

**ONLINE VOTING SYSTEM
BY**

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

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APPROVAL

This Project titled "ONLINE VOTING SYSTEM", submitted by Md Nazmus Sakib, ID No: 161-15-6824, Tahera Koly, ID No: 161-15-6887 And Mst. Sonia Akter, ID No: 161-15-7636 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 6 December, 2019.

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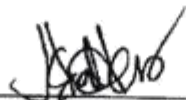
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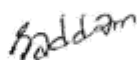
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of Mr. Md Azizul Hakim, Lecturer, Department of CSE. 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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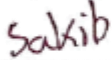
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We would like to express our heartiest gratitude to supervisor, co-supervisor and Head, Department of CSE, for his kind help to finish our project and also to other faculty members and the staff of CSE department of Daffodil International University.

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

ABSTRACT

This project title is “Online voting Management System”. The project is web-based project. The online voting system is for the citizens of Bangladesh that consists of data and information of voters. Database of the Voter’s information and details. Also, NID card of the voters. It can help the common people for selecting their Prime Minister, Chairman and other Member. This application has been developed by a content management system using HTML, CSS, Java script, Bootstrap4 and written in PHP (CodeIgniter Framework MVC Pattern) and MYSQL Database. This application can play a vital role so that people can give their vote easily from anywhere.

TABLE OF CONTENTS

CONTENTS	PAGE
Board of Examiners	i
Declaration	ii
Acknowledgement	iii
Abstract	iv
Table of Contents	v-vii
List of Figures	viii-ix
List of Tables	x

CHAPTER

CHAPTER 1: INTRODUCTION 1-3

1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	1
1.4 Expected Outcome	2
1.5 Report Layout	2

CHAPTER

2: BACKGROUND 4-5

2.1 Introduction	4
2.2 Related Works	4
2.3 Comparative Studies	4
2.4 Scope of the Problem	5
2.5 Challenges	5

CHAPTER 3: REQUIREMENT SPECIFICATION 6-16

3.1 Business Process Modeling	6
3.2 Requirement Collection and Analysis	6
3.3 Use Case Diagram	8
3.4 DataFlowDiagram	10

3.5 Design Requirements	10
3.6 Database Tables	15
3.7 Security Requirements	15
3.8 Time Management	16
3.9 Team Members	16
CHAPTER 4: DESIGN SPECIFICATION	17-19
4.1 Front-end Design	17
4.2 Back-end Design	17
4.3 Interaction Design	17
4.4 Implementation Requirements	17
4.5 Project Flowchart	18
CHAPTER 5: IMPLEMENTATION AND TESTING	20-28
5.1 Implementation of Database	20
5.2 Implementation of Front-end Design	20
5.3 Implementation of Interactions	20
5.4 Testing Definition	21
5.5 Testing Implementation	22
5.6 Test Result and Reports	28
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	29
6.1 Conclusion	9
6.2 Future Scope	29
APENDIX	30
Appendix A: Project Reflection	30
Appendix B: Related Diagrams	30
REFERENCES	31

LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1: Business Process Modelling	6
Figure 3.2: Use case diagram of online voting management system	8
Figure 3.3: Block diagram of the system	10
Figure 3.4: User Registration Diagram of Online voting system	11
Figure 3.5: User Login Diagram of Online voting system	12
Figure 3.6: Block Diagram of apply user update information	13
Figure 3.7: Admin Login Diagram	14
Figure 3.8: Admin verify user update application diagram	14
Figure 3.9: Admin Table	15
Figure 3.10: Voter Table	15
Figure 3.11: Candidate Table	15
Fig 3.12: Election Table	15
Figure 4.1: User registration page	18
Figure 4.2: User login	18
Figure 4.3: Home page	18
Figure 4.4: Flowchart of the Online Voting System	18
Figure 5.1: Database table	20
Figure 5.2: Registration Form	23
Figure 5.3: Registration Form	24
Figure 5.4: Registration Confirmation	24
Figure 5.5: Sign In page for User	25
Figure 5.6: Apply for Candidate page	25
Figure 5.7: Apply for Candidate form	26
Figure 5.8: Candidate Request List page	26
Figure 5.9: New Election page	27
Figure 5.10: voting page voters will cast his vote	28
Figure 5.11: voting page	28

LIST OF TABLES

TABLES	PAGE NO
Table 3.3.1.1: Use case modelling table for voter	8
Table 3.3.1.2: Use case modelling table for Candidate	9
Table 3.3.1.3: Use case modelling table for Admin	9
Table 5.4.1: Testing Implementation	21

CHAPTER 1

INTRODUCTION

1.1 Introduction

For making an opinion election campaigns are called voting system. By voting people can elect their representative of an area. Representative of an area is called "constituents", and who elects their candidate are called "voters". Our country is developing day by day. By using the current technology day by day every sector is being developed. So, our project is "Online Voting Management System" for making people's life so much easier. Our project is for the citizens of Bangladesh. And there are also some requirements. Whose age is Above 18 years old can vote with their Finger Print. A voter can cast their vote online without any difficulty in "ONLINE VOTING SYSTEM".

1.2 Motivation

In our country the manual voting system is used for many years. But people of our country cannot attend the voting for many reasons. Some of the reasons are-

- Sometimes people cannot present in their own region where they registered so that they cannot give the vote.
- Fake vote can be voted
- In the voting center sometimes, collisions can be held so that people fear to go to the voting center.
- Sometimes the polling agent changes the count of voting so that the real representation cannot be elected.

So, we think that, we should go to the online voting management system where people can give their own vote by themselves from anywhere in the world and make a transparent public representative for their own region and again no one can cheat in this system. Again, they can save their valuable time. That's the motive for developing this system. We want to make people's life easier.

1.3 Objectives

Our main objectives are:

- Implementing an automated voting system

- Validating the system to assure that only one's country's voters are approved
- Advantageous vote casting through mobile or web application
- Instant poll result
- Candidate can apply through this application to the political party which he wants and election commission accept it after political party's acceptance
- Easy to keep track of voters
- To highly secure the system

1.4 Expected Outcome

In our country our voting procedure causes many problems sometimes. So, people have to face many difficulties for that procedure. Our purpose is to change the procedure. And making the system easier for people. Our project can shorten the procedure and can reduce many problems.

So that people can cast their vote easily from anywhere without facing any difficulty. It must be a secure system. It will save time and energy of people. In the system people can choose their candidate very easily. It will control many inappropriate circumstances.

1.5 Report Layout

Chapter 1: Introduction

We discussed here about our project, a short brief about Online Voting Management System". And also, we give brief about motivation and expected outcomes.

