

# System Analysis and Design Project Assignment

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- *PROJECT NAME: Vote Tech*
- *PHASE: Requirements Gathering*
- *DATE: 03/04/2024*
- *PREPARED BY: 21CIS0012\_Thushanthan, 21CIS0130-Withyen, 21CIS0142\_Nilushikka*

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# 1. Project Plan

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## 1.1 DESCRIPTION/PURPOSE OF PROJECT:

- Implement a digital voter Registration system to enhance the voting process.
- Increase efficiency, accuracy, and accessibility in the voter registration process.
- Enhance security measures to ensure the integrity of the voting system.

## 1.2 SCOPE OF PROJECT:

- Develop a user friendly digital voter registration platform accessible using website and mobile devices.
- Implement high security measures to prevent fraud and ensure the confidentiality of voter details.
- Conduct thorough testing and validation to verify the reliability and accuracy of the digital voting system.

# 2. Project Description

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## 2.1 PROJECT STAKEHOLDER SCENARIOS

- Provide a convenient and accessible voter registration method for citizens.
- Ensure the integrity and security of the voting process.

## 2.2 CONSTRAINTS & RESTRICTIONS

CONSTRAINT	ISSUE/SOLUTION
Limited budget	Explore cost effective solutions and prioritize essential features.
Legal regulations	Ensure compliance with electoral laws and regulations.

## 2.3 ASSUMPTIONS & DEPENDENCIES

- Assumption: Citizens have access to internet connected devices for voting.
- Assumption: Required security measures can be implemented to protect against cyber threats.
- Dependency: Availability of technical expertise for system development and implementation.

## 3. Project Requirements

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### 3.1 USER REQUIREMENTS

- Users should be able to easily register as new applicants for the election commission if they are above 18 years old and reside at a particular house address.
- Registered users should be able to access and fill out an application form for elections.
- Users should be able to add or remove citizens from a particular house address.
- Admins (Grama Niladari) should be able to easily register as admins to validate and maintain records of registered users.

### 3.2 FUNCTIONAL REQUIREMENTS

- The site should have separate forms for new applicants, existing registrants, and adding/removing citizens from a house address.
- The site should have validation checks to ensure accurate and complete form submissions.
- The site should securely store and manage user data and form submissions.

### 3.3 SYSTEM REQUIREMENTS & SOFTWARE INTERFACES

- The site should have a database system to store user data and form submissions.
- The site should have security measures in place to protect user data and prevent unauthorized access.
- The site should be compatible with major web browsers and operating systems.

### 3.4 USER INTERFACE REQUIREMENTS

- The site should have a clean and intuitive design that guides users through the application process.
- The forms should be easy to fill out with clear instructions and prompts.
- The site should have a responsive design that adapts to different screen sizes and devices.

### 3.5 WORKFLOW AND ACTIVITIES

- Develop voter registration platform prototype based on user requirements
- Conduct user testing and feedback sessions to refine the system.
- Implement security measures and conduct thorough testing before deployment.

### 3.6 CHANGE MANAGEMENT

- Establish a clear process for handling updates and modifications to the voting system.
- Communicate changes to stakeholders and provide training as needed.

### 3.7 RISK MANAGEMENT

- Identify potential security threats and vulnerabilities.
- Implement safeguards and contingency plans to mitigate risks.
- Regularly monitor and update security measures to address emerging threats.

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Image 4.1

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Image 4.2

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