

Online Voting System

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

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Project titled “**Online Voting System**”, submitted by Anika Doula Refa (181-15-952) 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 *06/01/2022*.

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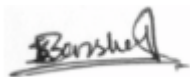
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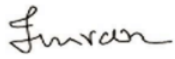
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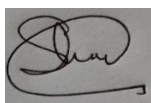
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I hereby declare that, this project has been done by me under the supervision of **Sharmin Akter, Lecturer Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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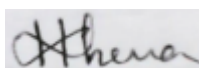
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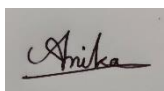
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Finally, I must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The Project is for the hazard loose and person orientated Online Voting System. The Online Voting gadget is made for the humans of the use living round the arena and desires to vote for his or her representative. The election may be performed in approaches the paper poll election and the automatic poll elections. The computerized poll elections are referred to as the digital vote casting. The on-line vote casting gadget is especially evolved and the net polling gadget may be changed with the aid of using as it should be and without delay vote casting on line and instant results. The on-line vote casting gadget is finished with the aid of using the net so it may be referred to as the Internet Voting. The current gadget is guide and the paper primarily based totally balloting that is voted on paper and counted manually. The digital tabulation brings new type of balloting gadget wherein the digital playing cards with all applicant's image is marked manually and this will depend electronically. The digital balloting structures at the moment are differing types referred to as the punch card, mark feel and the virtual pen balloting structures. The Electronic Ballot Marker makes the voter greater smooth to vote with the aid of using supplying the picks at the show to vote gift at the digital system. The direct recording digital balloting system is one that offers the show that may be begin whilst the voter touches the show includes the mechanical and electro optical buttons, software program that accepts the vote and possesses a photo or image at the show. The digital ballots are linked with the critical ballot structures which without delay be given and get the up-to-date document of all ballots. The critical ballot gadget applies the Precinct depend approach which calculates the all votes from the ballots gift at polling centers. The effects are immediate.

NET for open-source databases and networking channels, developing CSS, Ajax, JavaScript, Canvas JS, MVC. This project is demanding, creating so many safety concerns that it must be managed.

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CHAPTER 1

Introduction

1.1 Introduction

A web-based application is the "online voting system." There is an 'admin panel' and a 'voting system' in this project. To begin, admins must enter their username and password into the 'admin panel.' Candidates list, view candidate list, add candidate list, voter's list, view voters, add voters, result report, and user are all available after logging in. The user can add the candidate person after login into the admin panel. The administrator can add the candidates who are running in the election here. Admin will be able to check how many candidates are present, and new applicants will be able to add their names to the list of candidates. The administrator will be able to add each voter to the voter list straight from this page. The number of voters, the number of voters who have voted, and the number of voters who have not yet voted are all shown on the admin panel. When the admin activates all of the voters' accounts, only voters will be allowed to vote. All voters' passwords will be generated by the administrator. In all of the polls, the number of votes received by the candidates is shown in the results report. There are admins and co-admins in the user choices who will have complete power over this admin panel. The admin panel of the online voting system will be logged out after clicking the logout option in the admin panel. They must first login using an ID and password after becoming a voter in order to vote. They will be able to see how many candidates are running for election in which locations after logging in, and each voter will be able to vote for their preferred candidate. After casting a vote, a voter will be automatically logged out, and they will not be able to vote again.

1.2 Motivation

People in today's world are making significant progress. Everyone is learning how to use new information technology, and there are numerous advanced information technologies being discovered. We've all been reliant on the internet throughout the Corona pandemic. As a result, everyone is now meeting all of their wants via the internet. People in today's world are making significant progress. Because of the utilization of this online education, college, university, and workplace tasks are no longer behind schedule. For many

vocations, new online platforms are being developed. Our online voting system is an incredible platform. Where a voter can vote for his preferred candidate from the comfort of his own home. All people of the country who are of voting age will be able to cast their votes peacefully and fairly through this online voting system initiative. They can vote for whichever candidate they like on either side. As a result, time will be saved, stress will be lessened, and voting will be more equitable. There is no possibility of fraud or theft.

1.3 Objective

Ordinary folks in our country go to voting booths to cast their votes during elections. Many times, they are unable to correctly cast their votes. I'm working on an online voting system for this. It will offer a wide range of services.

Through our online voting method, you can get the following benefits:

- Every citizen will be able to vote online simply by looking up their name on the voter list.
- In this project, we've provided a simple mechanism for people to vote. Voters can easily vote for their preferred candidate.
- Getting to the polls is not an issue.
- At a predetermined moment, the administrator will activate the voting mechanism. After the voting period has ended, each voter will cast their valued vote without delay.
- During the voting, we will be able to monitor the percentage of votes cast in this online system. On the contrary, we are unable to view the percentage of votes cast during the voting process.

Simply put, developing an internet voting platform where all voters at home can vote for their preferred candidate. Each voter will be able to vote by logging in with their personal ID and password. It's a data management system-based online application. We keep everything private here so that no one outside of the administration can view it. This strategy will save you time and effort. This is a fair election selection procedure. Through this online way, we are attempting to deliver the best from all areas in order to assist all citizens. I'm putting in a lot of effort to create a great online voting system. We can apply it in our Country's future

elections.

1.4 Expected Outcomes

In the sphere of information technology, Bangladesh is making significant progress. Various government programs, as well as youth initiatives and efforts, are bringing about this transformation. Through their hands, the usage of smartphones and the internet is growing across the country. Different sectors of the country are fast changing as a result of this. So, through this 'online voting system' project, we will learn about a new technology that will be beneficial to our country's population. Due to polling site fraud, many citizens are unable to cast their ballots. Votes are frequently stolen. A voter will be able to vote for the candidate of his choice while sitting at home thanks to this project. And you may only vote once. We may save time here by using an online voting mechanism. The role of the administrator is to be able to count the votes in a very attractive manner using this system. The role of the administrator is to be able to count the votes in a very attractive manner using this technology. By determining how many votes the victorious candidate received among the selected candidates, the administrator will be able to publish the results.

1.5 Report Layout

The study representation as well as the entire report were discussed in this area of our project. The first chapter explains how this system works, why I chose this topic for our project, what the project's purpose is, and what the results are. The project's introduction, objectives, motivation, intended outcome, and report layout are all included in the first chapter. Project Introduction, Related Works, Comparative Studies, Problem Scope, and Project Challenges are all covered in the second part of this chapter. In the third chapter, you will learn about Business Process Modeling, Requirement Collection and Analysis, Use Case Model and Description, Logical Data Model, and Design Requirement. Design Specification is the fourth chapter. The design standards for our application, including front-end design, back-end design, interaction design, and user experience, as well as implementation requirements, are outlined in this chapter. Database Implementation, Front-end Design, Interactions, Testing Implementation, and Test Results and Reports are all addressed in this chapter's fifth chapter. I discuss the impact on society, the environment, and sustainability in the sixth chapter. This chapter covers the following topics: Social

Impact, Environmental Impact, Ethical Aspects, and Sustainability Plan. Then, in my seventh chapter, we'll talk about the conclusion and the scope of future research.

CHAPTER 2

Background

2.1 Introduction

As citizens of Bangladesh, each of us has many dreams. We want to elect the right person as the Prime Minister of our country. Choosing the right candidate is very important for running a country smoothly and peacefully. And a proper selection system is very necessary to select the right team. I developed the online voting mechanism with this in mind. I believe it can provide the gift of a fair election system with this online voting technology. I am hopeful that the online voting mechanism will dispel the public's mistrust of the voting system in our country. In this project, A voter can use his or her voting privilege online in the "ONLINE VOTING SYSTEM" without any difficulties. To register yourself or herself, he or she must complete out a registration form. The DATABASE, which already has all of the voter's information, checks all of the entries. If all of the entries are valid, the voter is issued a USER ID and PASSWORD, which he or she can use to cast his or her vote. If the conditions are incorrect, the entry will be deleted.