Chapter 2: Background

In this chapter we discussed about related works of our system and also the features. It may cause problems in future we discussed about that. We face many challenges, so also give short note on that.

Chapter 3: Requirement Specification

Here we discuss about the business process modeling, requirements collection and analysis, use case modeling, logical data model and also discuss about the design requirements.

Chapter 4: Design Specification

In this chapter we discuss about the design pattern of our project such as front-end design, back-end design, interaction design & UX and also discuss implementation requirements.

Chapter 5: Implementation and Testing

This chapter is all about implementation of various things such as database, front-end design, interactions. Here we also describe testing implementation, test results and reports of this project.

Chapter 6: Conclusion and Future Scope

Finally, here we discuss about the conclusion and about the future scope of our system.

CHAPTER 2

BACKGROUND

2.1 Introduction

Online voting system is a way of selecting candidates via a web guided application. The benefits of online voting over the general queue process is that, people can vote from their own city. It also reduces error of vote counting. The exclusive votes are submitted in a database. It detects who is a candidate for a given post and how many votes the candidate gets. Here we used PHP as the coding language, HTML5, CSS, JAVASCRIPT as the design object. We also used MYSQL, APACHE database.

2.2 Related Works

We saw the EVM system existing which some characteristics are like our application.

2.2.1 Features

- One can cast one vote against their NID
- It is offline version
- It can count vote automatically
- Because of offline version it is not hackable

2.2.1 Problems

- Anyone can cast other's vote by knowing just their NID
- EC cannot create any vote by using EVM machine
- Though it counts vote automatically but separate machine has a limitation of counting vote so that polling agent need to do the summation of all the machines of the center and then all over the country. So polling agent can announce fake counting.
- Any machine can be spoiled at any time
- People have to go to the voting centers to cast their vote.

2.3 Comparative Studies

As we can see, the present system has some major problems. Here our system will solve all the problems.

2.3.1 Our features

- Secured login and registration procedure
- New ID generate randomly
- To give vote from your own space
- Rational nominee of respective wards
- Voters give the NID number, finger-print and ensure their vote of appropriate candidate
- By the end of the voting time, people can see the results
- Casting vote is possible only with authentication of voter
- Nominee will be notified of SMS
- Candidate can apply for their nominations to political party
- Only that region people can vote which region will be created for vote casting by the EC

2.4 Scope of the Problems

- No experiences
- Internet problem
- Missing finger-print
- Short time provided to view the voter register
- Different time errors during data entry

2.5 Challenges

- Ensuring the fingerprint devices
- For making people used to by this system
- Internet connection must be provided all over the country.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modelling

Admin can enter in the system by login. Birth certificate registration process can be done by Admin. In the system candidate can apply for the election. Here admin can approve candidate by this eligibility. If any user needed to update his information, admin can update user information. And he can also create election with a particular time and date.

Party office can enter in the system by login and he can see candidate information only. If he approves the candidate then the candidate will go to the admin for further process.

User can enter by completing the registration process and login. Then he can find out about what election is going on. But he can cast his vote if the election is going to his area. After the ending time everyone can see the result.

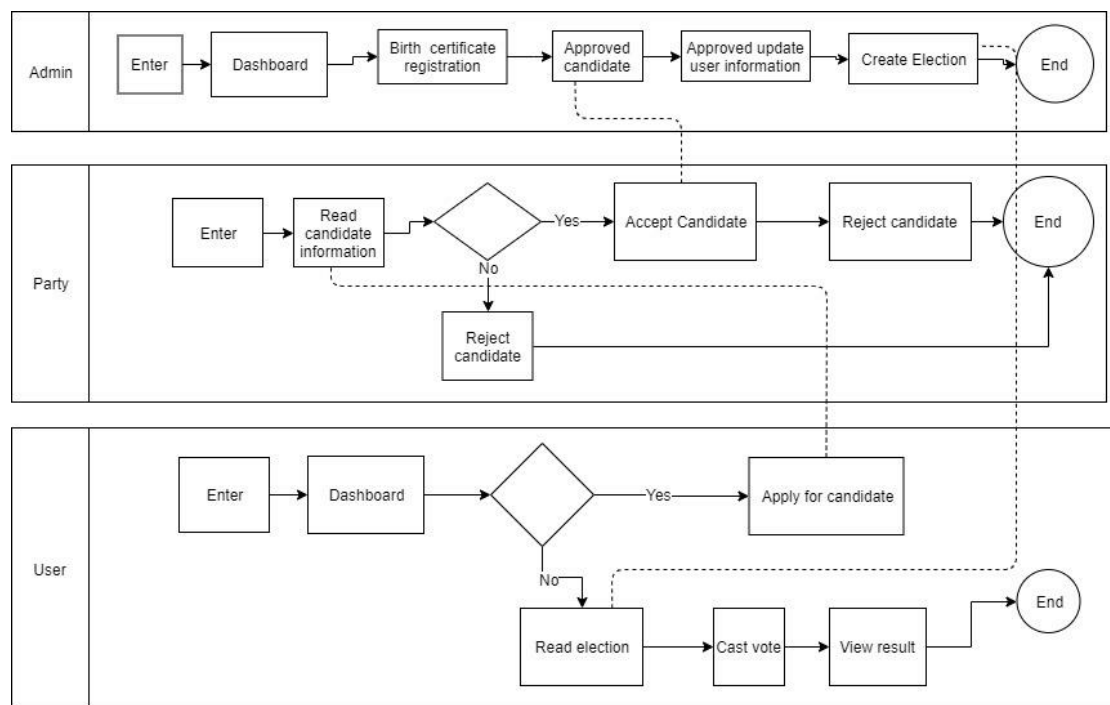


Figure 3.1: Business Process Modelling

The system of requirements specification for software is fateful since it plays a role on the acceptability and usefulness of the developed software.

3.2 Requirements Collection and Analysis

Here we give software requirements that we used for developing our project.

