Election Commission management System

Software Design Specification

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**Preface**

This document presents the Software Design Specification for the Election commission management project. The major sections of the document address the system decompositionby

module, concurrent process, and data entity. The system dependencies are also described.

Section 2, Decomposition Description, gives a view of the whole system design including concurrent processes and data entities that are common amongst all system modules. An

important discussion of how the E-voter modules extend the existing aadhar card is included this section. This discussion includes a UML Class Diagram that depicts the entire system.

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**1 Introduction**

* 1. ***Purpose***

The purpose of the Software Design Specification is to describe the specific design of the Election commission management System Website. The design specification includes an overview of the design along with software module decomposition.

This document provides a detailed description of each software module’s design. For each module, a user interface design and class diagram design is given. As well, a process description is described for each module. It is in the process description that the details of what logic will need to be implemented are given.

***1.2 Scope***

It is within the scope of the Software Design Specification to describe the specific system design of the Election commission management System project. This would include user interface design, object-oriented class design, process design, and data design. Any specific detail that is needed about the standards or technology used to design the software are within the scope of this document.

It is outside the scope of this document to describe Election commission management System and technology or the general problem with unwanted Election commission management System. It is also outside the scope of this document to describe in any detail at all how certain mentioned standards or technologies work and operate.

***1.3 Definitions and Acronyms***

Table of Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| **Definition, Acronym, or Abbreviation** | **Description** |
| SDS | Software Design Specification. |

***1.4 References***

Table of References

|  |  |
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| **References** | **Description** |
| Software Development Plan | The Software Development Plan from the Election commission management system project was referenced. |
| Software Requirements Specification | The Software Requirements Specification from  the Election commission management system project was referenced. |

1. **Decomposition Description**
   1. ***Module Decomposition***

The E-Mail Client Software has been decomposed into the following modules

* E-election (Voter) Configuration Module: This module collects data from the user to Create a voter database.
* E-election (voter login): This module autheniticate the voter to see their information.
* E-election(Admin): This module updates the database of user by cheking their valid Documents.
* E-election(Officer allocation) : This module will allocate the officer to the respective booth.

By checking precondition ,they should not belong to to that area.

* E-election(Admin Authentication): This module authenticate the admin to login ,so that he can Update the database.

***2.2 Concurrent Process Decomposition***

The Election commission management system Project consists of two major components Voter Id creation and officer allocation by the user. This team shall design the booth officer allocation according to the sensitivity of area. The design of the voter software is out of the scope of the current team’s task.

A complete view of the project suggests that there are two processes, the voter process and the Admin process. The Admin process communicates with the voter process to obtain an voter Id. These two processes run concurrently and only exchange information when the Voter id creation a validation of Adhar card to make voter id.

***2.3 Data Decomposition***

The following are the two major data components, the E-voter id Information and the Admin control function.

E-voter Information: This is a database that contains the following data items;

Voter Name: A string-containing name of vendor. Used only for identification of a voter by the Admin.

* Password:voter authentication
* Dob:voter date of birth
* Parents name:Voter parents information
* Address:Voter residential address
* Adhar card no:Voter aadhar card number
* Email:voter email address

The Admin controll: This is a data structure that is attached with the voter card information and officer allocation.

* Admin username:authentication od user name
* Admin password:admin authentication
* Officer information:Rank and respective constituency.
* Booth information:Sensitivity information.

**3 Dependency Description**

***3.1 Inter-module Dependencies***

**3.1.1 Independent Modules**

The following modules are independent and do not rely on any other modules to initiate them or

to provide data.

* E-voter id information
* E-election admin control

**3.1.2 Dependent Modules**

The following modules are dependent on one another for their functioning.

* E-election (voter login): This module autheniticate the voter to create a voter id by matching with aadhar card
* E-election (admin login): This module autheniticate the admin to enter into update process by matching password.

***3.2 Inter-process Dependencies***

As described earlier the two main processes are the E-voter id creation and the admin process. The voter process depends on the admin process only for obtaining voter id . This is the only dependency between the two processes.