2.2 Related Work

I opted to use HTML, CSS, PHP, MYSQL, JavaScript to build our website. However, I must first have a thorough understanding of HTML and CSS. HTML CSS actually aids us in comprehending how to create and implement various. I had a good understanding of HTML and CSS. JavaScript toolkit for creating user interfaces and user components that is free and open-source. Express PHP is a back-end application tool The backend of popular development stacks like MEAN, MERN, and MEVN is Express, which is paired with a MYSQL database software and a HTML front-end framework. This project will make use of listed technology. MYSQL 4.8.5 is the database, FRAMWORK for LARAVEL, Bootstrap, HTML, CSS, Java Script.

2.3 Comparative Analysis

As we previously stated, public trust in Bangladesh's voting system and the Election Commission has eroded significantly. Because it goes without saying that our country lacks a fair electoral system. As a result, I believe that using my web application, i.e., an online voting system, I can organize voting in a fair manner. It is also feasible to avoid the potential of vote fraud in the election by doing so. This web application is what I'm using, and we've done everything we can to make it as user-friendly as possible. The project is about an online voting system, and it has two levels of users: Administrator Level and User Level and Voter Participation.

2.4 Scope of the Problem

- Bangladesh's vote percentage will rise as a result of this approach.
- If high security is used, there is a chance that there will be fewer fake votes.
- Utilized two distinct servers
- There is no option to block the fraudster on this website.
- Advanced Technology: - It is a progressed innovation utilized presently a day. It increments the E information of the clients which is exceptionally vital for current era.
- Internet: - It is an internet office and subsequently exceptionally valuable for the clients. Voters Can vote from any Where at any time Bangladesh.
- E- Mails: - Race COMMISSION OF Daffodil International University can send the blunder report to a specific client in the event that he/ she entered wrong information.

2.5 Challenges

I ran into a number of problems while working on this project. As a front end, I used HTML, CSS, and Java Script, and as a back end, I used Raw PHP. As a database, I used MySQL. This endeavor has presented me with a number of significant obstacles. I've

worked on the project for a while now. For example, a voter can only use his or her login ID once. I did not provide a way for a voter to cast a second ballot. As a result, I have no opportunity of casting a fictitious vote in this initiative. For the candidates running in the election, I've created several categories. Voters will be able to vote for the candidate of their choosing through this system.

I'm sure that was the most difficult aspect of this job for us.

CHAPTER 3

Requirement Specification

3.1 Business Process Modeling

The workflow of a system is represented using business process modeling. In a nutshell, BPM refers to the graphical user interface (GUI) of system operations that reveals prospective improvements. Flowcharts, data-flow diagrams, and other GUI approaches can be used to implement BPM. I've used the business process model to improve the system's path. Using BPM in my project has resulted in a more efficient and productive output. The mapping and sub-processing to their layer are part of the business-to-business procedures. A business process model describes how activities are carried out in order to achieve a company's goals. Based on the model's projected purpose, this model will remain an abstraction. It is possible to determine the business process workflow or collaboration. Its can be built on a variety of levels.

3.2 Requirement Collection and Analysis

- **User:** Users can access the page simply by logging in. He or she will then be allowed to vote for his preferred candidate. Use an Internet Browser with ease. He or she must have a basic understanding of the voting mechanism. He must also have a decent understanding of English.
- **Admin:** In our project, the admin panel will serve as the Election Commission. Only those voters who have been given permission to vote by the admin panel will be able to do so. The admin panel will be able to save each voter's information in its database. Any voter information can be checked and sorted at any moment by the administrator.
- **Registration:** In order to use our system, users must first register. The administrator will be able to keep their track and other privileges. As a result, in order to enjoy all of the services offered by our project, users must first register.
- **Login failure:** An error notice shows if no user gives the information.

3.3 Use Case Modeling and Description

The communication between machine users and the software is depicted in the case schedule. With the login option, the user can search the application. As a new user, you must first log in or enter the device. Only the system's major feature is shown in the use case. Clients either participate or do not participate. The following are the characteristics of the case:

- User Registration.
- Login respectively.
- Admin give access to the user.
- Admin add new Candide and Voters.
- Admin observes all the activities.
- User vote his or her own chooses which provide in our system.

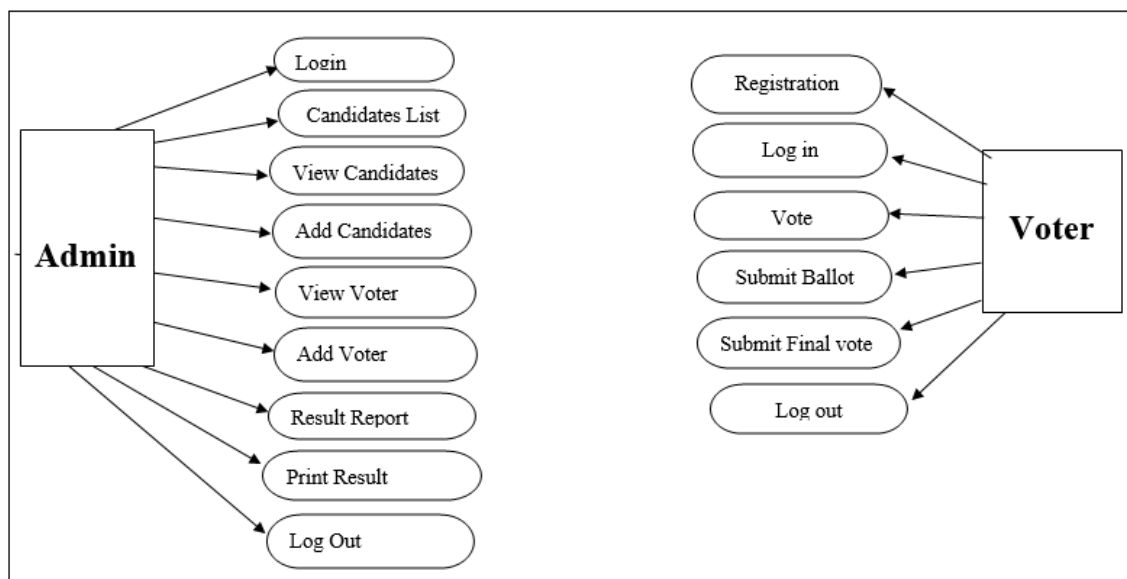


Figure 3.1: Use Case Diagram

3.4 Logical Data Model

Using a database dictionary and crossover table, you may find the attributes and links of database items. These data points are taken into consideration. The initial unique user record is kept and is linked to the data module. The admin panel and voter login accounts are linked.

3.4.1 The ER Diagram

Entity Relationship Diagram (ERD) or Entity Relationship Diagram (ERD) is a diagram that shows the relationship between entity sets contained in a database. In other words, ER diagrams aid in the explanation of database logical structure. Entities, attributes, and relationships are the three main notions that ER diagrams are built on Rectangles are used to represent entities, ovals are used to describe characteristics, and diamond shapes are used to show relationships in ER Diagrams. In our Online Voting System:

The ‘Admin Panel’ is in charge of voter registration. If necessary, the Bangladesh Election Commission might modify the information at any moment. Voter registration is based on the information entered by the user. Each voter is given their own ‘Id’ and ‘Password’.

After logging in and inputting the ‘Id’ and ‘Password’, the voter can cast their vote. Every voter's information is stored in the DATABASE. Every user's information is displayed in the database.

