each substance client can see and can cooperate within a program. It is typically a blend of Hypertext Mark-up Language (HTML), Cascading Style Sheet (CSS) and JavaScript (JS). These dialects are composed and managed by an internet browser, bringing about a website page - interface client can collaborate with. The set of all accessible website pages is called a site.

## **CHAPTER 6**

### **Conclusion and Future scope**

#### **6.1 Discussion:**

An E-Census Information Management System is an online census service based website. Nowadays it is very essential for the fastest growing country like ours. It can decrease govt. cost and make easier our life in many ways. Most of the people don't know which service are rendering by govt. to them. For this reason our website will help to find out and enlist as a citizen of Bangladesh.

#### **6.2 Conclusion:**

This task gives a wide range of facility that a people need to fulfil. By this project a man can effortless life from this site. The site give of this by its handle all patient requests and ease of use. At long last rundown of view. Our future hope is to build up a nation which is technically and educationally sound. Most of the people of our country is illiterate. Good service of education is needed to every person. Through this website all people of our country can be come to acknowledgement of the responsible.

#### **6.3Future scope:**

- We will add user log in system and also add user profile
- Spread this division wise
- In future we will build it mobile application
- We will be add doctor category and many other symptoms

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