Ortiga Automated Population Census Application

Software Requirement Specification (SRS) Document

Project Timeline: 21/11/2022 to 24/11/2022

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1.   Introduction: -

The introduction of the software requirement specification provides an overview of the entire software. The entire SRS with overview description purpose, scope, tools used and basic description. The aim of this document is to gather, analyse and give an in-depth .so in ortiga is a country with population of around 20 crore.Earlier they used to have a population census every 4 years which has completely manual.The reports were taking a lot of time to be compiled and generated.Also that the govt.since they have the census coming up after 6 months they have decided to automate the system.

1.1 Purpose:

The purpose of this document is to show the requirements for the ortiga   Automated Population Census Application , which helps in automating census of population Automated because of more population in ortiga country they decided to census the population for every 4 years which was completely manual. The reports were taking a lot of time to generate so decided to things become easier to census population fastly so decided to census coming up after 6 months to automate the system, which will help them in Getting timely and correct reports. save time and money for the process of planning for the welfare of people through the correct data.

1.2 Intended Audience:

This document is intended to be read by, the zones and admin(government).

1.3 Scope:

This project aims to create the Reports of ortiga Automated Population Census Application. In which the Government should prepare reports about the census population Automatically. This saves time and money in the census population. so introduced an Automated concept to easily census the population.

2. Overall Description: -

The Population Census application is a system that is designed to replace the traditional and manual way of generating reports for the country of ortiga by automating the whole process of collecting and processing the data in a much more efficient and time saving way. Where related information about a person would be stored and processed based on which zone the person belongs to. The control of this system will be divided into different zones responsible for registering citizens whereas the superior command will reside with the Centre who has all the authority of the system.

The Automated population census application will work in two main modules. The first module will be the citizen registration portal which will work at zone ends with the help of which, separate zones will be able to register the citizen and add their records to the data.

The second module of the system resides with the Central Administration which has total control over the system and can access any data from all three zones as well as perform other operations on the data. Only authorised persons can access the data through the central portal. After successful authentication of the administrator, he has the authority to modify the records of the citizens, delete the records of the citizens as well as view overall data about the citizen.

2.1 Assumptions and Dependency: -
- User must provide username and password to login.
- User must have the windows or Linux installed.
- User should have minimum configuration of 4GB and 200 GB hard disk.

3.System Features and Requirements: -

3.1 Functionality:

3.1.1 Ortiga Zone Wise Registration module:

This module is used to register the citizens of the ortiga of various zones. Registration of the citizens done by the zone representatives.

3.1.1.1 Zone-1 Register:

Details of each person in zone 1 entered based on their zone-id and ssid. Both will be unique.The data entered will include details like ssid, name, age, sex, address,qualification, occupation, annual income, no_of_dependants, rented house or own house, urban or rural etc.

3.1.1.2 Zone-2 Register:

Details of each person in zone 2 entered based on their zone-id and ssid. Both will be unique. The data contains the personal details as mentioned in above paragraph.

3.1.1.3 Zone 3 Register:

Details of each person in zone 3 entered based on their zone-id and ssid. Both will be unique. The data contains the personal details as mentioned in above paragraph.

3.1.2Ortiga Admin module:

To access this module the representatives of the Central Government have to be authenticated by using password. They are also able to view the reports and can ask queries.

3.1.2.1 Data Modification:

Central Government representatives by using this function can modify the data of the citizen.

3.1.2.2 Data Deletion:

Central Government representatives by using this function can delete the data of the citizen.

3.1.2.3 View data :

Central Government representatives by using this function can View the data of the particular person by entering his personal ssid number.

3.1.2.4 Age Group Report:

This function will produce the report which will show the percentage of people between the age 1 to 17, 18 to 40 and more than 40 with respect to each zone as well as with respect to the whole country. This function is only accessible by central government people.

3.1.2.5 Gender Report:

This function will produce the report which will show the percentage of male and female citizens with respect to each zone as well as with respect to the whole country.

3.1.2.6 BPL Zone Wise Report:

This function will produce the report which will show the percentage and number of people below poverty line (below annual income of 1,00,000)with respect to each zone as well as with respect to the whole country.

3.1.2.7 Farming Population Report:

This function will produce the report which will show the percentage of citizens having occupation as a farmer with respect to each zone as well as with respect to the whole country.

3.1.2.8 Literacy_Rate:

By using this module the representative of the central government(admin) will be able to view the percentage of the literate population of the country.

3.1.2.9 Zone with Highest Literacy Rate:

By using this module the representative of the central government(admin) will be able to know which zone is having the highest number of literacy rate.

3.1.2.10 BPL Average Income:

By using this module the representative of the central government(admin) will be able to know the average annual income of the below poverty level people.

3.1.2.11 Rural and Urban Population :

By using this module the representative of the central government(admin) will be able to know the percentage of people living in the urban and rural areas.

3.1.2.12 Zone with highest Male and Female :

By using this module the representative of the central government(admin) will be able to know which are the zones having the highest number of males and females.

3.2 System Requirements: -

3.2.1. Tools to be used:

- C File Handling
- C Language

3.3 System Features: -

- Supportability: The system is easy to use.

- Design Constraints: The system is built using only C language.
- Reliability & Availability**:** The system is available 24/7 that is whenever the user would like to use the system, they can use it up to its functionalities.

- Performance: The system will work on the user's terminal**.**