3.2.1 Front-end

- HTML
- BOOTSTRAP
- CSS
- JQUERY
- AJAX

3.2.2 Back-end

- PHP as server-side language
- MySQL server for managing server-side action

3.2.3 Hardware Requirements

- Finger-print

3.2.4 Analysis

- Every voter has their own login ID and password. They also have their own profile
- Without login id and password voter can't cast vote
- Candidate have to apply for the voting process
- Admin will set the starting and ending time of the voting day

3.3 Use Case Diagram

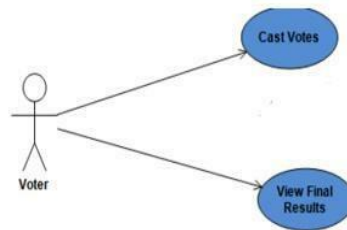


Figure 2: Use Case Diagram for the Voter

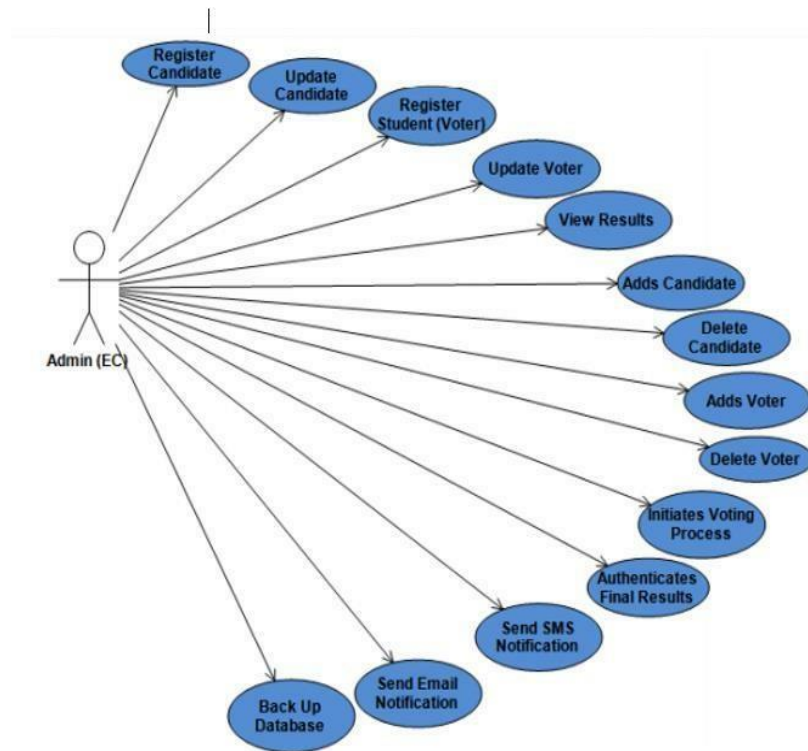


Figure 3.2: Use case diagram of online voting management system

3.3.1 Use Case Description

Table 3.3.1.1: Use case modelling table for voter

Use-case Name	Use-Case Modeling for Voter
Actor	Citizen
Pre-Condition	Registration
Internal Path	1. Log in 2. Click sent request
External Path	1.1 Please enter NID

	2.1 Please click sent request
Notes	User need to use their NID and Password for login in to our site.

Table 3.3.1.2: Use case modelling table for Candidate

Use-case Name	Use-Case Modeling for Candidate
Actor	Citizen
Pre-Condition	Registration
Internal Path	1. Fill up the Candidate form 2. Click sent request
External Path	1.1 Please enter NID 2.1 Please click sent request
Notes	User need to use their NID and Password for login in to our site.

Table 3.3.1.3: Use case modelling table for Admin

Use-case Name	Use-Case Modeling for Admin
Actor	Citizen
Pre-Condition	Log in
Internal Path	1. Select Voter 2. Delete Voter
Exception Path	1. Update Voter's information
Notes	Admin has access to everything.

The admin can add a new voter to the database.so that voter can vote in voting day. He can also update a voter's information in the database. If a voter needs to change his or her name, mobile number, location etc.

3.4 Data Flow Diagram

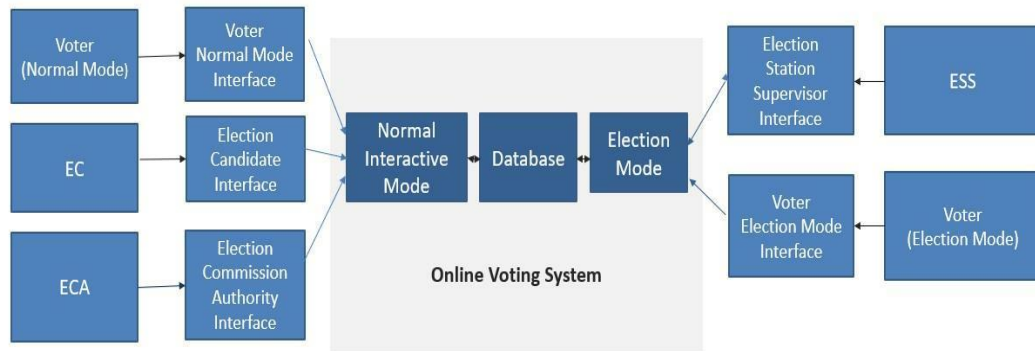


Figure 3.3: Block diagram of the system

There are two modes in voting system. One is voter normal mode and another is voter election mode. Voter normal mood is the pre process of being a voter. One has to registration for becoming a voter. And he has to provide his information for being a voter. Here he can also update and delete his information. Election commission authority manage these stuffs.

Second mode is voter election mode. This is the voting day process. How a voter will submit his vote. This process will work on that.

3.5 Design Requirements

Here is some design requirement is described below.