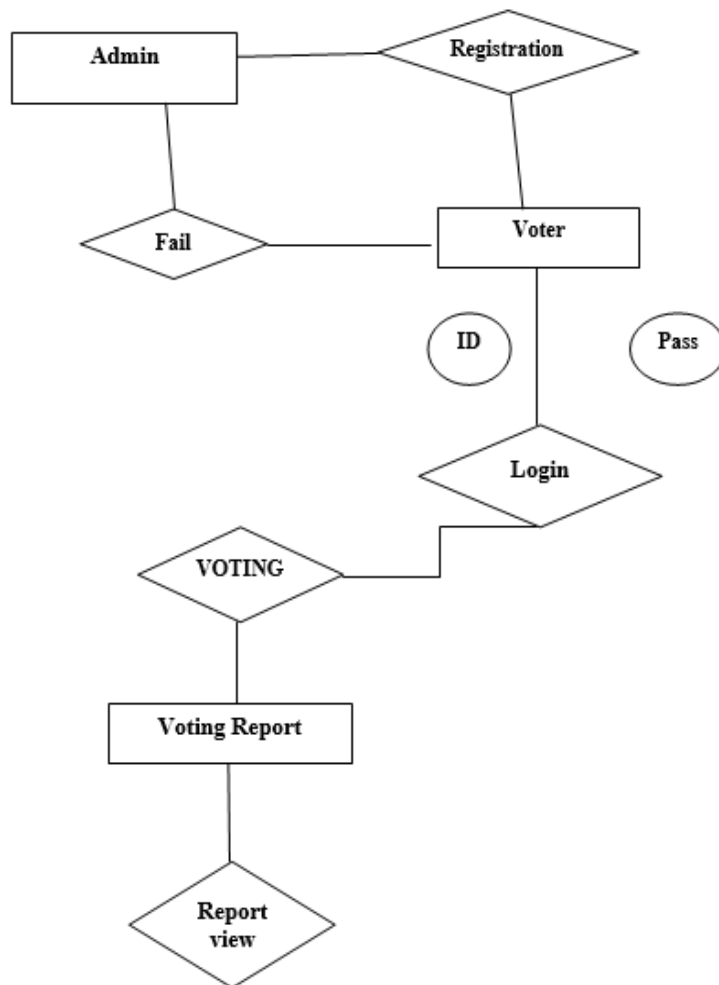


Figure 3.2: ER Diagram

3.5 Design Requirements

Architecture looks to be the stage, based on demand and construction needs. Software architecture comprises of three technical activities: design, coding, performance, and voting system, after analysis and sound parameters have been set. Software design and verification necessitate these activities. Design activities are crucial at this stage since decisions affect the program's success and ease of execution. All of these aspects converge on performance, efficiency, and management in the end. Without a question, designing is the most efficient approach for accurately translating customer needs into a finished program or device. The architectural environment is great for encouraging exceptional performance. A technique for

translating requirements into software representations is computational analysis. There are two stages to the curriculum. There are Use Case Diagram and ER Diagram.

CHAPTER 4

Design Specification

4.1 Front-end Design

HTML, CSS, React Js, and other front-end elements are included. It creates basic views for each state in my project, and when my data changes, react updates and creates the appropriate component. The statement view makes troubleshooting and prediction much easier. Each component of a multi-component response application is built to generate a compact, reusable HTML element. It must have a GUI that assists employees that are not from IT history.

- Scalability and extensibility.
- Flexibility.
- Robustness.
- according to the enterprise requirement and the tradition.
- ought to provide top notch reporting features with excellent printing support.
- Platform independent.
- clean to debug and maintain.
- occasion driven programming facility.
- front give up should help some popular again quit like MS get entry to.

4.2 Back-end Design

Simply said, it's a platform-independent framework for free JavaScript and open-source programming that allows users to create network programs quickly and efficiently. On Chrome's V8 JavaScript motor, this is a JS runtime. The events that occur within my software define how it flows. Object-Oriented Programming (OOP) is a programming model in which the program directs the sequence of events. An event listener is a piece of code that monitors certain events and, if it detects the event, calls a callback function or procedure.

In this Back-End:

- Multiple user assist.
- Efficient records dealing with.
- Offer inherent functions for security.
- Efficient facts retrieval and maintenance.
- Saved processes.
- Reputation.
- Operating system like minded.
- Easy to put in.
- Various drivers ought to be available.
- Easy to implant with the front-quit.

4.3 Interaction Design and UX

People are becoming more accustomed to working with computers for a variety of tasks, including sensitive operations such as shopping and home banking, and online voting systems allow people to vote from a location other than their customary residence, which helps to reduce absenteeism. Definition of the issue the process of voting/polling by registered voters is quite inconvenient. There have been numerous reports of missing data in voter registration files. Unregistered voters may also show up at polling stations as "Dead Voters" in order to participate in the voting process. Malicious polling place clerks and officers-in-charge continue to tamper with the results numbers even after voters have cast their ballots. Such situations can be avoided by requiring voters to complete the assignment online utilizing the Online Voting System (OVS). Voters can vote from anywhere in the world, and they are not need to travel during election time if they are abroad.

4.4 Implementation Requirements

The most destinations of framework for online voting System are:

The goal of the online voting framework is to assist organizations in automating the current system's total manual preparation. The system should be able to support a multi-user environment. The system should be fully automated. The system should have concrete security features such as creating customers and disbursing advantages to those who use the system. The system should be able to store all of the client's detailed descriptions as well as all of the nuanced features of the services offered by the client business. Various yields should be available online at all times. The system should be able to manage extremely large amounts of data. This project will be a PHP-based web application with a user interface.

- Database Development (My SQL)
- Design of the Form (HTML 4.0)
- Programming (PHP)
- Research and development (XAMP SERVER)
- Reporting Software (Data Report)

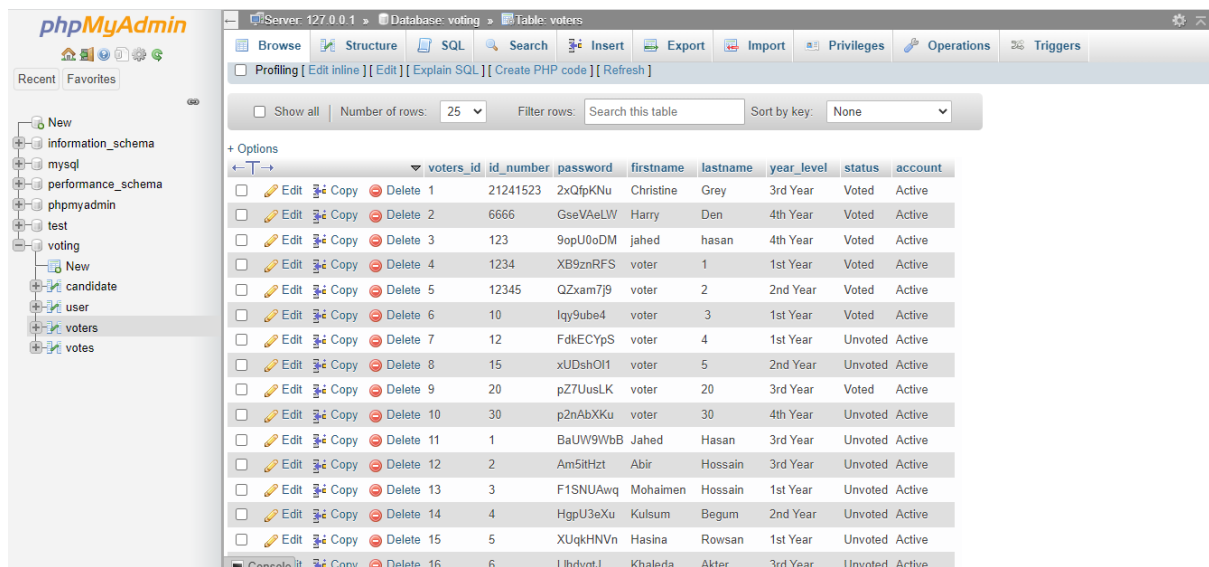
ELIGIBILITY REQUIREMENTS: The BANGLADESH ELECTION COMMISSION is in charge of voter registration. The Bangladesh Election Commission reserves the right to change the information at any time if necessary. The information submitted by the user is used to register voters. Each voter receives a unique ID and password. The voter can vote after logging in and entering their ID and PASSWORD. The DATABASE contains the details of every voter. In the database, every user's information is visible.

