Final Project

Candidate Voting system

HArSimran Singh

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# Project Proposal

# Project Introduction and Overview

This project is based on the Candidate Voting System. In this ASP.net project there are two types of account one for admin and other for the voter. Admin can add, edit, delete, and access details of the candidates. Admin can also edit, delete, and access details of voters. Moreover, admin can delete votes and view voting history. Voters can vote for candidates. Also, new voters can signup for the application. Voters can add, edit, delete, and access details of their accounts. Only registered admin can register new admins.

# Project Specifications

## Project Goal

The main goal of this project is to implement an online web application using Asp.Net. The name of this web application will be “Candidate Voting System” In this application there is admin and voters. Admin can manage candidates by adding, editing, deleting, and checking details. Also, admin can edit, delete, and check details for various voters. Moreover, voters can add, edit, delete, and check details for candidates. They can vote for candidates. Admin can register new admin and new voters can register.

## Scope

The main goal of this application is to implement a Candidate Voting System online application. This project is for 4 weeks.

# Project Specifications

* Secure login and registration for the candidates
* Secure login and admin registration for admins
* Admin can add, edit, delete candidates
* Admin can manage the votes and voting transactions.
* Admin can edit, delete, and access details of voters.
* Voter can add new candidates, edit, delete, and access for candidates.
* Voters can vote for other candidates.

## Target Audience

The main target audience for this project will the people who are willing to take part in voting. Age group should be 18 plus.

# Project Plan

## Project Deliverables

|  |  |
| --- | --- |
| **Deliverable** | **Description** |
| Project Planning | This document. Introduces the project and elaborates its details and requirements. |
| Project Coding | The application being made. Marking will be based on the GUI, functionality, implementation, and testing. |
| Implementation Details | This document elaborates on the projects details as well as its analysis, design, and implementation. |
| Final Documentation and Report | This includes the final documentation of the project. |

## Resources Required

* Microsoft office, excel
* Identity framework
* Asp.Net framework
* Windows Operating System 10 64-bit Processors
* 8 GB or more RAM.

## Project Risks and Assumptions

* Project can take more time than estimation
* It is not feasible to perform all types of testing.
* One admin and one candidate will be registered by default

# Project Report

## Aim and Introduction

The project aims to introduce a Candidate Voting System web application which will help voters to vote freely.

# Analysis

### Functional and Non-Functional

The functional requirements of this project are divided into types. One for Admin, and one for Voter.

|  |  |
| --- | --- |
| **Users** | **Functional Requirements** |
| **Admin** | * Login/logout * Register new admin * Manage candidates * Manage Voters * Delete votes * View Voting Transaction |
| **Candidate** | * Login/logout * New Candidates can register themselves. * Voter can add new candidates, edit, delete, and check details of the existing ones. * Voters can vote for candidates. |

### Non-Functional

|  |  |
| --- | --- |
| **Operational** | * The system should able to run on all web browsers and accessible via mobiles |
| **Security** | * Only Administrators have full access to the system. * Only Voters have access to their accounts and the right to vote for candidates. |

# Client Review Form

My developer’s name: **Harsimran Singh**

This form is intended to let you review the communication skills of your developer for this assignment. Your review will partly count towards their final mark. Do not take into account technical skills.

Grading scale

You must grade your developer for each item listed in the tables below. 1 being the lowest, 5 the highest.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** |
| Strongly disagree | Disagree | Ok | Agree | **Strongly agree** |

Review your developer

|  |  |  |
| --- | --- | --- |
| Item | Grade | Comment |
| Communicated clearly and effectively | A | On time |
| Kept you informed of the progress | A++ | Yes |
| Met timelines | A | yes |
| Responded promptly to problems | B++ | Yes |
| Met overall project objectives | A | Yes |
| Was open to new ideas and suggestions | A | Yes |
| Was easy to work with | A | Yes, It is very easy to work |

## Comments

Provide any extra comments on your developer’s communication skills and professionalism.

