**Module Title**

**Second Year Project**

**Assessment Weightage & Type**

**Second Year Project Final Report**

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**Title: E-VOTING**

I confirm that I understand my coursework needs to be submitted online via My Second Teacher under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

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Project Proposal: E-VOTING

# Introduction

The Voting Website project aims to develop a web application that facilitates democratic voting processes by providing a secure, transparent, and accessible platform for individuals to register as voters, securely log in, view candidate profiles, and cast their votes for preferred candidates. This proposal outlines the objectives, scope, deliverables, timeline, and resources required for the successful completion of the project.

# Objectives

- Develop a user-friendly interface for voter registration, login, and candidate profile display.

- Implement secure voting functionality to ensure the integrity and confidentiality of the voting process.

- Enhance accessibility and convenience by offering an online platform for democratic voting.

- Conduct thorough testing to validate the reliability, security, and functionality of the Voting Website.

- Provide documentation for the project, including technical specifications, user guides, and maintenance procedures.

# Scope

The scope of the project includes the following key components:

- Frontend Development: Design and implementation of HTML, CSS, and JavaScript files for the user interface.

- Backend Development: Development of server-side logic using Node.js and Express.js for handling registration, login, and voting functionalities.

- Database Management: Creation and management of a MySQL database to store voter information and candidate profiles.

- Security Measures: Implementation of encryption, authentication, and authorization mechanisms to ensure data security and user privacy.

- Testing Procedures: Conducting unit testing, integration testing, and user acceptance testing to validate the reliability and functionality of the Voting Website.

- Documentation: Creation of comprehensive documentation, including technical specifications, user guides, and maintenance procedures.

# Deliverables

The deliverables for the project include:

- Fully functional Voting Website with user registration, login, candidate profile display, and voting functionalities.

- Testing reports documenting the results of unit testing, integration testing, and user acceptance testing.

- Comprehensive documentation, including technical specifications, user guides, and maintenance procedures.

# Timeline

The project timeline is as follows:

- Week 1-2: Planning and Requirement Analysis

- Week 3-4: Frontend Development

- Week 5-6: Backend Development and Database Management

- Week 7-8: Security Implementation and Testing

- Week 9-10: Documentation and Finalization

# Resources

The resources required for the successful completion of the project include:

- Development Team: Frontend and backend developers, database administrators, and testers.

- Hardware: Computers or laptops with internet access for development and testing purposes.

- Software: Development tools such as Visual Studio Code, MySQL Workbench, and browser testing tools.

- Budget: Funding for hosting services, domain registration, and potential software licenses.

# Conclusion

The Voting Website project aims to develop a robust and user-friendly platform for democratic voting processes. By implementing secure voting functionality, enhancing accessibility, and providing comprehensive documentation, the project seeks to empower individuals to exercise their democratic right to vote effectively. With proper planning, execution, and resources, the Voting Website can become a valuable tool for promoting democratic participation and engagement.