CHAPTER 5

Implementation and Testing

5.1 Implementation of Database

Databases and tables are mostly used to dynamically load data. PHP and MYSQL were used to build the backend. Node JS is a back-end JavaScript runtime environment that runs JavaScript code outside of a web browser. It is open source and cross-platform. Node JS is used by developers to create JavaScript command line tools and server-side scripting. The use of server-side scripting aids in the creation of dynamic web page content. MYSQL was also used. MYSQL is a popular database management system. It's a MYSQL database that focuses on documents.



	voters_id	id_number	password	firstname	lastname	year_level	status	account
☐	1	21241523	2xQfpKNU	Christine	Grey	3rd Year	Voted	Active
☐	2	6666	GseVAeLW	Harry	Den	4th Year	Voted	Active
☐	3	123	9opU0oDM	jahed	hasan	4th Year	Voted	Active
☐	4	1234	XB9znRFS	voter	1	1st Year	Voted	Active
☐	5	12345	QZxam7J9	voter	2	2nd Year	Voted	Active
☐	6	10	lqy9ube4	voter	3	1st Year	Voted	Active
☐	7	12	FdkECYpS	voter	4	1st Year	Unvoted	Active
☐	8	15	xUDshOI1	voter	5	2nd Year	Unvoted	Active
☐	9	20	pZ7UusLK	voter	20	3rd Year	Voted	Active
☐	10	30	p2nAbXKu	voter	30	4th Year	Unvoted	Active
☐	11	1	BaUW9WbB	Jahed	Hasan	3rd Year	Unvoted	Active
☐	12	2	Am5itHzt	Abir	Hossain	3rd Year	Unvoted	Active
☐	13	3	F1SNUAwq	Mohaimen	Hossain	1st Year	Unvoted	Active
☐	14	4	HgpU3eXu	Kulsum	Begum	2nd Year	Unvoted	Active
☐	15	5	XUqkHNVn	Hasina	Rowshan	1st Year	Unvoted	Active
☐	16	6	LlhdvotJ	Khaleda	Akter	3rd Year	Unvoted	Active

Figure 5.1: Voters Dataset Page

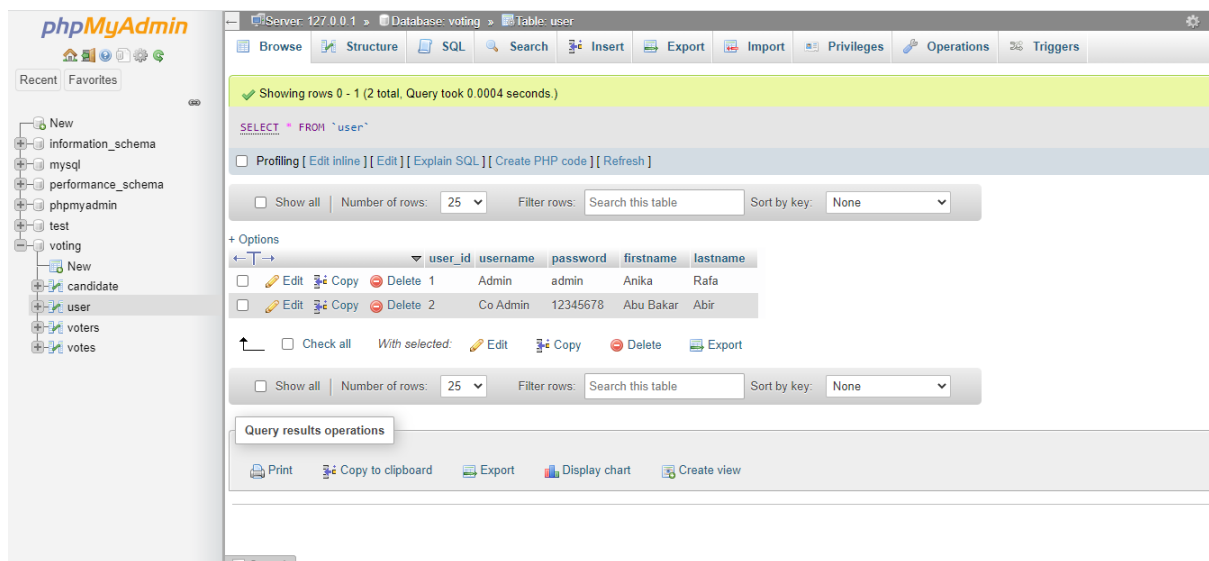


Figure 5.2: Users Dataset Page

5.2 Implementation of Front-end Design

The front-end structure appears to be referred to as consumer-side computing. I'm doing front-end design work with HTML and CSS. Someone who intuitively recognizes and connects with them. The problem with front development is that it demands the artist to update the software or procedures for developing a front page on a regular basis in order to understand that he or she is always learning about the world. The software concept's purpose is to ensure that customers can easily and accurately perceive apps on websites.

Here are some photos of our project:

Online Voting Sytem



Log In

ID No.

Password

Login

Note:

- ১। ৮ বছর এর নিচে কেউ ভোট দিতে পারবেন না।
২. একজন ভোটার ১ বারই ভোট দিতে পারবেন ২য় বার ভোট দিতে পারবেন না।
৩. আপনার পছন্দের প্রার্থীকে ভোট দিয়েছেন কিনা ভালোভাবে দেখে নিন।

Figure 5.3: Voter Login page

Online Voting Sytem - Admin Panel



Admin Log In

Username

Password

Login

Figure 5.4: Admin Panel Login Page

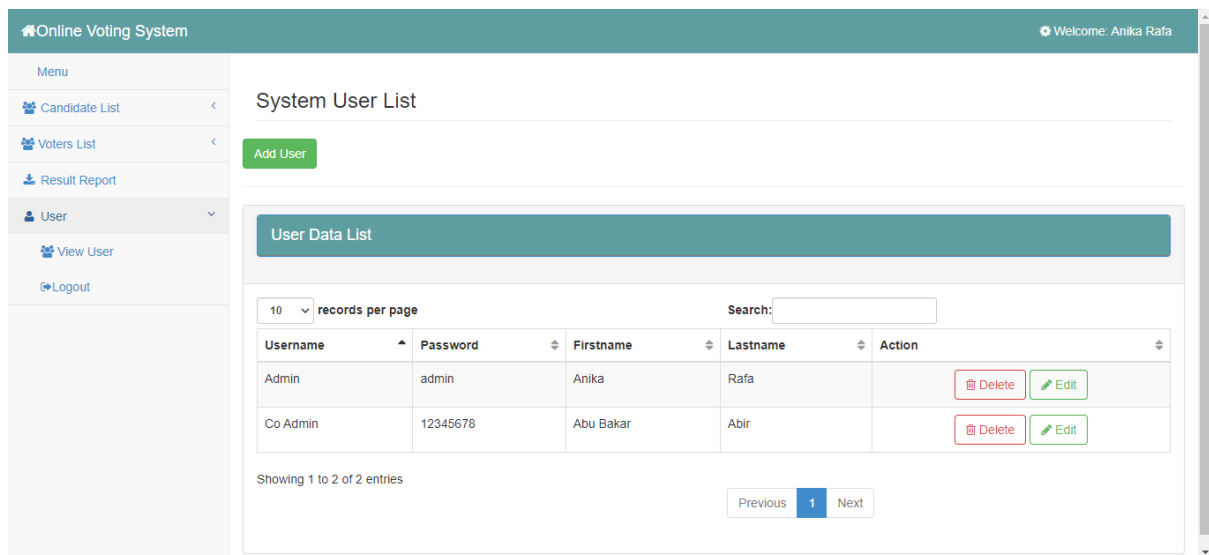


Figure 5.5: Admin Panel Page (User)