3.5.1 User Registration

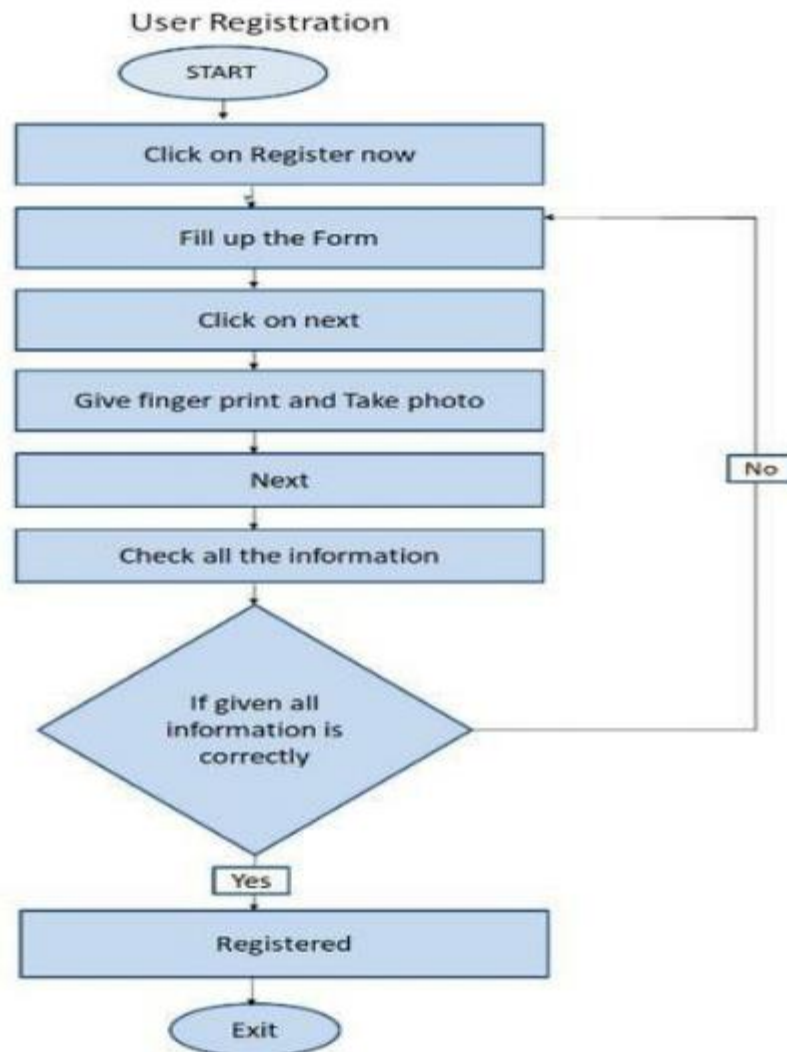


Figure 3.4: User Registration Diagram of Online voting system

For user registration process one has to click on “register now”, then a form will arrive, by giving his information in the form, he has to fill up the form. Then finger print option will arrive and he have to submit his photo also. After checking all information, if it is correct or not the registration process will be completed.

3.5.2 User Login

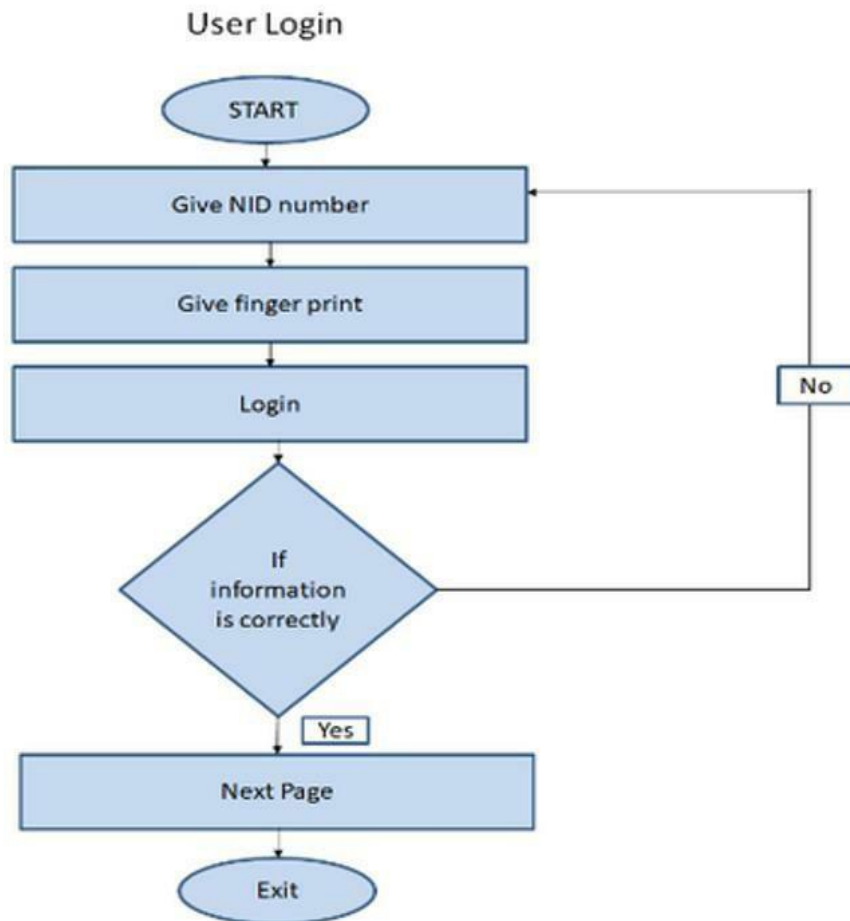


Figure 3.5: User Login Diagram of Online voting system

In login process voter have to put his NID number. Then he has to give his finger print. If all information is correct. Then next page will arrive.

