Software Requirements Specification

For

ZEC Voters’ Roll Dashboard System

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# Introduction

## Document Purpose

This document provides an overview of the software requirements for the Zimbabwe Electoral Commission (ZEC) voters’ roll dashboard system. It will detail the system scope, specific requirements, and non-functional requirements that the system should fulfill.

## System Scope

The process of producing the voters’ roll to stakeholders is currently manual. Besides during elections when the voters roll is produced for contesting candidates, stakeholders have to make a requisition by filling a physical authorisation form to acquire an electronic copy of the voters’ roll. The form then goes through the set approval structures before the production of the voters’ roll.

The ZEC Voters’ roll dashboard seeks to digitize the current voters’ roll production system. The intended system should ensure that only authorised stakeholders have access to the voters’ roll.

# Specific Requirements

## Functional Requirements

The functional requirements capture the intended behavior of the system. The following list outlines the high level functions the system is required to perform:

### F1: The system shall allow stakeholders to apply for access to the voters’ roll stating the reason and the scope of the voters’ roll they want to access. Approved stakeholders shall be issued login details to give them access to a profile that will record an audit trail

### F3: Mandatory One Time Pin (OTP) to provide two factor authentication on each login to ensure the rightful authorized users are accessing the system.

### F4: Dashboard display of descriptive statistics of the voters ‘roll

### F5: Voters’ roll is displayed in data table that provide filter and search functionality.

### The data tables display voters’ roll data stored in an SQL server that connects to the system. The following fields:

* Surname
* Forename
* (National) ID
* Sex
* Date of birth
* Address
* Registration number
* (Polling) Station code
* Polling station
* Ward
* Local authority
* Constituency
* District
* Province

# Other Non-functional Requirements

## Performance Requirements

As a web application system, the voters’ roll dashboard system will be expected to meet modern web-based systems. The system shall display relevant web pages as quickly as possible. Speed of execution will be an essential KPI with an estimated Page Load Time (PLT) of at 3 seconds with an average internet speed of 3MB/s.

## Safety and Security Requirements

The voters’ roll dashboard shall prioritize security to protect the data of the voters’ roll and information of users and stakeholders from visibility and possible alteration by unauthorized parties. The following measures shall be implemented to ensure the safety and security of the system:

### The system provides a user account that allows only authorized users to gain access to their respective profile using a login username, password and OTP mechanism.

### Every authenticated user, once he/she logins shall initiate a session with a specified duration in which he/she can now read information in the system.

### All sessions registered by a user shall be logged for audit trail. The system knows which user has logged and when he has logged in.

### The system shall disable copy functionality in browsers to ensure no voter’ roll information is extracted out of the system.