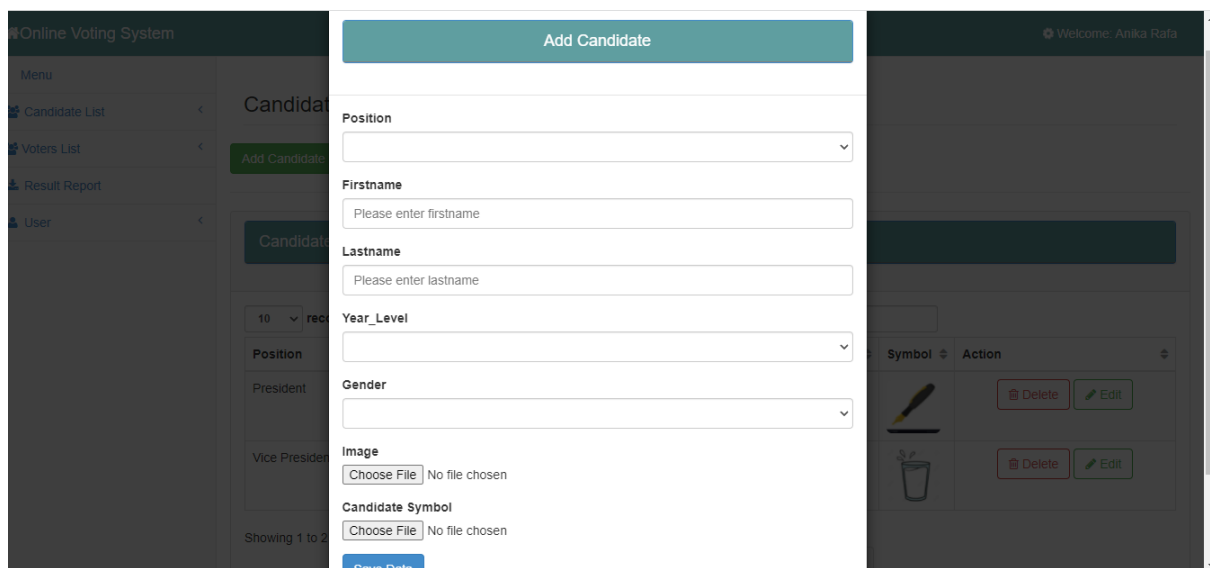


Figure 5.6: Add Candidate Page

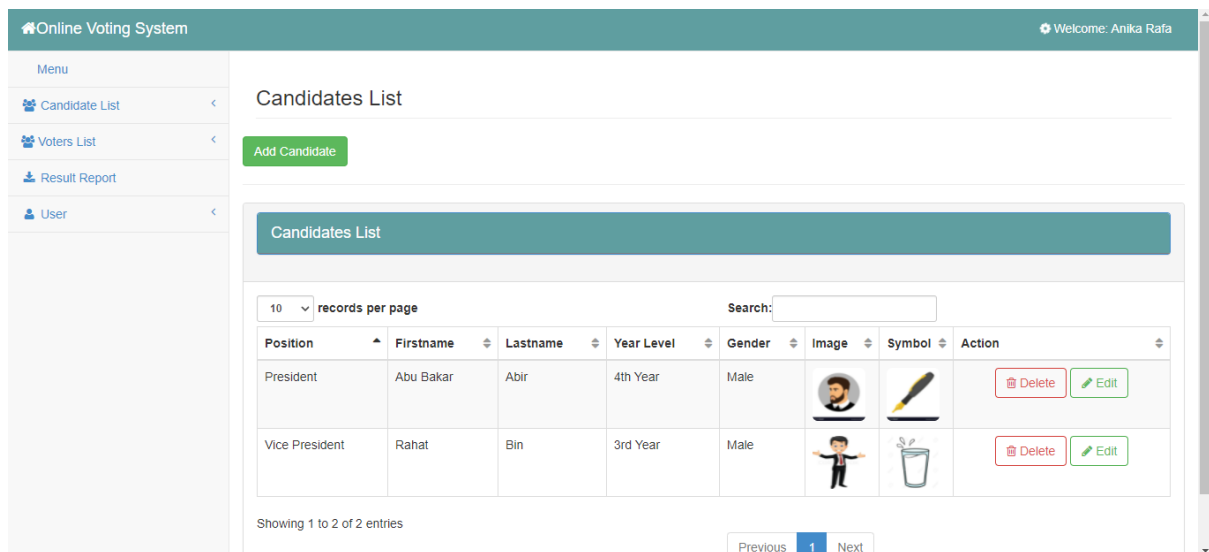


Figure 5.7: Candidates List Page

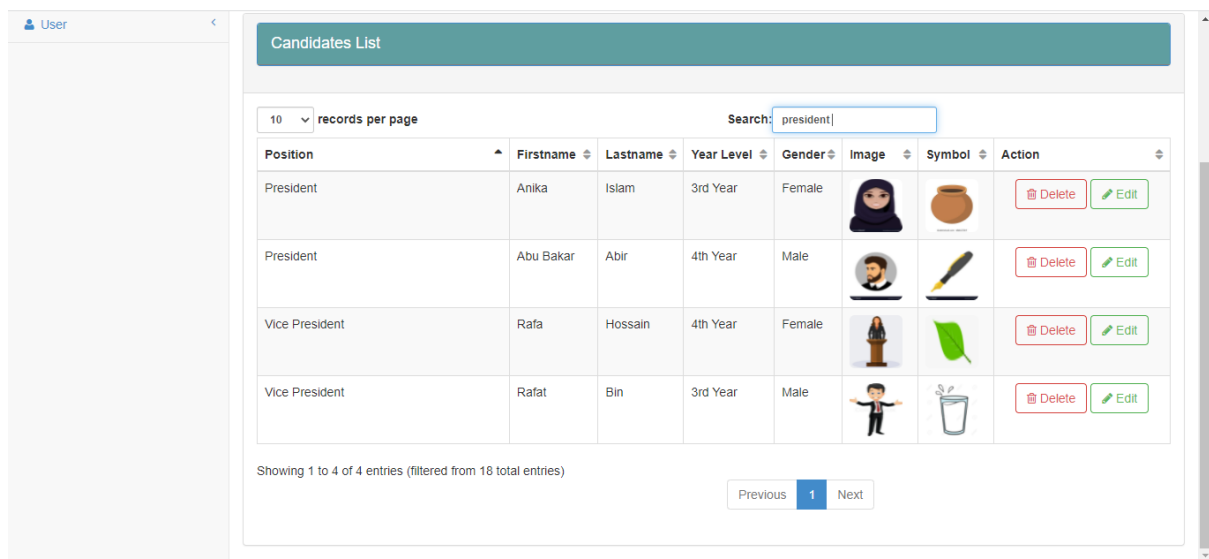


Figure 5.8: Candidates Category List Page (1)