3.5.3 User Update Information

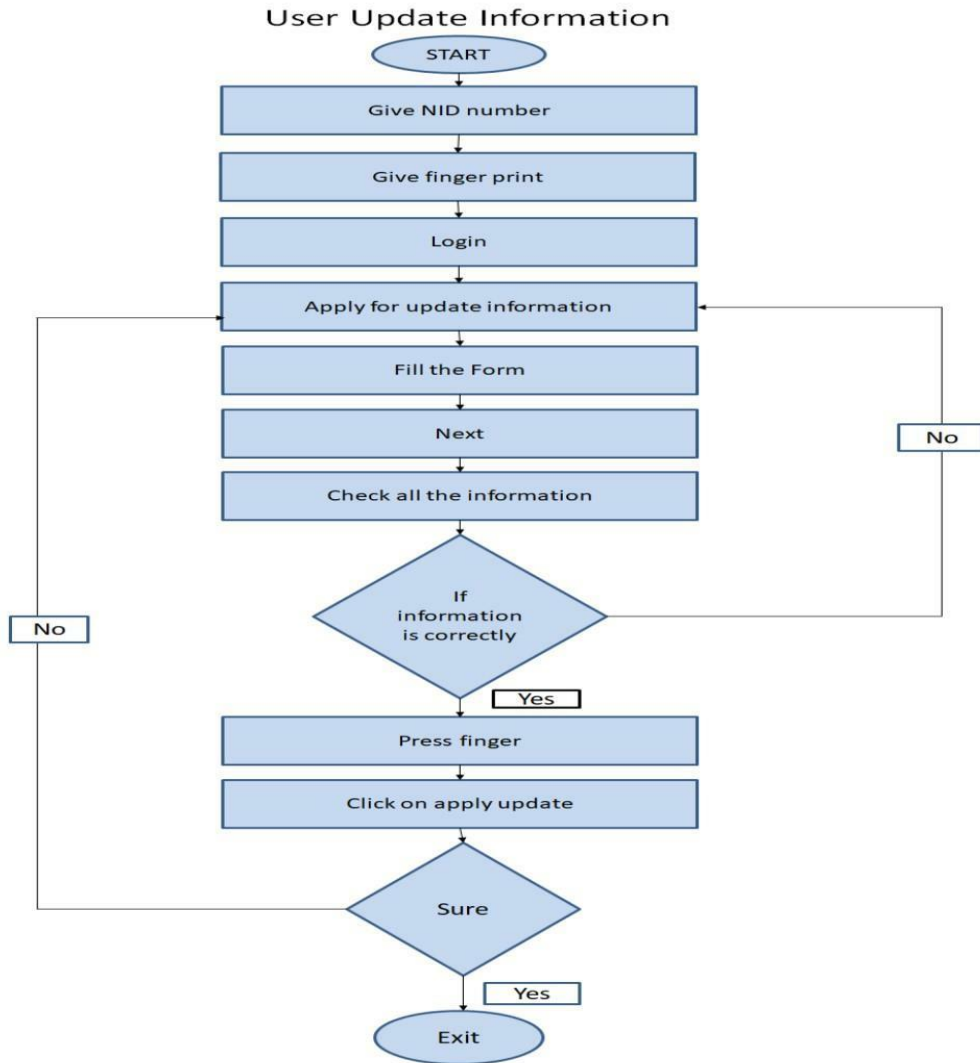


Figure 3.6: Block Diagram of apply user update information

If any user wants to update his information. He has to follow some steps. At first, he has to give his finger print. By this the user will be able to login. Then he will apply for update information. There will be a form. By filling up the form he will go to the next step. If information is correct, then by giving his finger print he will apply for update information.

3.5.4 Admin Login Diagram

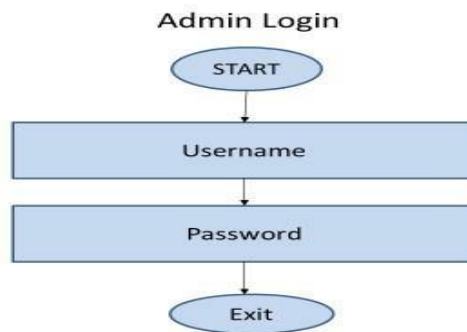


Figure 3.7: Admin Login Diagram

Admin will login by giving his username and password.

3.5.5 Update Application

Admin verify user update application

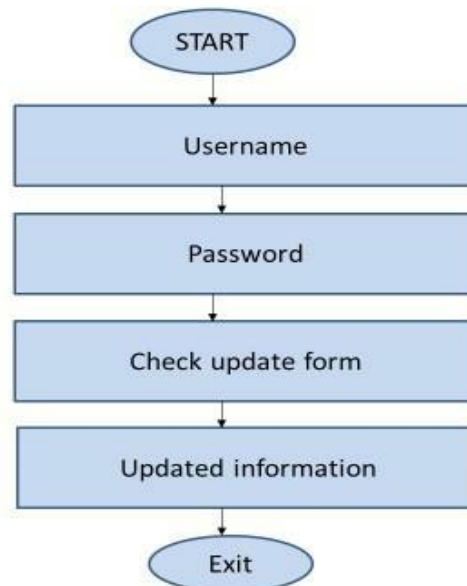


Figure 3.8: Admin verify user update application diagram

Admin will update all information. And admin will check update form, then he will update information.

3.6 Database Tables

The project uses many tables:

- Admin
- Voter
- Candidate
- Elections

3.6.1 Admin Table

Options		id	username	password	firstname	lastname	photo	created_on
<input type="checkbox"/>		1	admin	\$2y\$10\$FLK8s7ZDnM.1E7XMP.J6OuPbQ.DPUVKBo7rENnQY7g...	Admin		clipart2012057.png	2019-10-03

Figure 3.9: Admin Table

3.6.2 Voter Table

Options		id	firstname	lastname	password	dob	sex	bp	bcid	Fname	Mname	pa	nid	division	district	upazila	unions	pt
		1	Tanvir	Ismail	\$2y\$10\$AO5X69Q1	2019-10-	Male	dhaka	1234567i	sdf	sdf		54633907874501	3	1	145	503	
		2	sdf	sdf	\$2y\$10\$dFGy/UIPD	2019-10-	Male	sdf	5641236i	sdf	sdf		08522968413619	3	1	145	513	
		3	gdfg	dfg	\$2y\$10\$HV4wBor2f	2019-10-	Male	dfgdfg	2365412i	sdf	sdf		40227519639800	3	1	145	503	
		4	Nazmus	Sakib	\$2y\$10\$Z9rOqxEHZ	1996-04-	Male	Dhaka	3456786i	X	Y		04723566205849	3	1	146	508	

Figure 3.10: Voter Table

3.6.3 Candidate Table

Options		id	national_city_upzila	constituency	party_id	position_id	position_name	candidate_id	firstname	lastname	photo	union_id	election_id
<input type="checkbox"/>		5	city	south dhaka	1	2	meor	4	Nazmus	Sakib	no-image.jpg	508	10
<input type="checkbox"/>		6	city	south dhaka	1	2	meor	4	Nazmus	Sakib	no-image.jpg	508	11

Figure 3.11: Candidate Table

3.6.4 Elections

Options		id	election_type	constituency	date	start	end
<input type="checkbox"/>		13	city	a:1:{i:0;s:11:"south dhaka";}	2019-11-06	13:27:00	13:58:00

Figure 3.12: Election Table

3.7 Security Requirements

- The eligible person can cast his vote
- No one can't change the vote
- The System must record the votes correctly
- In the final vote all the votes should be counted perfectly
- Voters can vote one time
- Voters can vote from anywhere with internet

3.8 Time Management

Almost two months needed to complete the project regarding planning phases.

3.9 Team Members

- There should be team for completing the project
- Each member of the team works on specific task
- According to the requirement one member get information to develop the project
- One of the team members will work on planning, and what we need more
- Another one works on coding and design
- Finally, it is being tested and developed

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-End is a part of software system. It connects with the user. It collects input from the user. User may be a human being or program, whatever the user is. Front end connects with it directly. Adding a background image in Front End design list, it gives the user a good impression for using the website.

HTML, BOOTSTRAP, CSS, JQUERY, and AJAX is used for Front-End design in our project.

4.2 Back-end Design

Back-end depends on Front-End. Because firstly it process data from the Front End. Front-End process data in such a way, that back -End can process data .Back-end is a process that the user can't see it. User can't see its structure. For connecting with the database developers need to use a programming language, such as PHP. In web project back -end can use easily more than android.

We use PHP as server-side language and MySQL server for managing server-side action.