He is very good and fulfil all the requirements

**Signed by Client**

|  |  |
| --- | --- |
| **Signature: Amritpal Singh** | **Date: 17/11/2021** |
| **Name: Amritpal Singh** | **Title: Final Project** |
| **Contact details (email/Tel):** **amritpal234@gmail.com** | |

Planning And Cost

## Project Tasks and Milestones

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project Stages | Major Activities | Week-1 | | | | Week-2 | | | | | | Week-3 | | | | | | | Week-4 | | | |
| Planning | Technology Research |  |  | 24hr |  | |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |
| First Meeting |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |
| Project Proposal and Documentation |  |  |  | 16hr | |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |
| Phase -1 | Database Design |  |  |  |  | |  |  | 21hr |  |  | |  |  |  |  |  |  | |  |  |  |
| User Interface Design |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |
| Phase-2 | Identity framework implementation |  |  |  |  | |  |  |  |  |  | | 23hr |  |  |  |  |  | |  |  |  |
| Admin Implementation |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |
| Candidate Implementation |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | | 15hr |  |  |
| Testing |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |
| Final Phase | Final Documentation |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |  |  | 12hr |

## Cost

|  |  |
| --- | --- |
| $ 27 per Hour | Total Cost 27 \* 111 = $2997.00 only |

# Wireframes

***Candidate page Graphical user interface, application, table

Description automatically generated***

***Login page Graphical user interface, application, Teams

Description automatically generated Register page Graphical user interface, application, Teams

Description automatically generated***

***Voters page Graphical user interface, application, table

Description automatically generated Voting Transection page Graphical user interface, application, email

Description automatically generated***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TC1 | | | |
| **Test Case Title** | | verify the launching of web app | | | |
| **Pre-Conditions** | | Browser the web app | | | |
| **Post-Conditions** | | Website should be launched successfully | | | |
| **Step No.** | **Test Step** | **Input Data** | **Expected Result** | **Actual Result** | **Test Step Result** |
| 1 | open [project](http://www.authordeus.azurewebsites.com) in Visual studio |  | website index page should open | As Expected | Pass |
| 2 | Close the Home page by clicking close button on browser |  | Website should close. | As Expected | Pass |
| 3 | Manually Launched website using localhost |  | website home page should open | As Expected | Pass |

# Testing

**Test Case 1**

**Test Case 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TC2 | | | |
| **Test Case Title** | | Verify login with valid username and password | | | |
| **Pre-Conditions** | | username and password are saved into the database | | | |
| **Post-Conditions** | | The user is validated with database and successfully login to the account. | | | |
| **Step No.** | **Test Step** | **Input Data** | **Expected Result** | **Actual Result** | **Test Step Result** |
| 1 | Launch web app in a new browser window |  | Login screen of the website should display. | As Expected | Pass |
| 2 | Enter valid User id and correct password | User: admin@votes.com  Password: 1qaz2wsX@ | Entered User Id should display in "User Id" field  Enter Password should be masked as "\*" | As Expected | Pass |
| 3 | Click the "Login" button |  | The home page should open and the user id should display at the top right side on the page. | As Expected | Pass |
| 4 | Enter valid User Id and incorrect Password | User: admin@votes.com  Password: 1qaz2wsX | Error Message should appear for an incorrect password. | As Expected | Pass |
| 5 | Enter Invalid User Id and correct password | User: ad@votes.com  Password: 1qaz2wsX@ | Error Message should appear for the incorrect User ID. | As Expected | Pass |
| 6 | Enter Invalid User Id and incorrect password | User: jim@vote.com  Password: 1qa | Error Message should appear for incorrect User ID and password | As Expected | Pass |

**Test Case 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | | TC3 | | | |
| **Priority** | | High | | | |
| **Test Case Title** | | Verify website Home Page interface | | | |
| **Pre-Conditions** | | Open website in a browser | | | |
| **Post-Conditions** | | The home page interface should correct and working correctly. | | | |
| **Step No.** | **Test Step** | **Input Data** | **Expected Result** | **Actual Result** | **Test Step Result** |
| 1 | Verify Home Page |  | should display all options | As Expected | Pass |
| 2 | Verify navigation bar |  | Following options should be available in the navigation bar   * Home * vote * Candidates * Voter Sign up * Login * Register Vote Admin | As expected | Pass |