Result Report	Candidates List						
User	10 records per page Search: General						
Position	Firstname	Lastname	Year Level	Gender	Image	Symbol	Action
Assistant General Secretary	Mukta	Akter	3rd Year	Female			Delete Edit
Assistant General Secretary	Rana	Islam	2nd Year	Male			Delete Edit
General Secretary	Rozy	Akter	3rd Year	Female			Delete Edit
General Secretary	Tanvir	Hossain	4th Year	Male			Delete Edit
Showing 1 to 4 of 4 entries (filtered from 18 total entries)							
Previous 1 Next							

Figure 5.9: Candidates Category List Page (2)

User	Candidates List						
	10 records per page Search: secretary						
Position	Firstname	Lastname	Year Level	Gender	Image	Symbol	Action
Secretary, Culture	Umme	Kulum	2nd Year	Female			Delete Edit
Secretary, Culture	Abdullah	Hossain	4th Year	Male			Delete Edit
Secretary, International Affiars	Rbeya	Islam	3rd Year	Female			Delete Edit
Secretary, International Affiars	Nayma	Khatun	1st Year	Female			Delete Edit
Secretary, Literature	Rakim	Doula	2nd Year	Male			Delete Edit
Secretary, Literature	Asma	Hossain	4th Year	Female			Delete Edit

Figure 5.10: Candidates Category List Page (3)

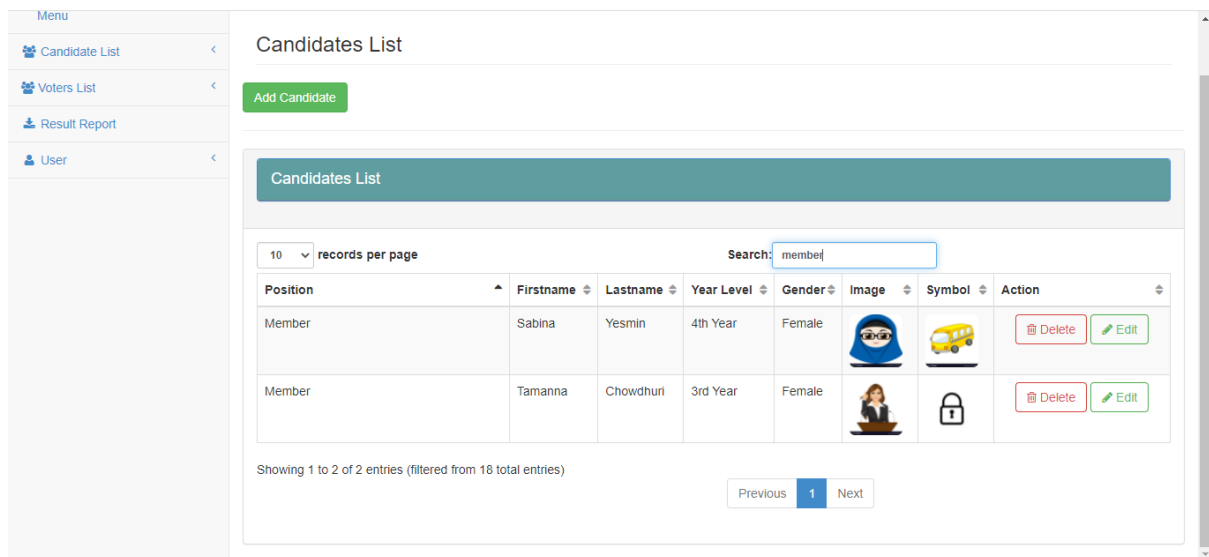


Figure 5.11: Candidates Category List Page (4)

Online Voting System

Registration

Please Enter the Detail Needed Below

ID Number

Password

[Generate](#)

Firstname

Lastname

Year_Level

[Save Data](#)

Figure 5.12: Voter registration Or Add voter page

Online Voting System

Welcome: Anika Rafa

Menu

Candidate List

Voters List

View Voters

Add Voters

Result Report

User

Voters List

ALL Voters (19)

Voted(7)

Unvoted(12)

Generate Voters Password

Activate All Voters Account

Import Data (csv excel file)

Add Voters

Voters List

10 records per page

Search:

ID Number	Password	Name	Year Level	Status	Account
1	BaUW9WbB	Jahed Hasan	3rd Year	Unvoted	Active
2	Am5itHzt	Abir Hossain	3rd Year	Unvoted	Active
3	F1SNUAwq	Mohaimen Hossain	1st Year	Unvoted	Active
4	HgpU3eXu	Kulsum Begum	2nd Year	Unvoted	Active
5	XLinkHNVn	Hasina Rowsan	1st Year	Unvoted	Active

Figure 5.13: Voter List Page

Voters List

10 records per page

Search:

Name	ID_Number	Password	Year_Level	Status
Christine Grey	21241523	2xQfpKNU	3rd Year	Voted
Harry Den	6666	GseVAeLW	4th Year	Voted
jahed hasan	123	9opU0oDM	4th Year	Voted
voter 2	12345	QZxam7j9	2nd Year	Voted
voter 20	20	pZ7UusLK	3rd Year	Voted
voter 3	10	lqy9ube4	1st Year	Voted
voter 1	1234	XB9znRFS	1st Year	Voted

Showing 1 to 7 of 7 entries

Previous

1

Next

Figure 5.14: Voter List Page (next page)

Voters List					
10	records per page	Search:			
Name	ID_Number	Password	Year_Level	Status	
Abir Hossain	2	Am5itHzt	3rd Year	Unvoted	
Anika Tabassum	7	6ljsOCmQ	1st Year	Unvoted	
Arafat Hossain	8	QSo1Qn3B	3rd Year	Unvoted	
Hasina Rowsan	5	XUqkHNVn	1st Year	Unvoted	
Jahed Hasan	1	BaUW9WbB	3rd Year	Unvoted	
Khaleda Akter	6	LihdvtJ	3rd Year	Unvoted	
Kulsum Begum	4	HgpU3eXu	2nd Year	Unvoted	
Mohaimen Hossain	3	F1SNUAwq	1st Year	Unvoted	
rahat bin rafiq	1234567	jkYmbqOG	4th Year	Unvoted	
voter 30	30	p2nAbXKu	4th Year	Unvoted	

Showing 1 to 10 of 12 entries

Figure 5.15: Unvoted Page

Online Voting System Welcome: voter 5

PRESIDENT



Abu Bakar Abir

☐

4th Year



Anika Islam

☐

3rd Year




VICE PRESIDENT



Rafat Bin

☐

3rd Year



Rafa Hossain

☐

4th Year




GENERAL SECRETARY



Tanvir Hossain

☐

4th Year



ASSISTANT GENERAL SECRETARY



Rana Islam

☐

2nd Year



Figure 5.16: Voting Page (1)