4.3 Interaction Design and UX

When user use an application, he may face many problems and difficulties .So the interaction design works for that problems that the user may face. It also show what will be the expected outcome of a project .for preventing problems for the user.

UX is very important part of a project .When we make application, we make it for the betterment of the user .So their experience is very important .So making the comfortable application, a proper planning is needed.

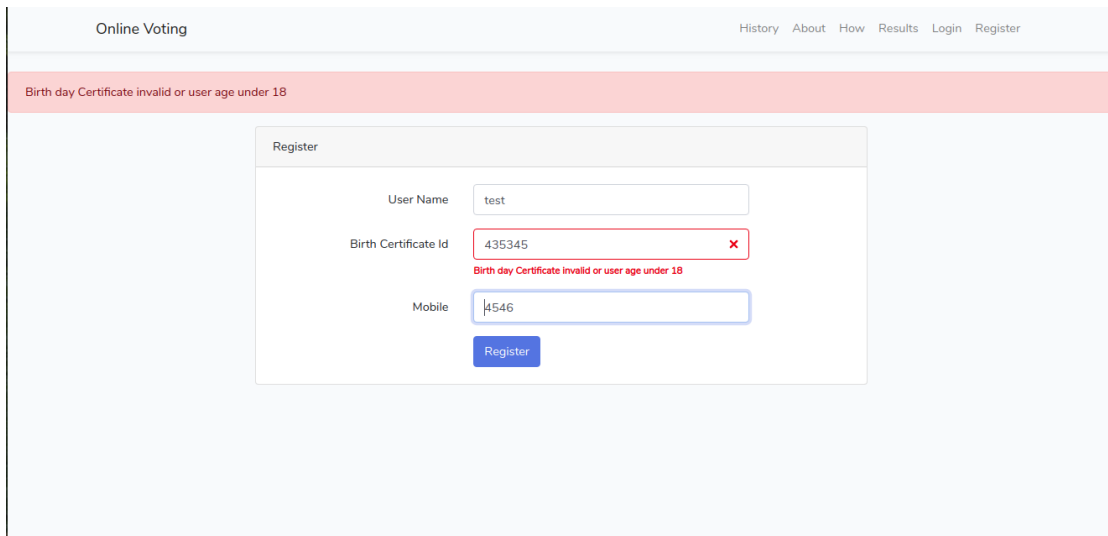


Figure 4.1: User registration page

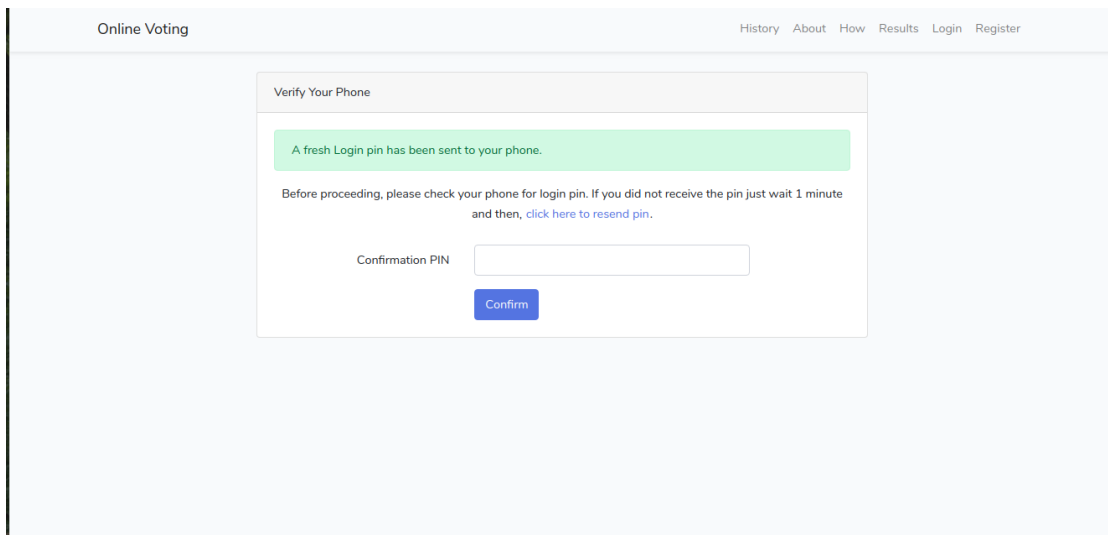


Figure 4.2: User login

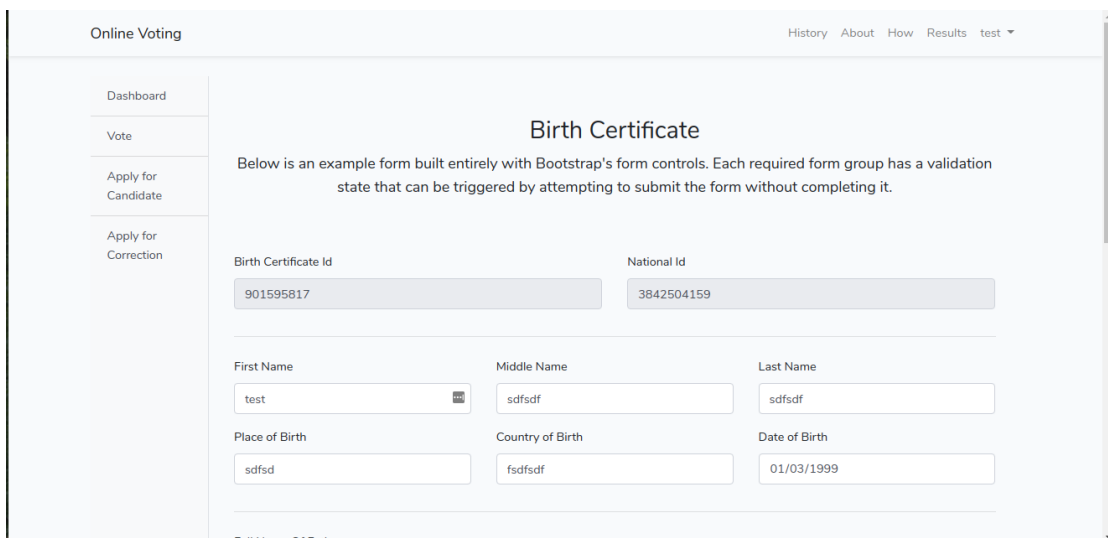


Figure 4.3: Home page

4.4 Implementation Requirements

For making any project there need some tools. We use some tools for our application. In chapter three we have discussed about it specifically and in details. For every part what tools we use we already have brief it there.