# System Usability Testing

### Testing

**Tester 1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tester –1** | | **Answer Scale** | | | | |
| **No.** | **Question** | **Strongly Disagree (1)** | **Disagree (2)** | **Normal (3)** | **Agree (4)** | **Strongly Agree (5)** |
| 1 | I think that I would like to use this system frequently |  |  |  |  |  |
| 2 | I found the system complex |  |  |  |  |  |
| 3 | I thought the system was easy to use |  |  |  |  |  |
| 4 | I found the various functions in this system were well-integrated |  |  |  |  |  |
| 5 | I thought there was too much inconsistency in this system |  |  |  |  |  |
| 6 | I would imagine that most people would learn to use this system very quickly |  |  |  |  |  |
| 7 | I felt very confident using the system |  |  |  |  |  |

**Tester-2**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tester –2** | | **Answer Scale** | | | | |
| **No.** | **Question** | **Strongly Disagree (1)** | **Disagree (2)** | **Normal (3)** | **Agree (4)** | **Strongly Agree (5)** |
| 1 | I think that I would like to use this system frequently |  |  |  |  |  |
| 2 | I found the system complex |  |  |  |  |  |
| 3 | I thought the system was easy to use |  |  |  |  |  |
| 4 | I found the various functions in this system were well-integrated |  |  |  |  |  |
| 5 | I thought there was too much inconsistency in this system |  |  |  |  |  |
| 6 | I would imagine that most people would learn to use this system very quickly |  |  |  |  |  |
| 7 | I felt very confident using the system |  |  |  |  |  |

# Software Development Life Cycle

Diagram

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**Plan**

Planning is very important for start any project , I done planning about project in word file.

**Design**

Design a mock ups or wireframes about project like how your project will look like when it will be done

**Implement**

After the Mockup designs , I implement everything according to my initial planning.

**Test**

<Testing.docx>

[Usability Testing.docx](Usability%20Testing.docx)

***Final Design***

# Design

**Home Page**

This is the landing page of the web app. It consists- Home, vote, candidates, voter sign up, login, and register vote admin options on the navigation menu. Diagram

Description automatically generated

**Login Page**

This page helps the admin and voters to login to the app by using their valid credentials.

**Graphical user interface

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**Voter Signup Page**

With the help of this page new voters can signup for the application.

**Graphical user interface

Description automatically generated**

**Admin Registration Page**

With the help of this page admin can register new admin for the application.

Graphical user interface

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**Candidate Page Admin View**

With the help of this page admin can add new candidates and manage existing ones.

**Graphical user interface

Description automatically generated**

**Voters Page Admin View**

This Page highlights voters. Admin can edit, delete, and access their details.

Graphical user interface

Description automatically generated

**Vote Page Admin View**

With this page admin can delete all votes.

**Graphical user interface

Description automatically generated**

**Voting Transaction Page**

This page highlights the details of candidates and voters in the form of voting transactions.

A screenshot of a video game

Description automatically generated with medium confidence

**Votes Page Voter View**

With the help of this page voters can vote for candidates.

A picture containing diagram

Description automatically generated

**Candidate Page Voter View**

With the help of this page voters can add new candidates and manage existing ones.

Graphical user interface, website

Description automatically generated

# Risk Management Process

**Diagram

Description automatically generated**

## Step 1: Identify the Risk

The first step is to identify the risks that the business is exposed to in its operating environment. There are many different types of risks – legal risks, environmental risks, market risks, regulatory risks, and much more. It is important to identify as many of these risk factors as possible.

## Step 2: Analyze the Risk

Once a risk has been identified it needs to be analyzed. The scope of the risk must be determined. It is also important to understand the link between the risk and different factors within the organization.

## Step 3: Evaluate or Rank the Risk

Risks need to be ranked and prioritized. Most risk management solutions have different categories of risks, depending on the severity of the risk. A risk that may cause some inconvenience is rated lowly, risks that can result in catastrophic loss are rated the highest.

## Step 4: Treat the Risk

Every risk needs to be eliminated or contained as much as possible. This is done by connecting with the experts of the field to which the risk belongs.

## Step 5: Monitor and Review the Risk

Not all risks can be eliminated – some risks are always present. Market risks and environmental risks are just two examples of risks that always need to be monitored. Under manual systems monitoring happens through diligent employees.

**Thank You !**