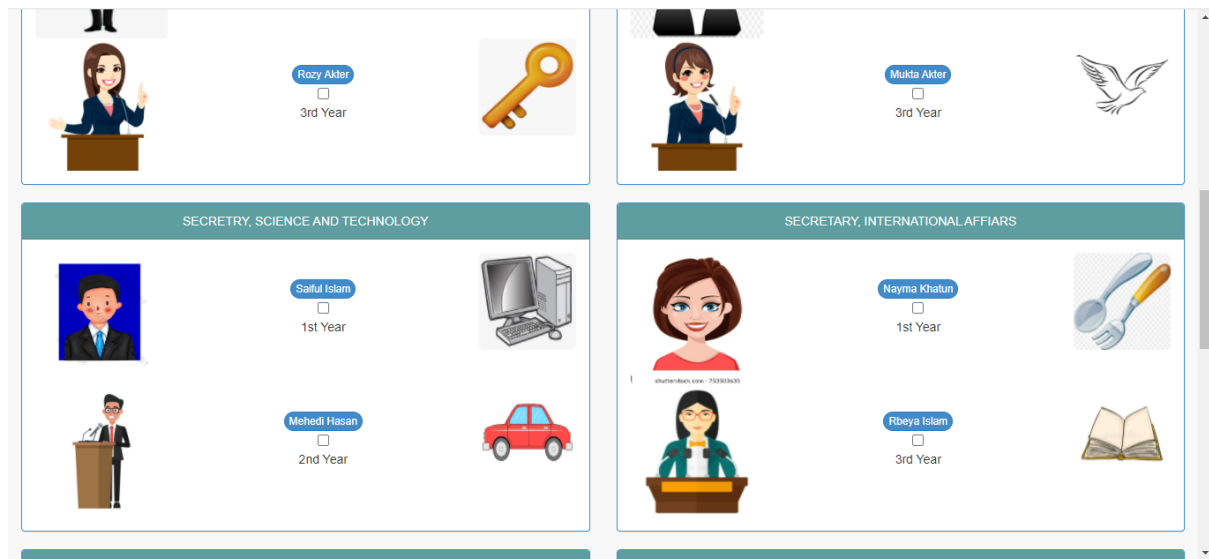


Figure 5.17: Voting Page (2)

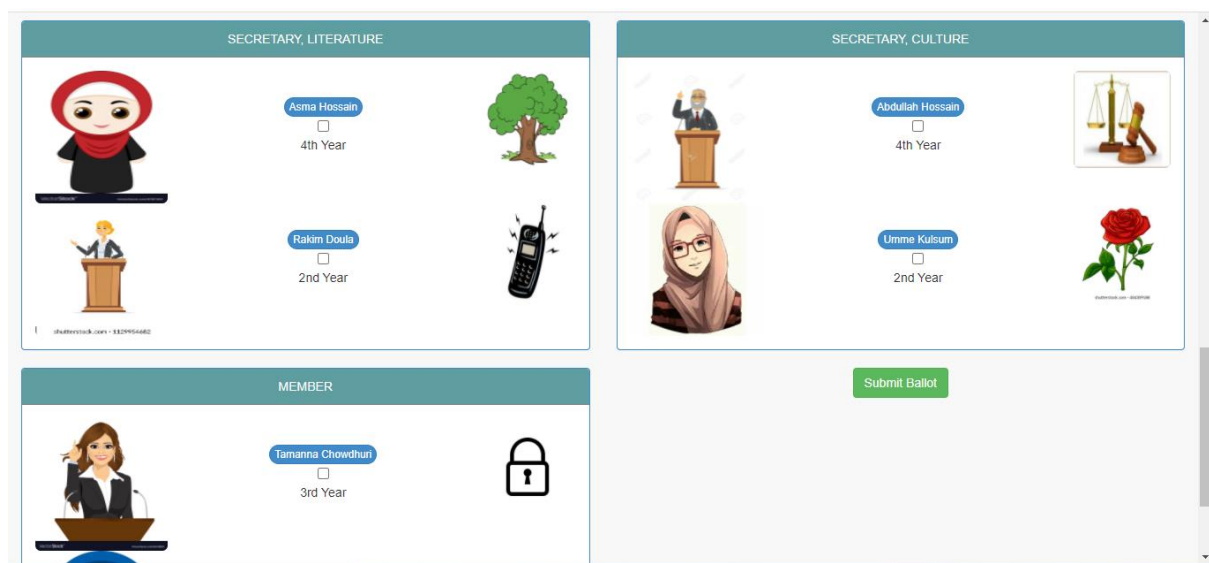


Figure 5.18: Voting Page (3)

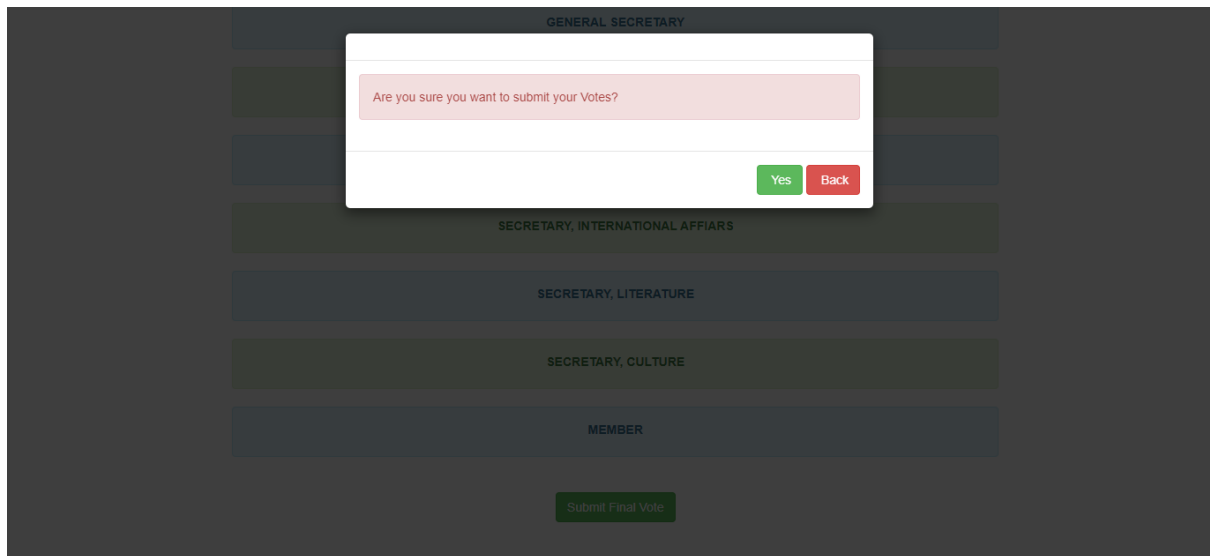


Figure 5.19: Voting Confirmation Page

Online Voting System Welcome: Anika Rafa

Menu

- Candidate List
- Voters List
- Result Report
- User

Result Report

---Sort by Position--- Sort Print

Candidate for President	Image	Symbol	Total
Abu Bakar Abir			0
Anika Islam			0

Candidate for Vice President	Image	Symbol	Total
Rafat Bin			1
Rafa Hossain			0

Figure 5.20: Result Page

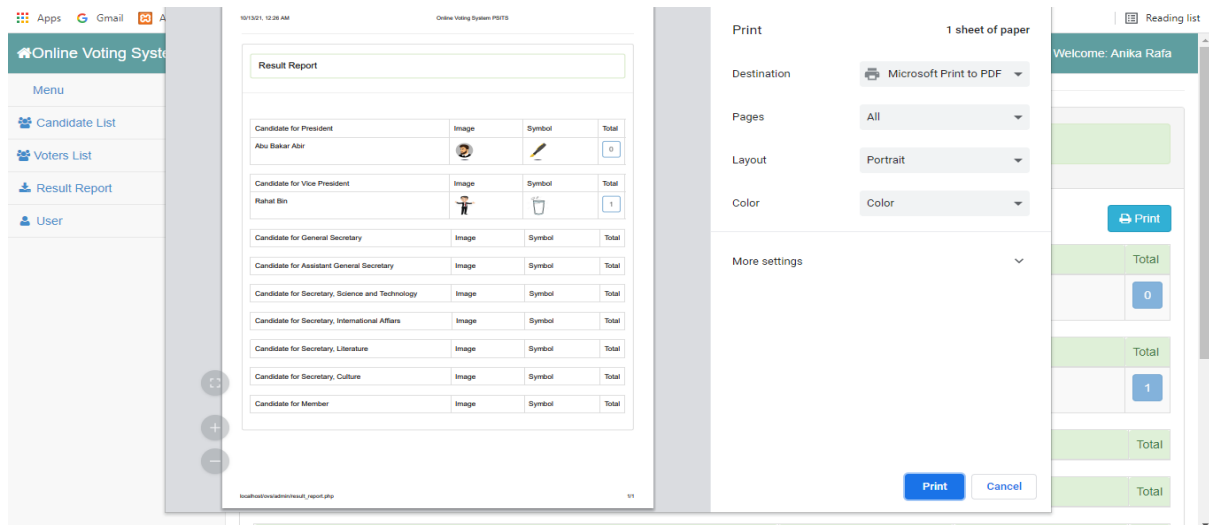


Figure 5.21: Result Print Page

5.3 Testing Implementation

Testing entails putting something to the test in order to ensure its quality. Testing is an essential component of any program or software. By testing our website, we are able to uncover flaws at an earlier stage and attempt to fix them. Every function of our website undergoes end-to-end testing to guarantee that it performs as planned. We also conducted load testing to evaluate the performance of our application. For this application, we also use regression testing. After fixing a bug in a functionality, a regression test is performed to test the entire application again. We also performed this to verify that our website had as few issues as possible.