4.5 Project Flowchart

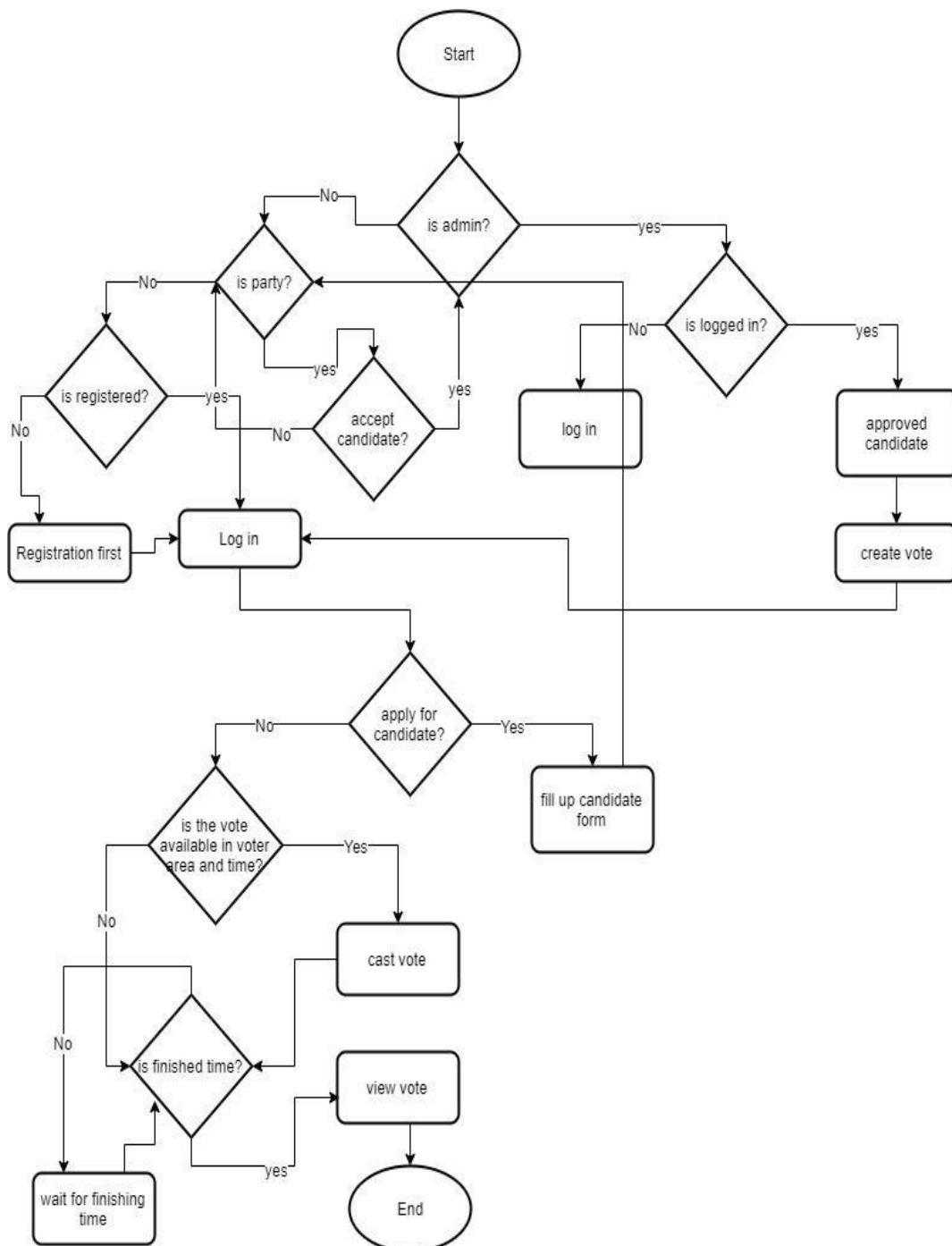


Figure 4.4: Flowchart of the Online Voting System

There are two modes in voting system. One is voter normal mode and another is voter election mode. Voter normal mood is the pre process of being a voter. One has to registration for becoming a voter. And he has to provide his information for being a voter. Here he can also update and delete his information. Election commission authority manage these stuffs.

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And admin will check update form, then he will update information.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

For developing web application MySQL is used most of the time. In this project we also use MySQL database and stored in localhost phpMyAdmin.

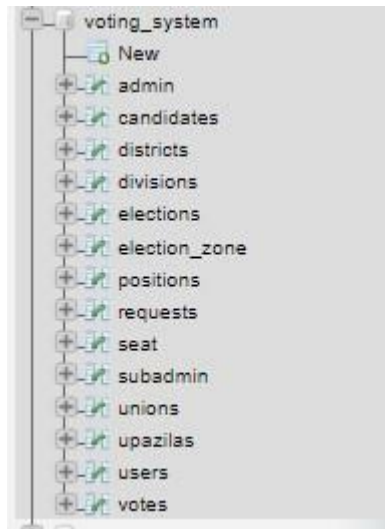


Figure 5.1: Database table

5.2 Implementation of Front-end Design

Front-End Design is most important thing of a project. Because it attracts most of the people for using the application.

People interact with Front-End design at first. The Front-End is the part of a software system. Back-End process input from the Front-end. Front-End collect data from the user that can be changed. Back- End is an indirect process.

5.3 Implementation of Interactions

When we build an application, it is necessary that the application user can use easily. And keeping in mind that we try to make our application simple and easy. So that the user can use it comfortably. If user face any difficulties they can also get help.

5.4 Testing Definitions

There are some levels of testing

- Unit Testing
- Systems Testing
- Acceptance Testing

5.4.1 Unit Testing

Unit testing is the first level of testing. It is done during the development of the system. It is essential for verification of the code. It is performed by the programmer. They find out the error of the code then fix it. No formal documentation required for this program.

5.4.2 Integration Testing

This is the second level of testing. Due to the integration of modules different dependent modules are tested for any bugs.

5.4.3 Systems Testing

This is the third level of testing software. In this level testing will be done by technicians and users together. The third level of testing includes systems testing. Systems testing verify that the system performs the business functions while meeting the specified performance requirements. It is performed by a team consisting of software technicians and users. It uses the Systems Requirements document, the System Architectural Design and Detailed Design Documents, and the Information Systems Department standards as its sources. Documentation is recorded and saved for systems testing.

α -Testing β -Testing

5.4.4 Acceptance Testing

This is the final level testing. After this testing a software can be assured that the system is ready for production use. I fulfil all the requirements of the project document.

5.5 Testing Implementation

Table 5.4.1: Testing Implementation

NO	Tested Case	Tested Input	Expected Outcome	Actual Outcome	Result
1	Registration	Enter Name, id, email, Phone number, Password etc.	Registration successful and enter into the system	Registration successful and entered into the system	Passed
2	Sign in	Enter username and password	Enter into the system if he had done registration first	Entered into the system	Passed
3	Apply for candidate	Click on sent request and submitted	Request convert into requested	Request converted into requested	Passed
4	Party office except request	Click on accept button from candidate request list	Legal candidate has selected	Legal candidate has selected	Passed

5	Add new election	Date, start and end time, election type and constituency	Successfully Added a new election and saved	Successfully Added a new election and saved	Passed
6	Cast Vote	Voter submit vote	Vote has been submitted	Vote has been submitted	Passed

5.5.5 Testing Sample

Figure 5.2: Registration Form

There is a registration form in our system. User have to register here for becoming voter or candidate by filling up the form.

One User can register once. If he already has done registration, he can't do twice by the same birth certificate.

Online Voting History About How Results test ▾

Dashboard
Vote
Apply for Candidate
Apply for Correction

Birth Certificate

Below is an example form built entirely with Bootstrap's form controls. Each required form group has a validation state that can be triggered by attempting to submit the form without completing it.

Birth Certificate Id: 901595817 National Id: 3842504159

First Name: test Middle Name: sdfsdf Last Name: sdfsdf

Place of Birth: sdfsdf Country of Birth: sdfsdf Date of Birth: 01/03/1999

Full Name Of Father

Figure 5.4: Registration Confirmation

After completing the registration process user will get a NID.

Online Voting History About How Results Login Register

Verify Your Phone

A fresh Login pin has been sent to your phone.

Before proceeding, please check your phone for login pin. If you did not receive the pin just wait 1 minute and then, [click here to resend pin](#).

Confirmation PIN:

[Confirm](#)

Figure 5.5: Sign In page for User

After that, he can sign in with that NID and OTP.

Figure 5.6: Apply for Candidate page

Figure 5.7: Apply for Candidate form

Here he can apply for the candidate by filling up the candidate from.

#	Fullname	Election	Position	Zone	Admin Approved	Action
7	test correction sdfsd sdfsd	parliament election 2019	Member of Parliament(MP)	Dhaka 1	NO	<input type="button" value="Approve"/> <input type="button" value="Delete"/>

Figure 5.8: Candidate Request List page

After applying for the candidate, it will go for the acceptance to the party office.

Figure 5.9: New Election page

Election will be occurred here. Election date, starting and ending time of the election will be provided here.

Figure 5.10: voting page voters will cast his vote.

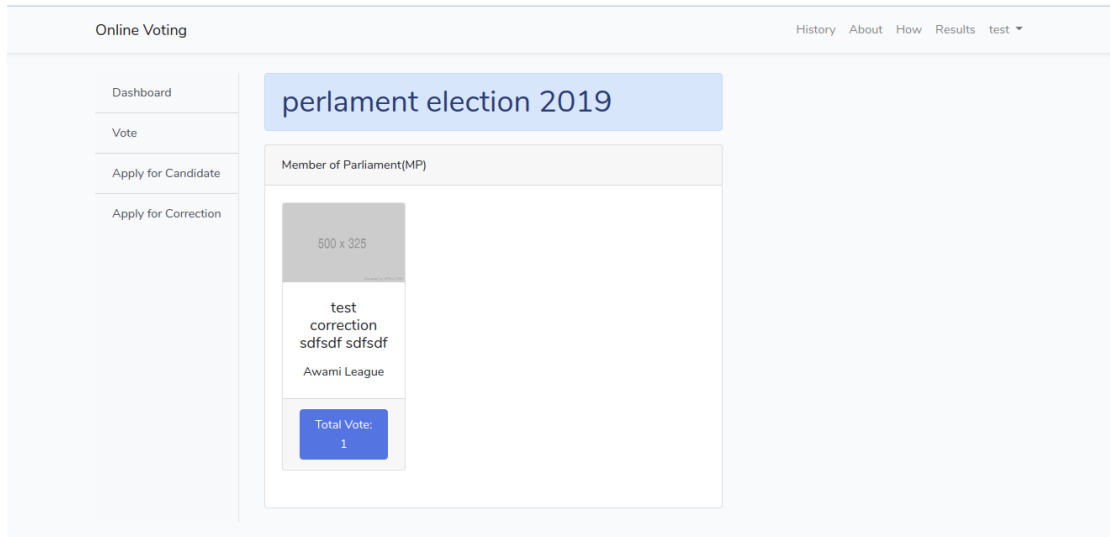


Figure 5.11: voting page

One voter can vote once

5.6 Test Results and Reports

We have tested our project very carefully and we are successful. We try to find errors, so we work on it many times. But we are not able to find any errors. We make our application easier so that user can use it comfortably. In our report we put all of our works together.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Conclusion

The Online Voting Management System will manage the voter's information, so voter can login and can cast their vote by fulfilling requirements for becoming a voter. All features of voting system will organize in the system. Some features will be maintained by the admin. Here voter's data will be stored. Who is above 18 years, they can register and can login by his /her ID and password. Then they can cast their vote only single time. By this system it decreases the cost and time of voting process. It is easy to use and it's a very less time consuming.

6.2 Future Scope

- Adding traffic management system
- Adding passport management system
- Adding driving license management system
- Adding immigration management system
- To secure ride sharing, all sharing company must be included in this system
- Adding railway management system

We want to include all the things of our country in this system so that crime will be decreased because of the fingerprint of a person and make an easier life for a person.

In fact, our mission is, “ONE SYSTEM ALL SOLUTION”.

APPENDICES

Appendix A

Project Reflection

For making our project successful, we are working hard since for months. We have tried our best for making “Online Voting Management System” for our country. It is and web-based Application.

Appendix B

Abbreviations and acronyms

UX: User Experience

PHP: Hypertext Preprocessor

HTML: Hypertext Markup Language

CSS: Cascading Style Sheets

NID: National Identity

EC: Election Candidate

ECA: Election Commission Authority

ESS: Election Station Supervisor

EVM: Electronic Voting Machine

SMS: Short Message Service

AJAX: Asynchronous JavaScript and XML

XAMPP: Cross-platform (X), Apache, Mysql, PHP and Perl

OTP: One-Time Password

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