5.4 Test Results and Reports

The following are some test cases and results from our application:

As an admin:

Test ID	Test Case Name	Test Process	Expected Outcome	Actual Outcome	Result
01	Login	Wrong Information	Not Registered	Not Logged In	Pass
02	Login	Correct Information	Registered Successfully	Log In Successfully	Pass
03	Candidate list	Correct Process	Worked Successfully	Worked Successfully	Pass
04	Candidate list	Correct Process	Worked Successfully	Worked Successfully	Pass
05	View Candidate	Correct Process	Worked Successfully	Worked Successfully	Pass
06	View Candidate	Wrong Process	Not Worked	Not Worked	Pass
07	Add Candidate	Correct Process	Worked Successfully	Worked Successfully	Pass
08	Add Candidate	Wrong Process	Not Worked	Not Worked	Pass
09	View Voter	Correct Process	Worked Successfully	Worked Successfully	Pass
10	View Voter	Wrong Process	Not Worked	Not Worked	Pass
11	Add Voter	Correct Process	Worked Successfully	Worked Successfully	Pass
12	Add Voter	Wrong Process	Not Worked	Not Worked	Pass
13	Result Report	Correct Process	Worked Successfully	Worked Successfully	Pass
14	Result Report	Wrong Process	Not Worked	Not Worked	Pass
15	Print Result	Correct	Worked	Worked	Pass

		Process	Successfully	Successfully	
16	Print Result	Wrong Process	Not Worked	Not Worked	Pass
17	Log Out	Correct Process	Worked Successfully	Worked Successfully	Pass

As a Voter:

Test ID	Test Case Name	Test Process	Expected Outcome	Actual Outcome	Result
01	Register	Wrong Information	Not Registered	Not Registered	Pass
02	Register	Correct Information	Registered Successfully	Registered Successfully	Pass
03	Log In	Correct Information	Log In Successfully	Log In Successfully	Pass
04	Log In	Wrong Information	Not Logged In	Not Logged In	Pass
05	Vote	Correct Process	Worked Successfully	Worked Successfully	Pass
06	Vote	Wrong Process	Not Worked	Not Worked	Pass
07	Submit Ballot	Correct Process	Worked Successfully	Worked Successfully	Pass
08	Submit Ballot	Wrong Process	Not Worked	Not Worked	Pass
09	Submit Final Vote	Correct Process	Worked Successfully	Worked Successfully	Pass
10	Submit Final Vote	Wrong Process	Not Worked	Not Worked	Pass
11	Log Out	Correct Process	Worked Successfully	Worked Successfully	Pass

CHAPTER 6

Impact on Society, Environment and Sustainability

6.1 Impact on Society

I'm attempting to create a website that will benefit our Bangladeshi nation. If we consider the social component that our system has developed, we can believe that society will accept our system or project favorably because it will benefit all voters. There are numerous benefits to using an online voting method. It's a quick and easy service. In terms of time, the online voting method is more efficient. It reduces paper effort and makes the job of the ELECTION COMMISSION easier. It is a more efficient voting system. As a result, the number of people who vote will increase considerably. Because the voter does not need to go to a polling location, it is straightforward to utilize. So, let us hope that it will have a positive impact on society and that the system will meet the needs of our users.

6.2 Impact on Environment

This system has no significant environmental impact because I'm working on software, or as I like to call it, a web app. Because I don't utilize any hardware, this system is purely software-based, and the web form is the only physical form I have. I can categorically claim that this method has neither a positive nor a negative impact on the environment. It is absolutely risk-free and safe to use.

6.3 Ethical Aspect

Transparency is a crucial component of good government. The management of software projects must be transparent in all aspects of their operations, as this will increase employee trust in the management team. Projects, on the other hand, are carried out only by management teams, and no one is aware of this. Workers occasionally raise concerns about project managers' questionable activities, while in other cases, staff are unclear about project scope since top management does not fully explain it. Confidential information incorporates rules, commitments, and restrictions that restrict access to information by a certain person or

area. Because he knows so much about ongoing projects, their time, their money, and the business's weaknesses and strengths, a development project manager must be a trustworthy individual. In certain cases, rival competitors force the management team to reveal crucial firm information. The software project coordinator must be dedicated to his work and his team. He is the person in charge of the software development team and is responsible for the whole implementation of their job. They must be devoted to each other through their subordinates and clients in order to accomplish all of this and achieve excellent results.

6.4 Sustainability Plan

The sustainability analysis will establish the project's relevance, acceptability, political expediency, viability, and adaptability. Financial analysis, risk analysis, communication and network determination, the operational plan, training, human resource development and capacity building, and environmental and community analysis are all used to determine the long-term viability of projects. To determine if the project is an independent firm, franchise, co-operative, joint venture, non-governmental or public entity, etc., funding must be researched and analyzed. A project must always explain the justification, demand and supply, expenses, expectations, or performance indicators that are all required for the project to qualify for funding. The project stipulates Demographic studies examine needs, revenues, hobbies, cultures, education, and other factors to determine affordability. The legal and regulatory framework encompasses licenses and permits, as well as a slew of other rules, regulations, regulations, regulations, regulatory requirements, and procedures that are required by law in order to carry out projects in this environment. Access to modern technology and systems, in particular, should be thoroughly reviewed for the project's ICT infrastructure.

CHAPTER 7

Conclusion and Future Scope

This section discusses our decision and conclusion. We discuss the scope of the future and how it may have been great.

7.1 Discussion and Conclusion

This online voting device will control the Voter's facts with the resource of the use of which voter can login and use his vote casting rights. The gadget will contain all abilities of voting machine. It provides the system for preserving voter's vote to each party and or not it's counted number average no. of votes of every birthday party. there's a DATABASE this is maintained with the useful resource of the use of the ELECTION COMMISSION OF DIU in which all of the names of voter with whole information are stored.

in this person who's above 18 year's check in his/her facts on the database and even as he/she want to vote he/she has to login with the resource of the use of his identity entification and password and can vote to any birthday celebration quality unmarried time. voting detail shop in database and the stop end result is displayed with the resource of the usage of calculation. by way of on-line vote casting machine percentage of balloting is increases. It decreases the price and time of vote casting process. it could be very easy to apply and its far range much less time ingesting. it is able to be very easy to debug.

7.2 Scope for the Further Developments

In the perspective of the future, we highlight certain upcoming features that will be available very soon. First, we'll create a section where administrators can continue to post queries.

- We'll be the use of the Python framework.
- The seek choice is greater advanced.
- Complete the paintings for contributors of the observe and project.
- More useful consumers.
- More requirements could be implemented.
- Protection might be higher than ever.

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