



High Level Design & Low Level Design

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1. Introduction

The population census application is a system that allows the zone representative to automatically store the population data for each and every person in a systematic order inside the database removing the traditional way of using manual way reports were it takes a lot of time to be compiled and generated. Now with the introduction of this system it simplifies the process as now every person record is accessible at a single click right of their zone id & ssid so that retrieving the records accurately.

1.1 Intended Audience: -

The target audience set for this project can be identified as an government admin who is retrieving population data from zones and automate the process of handling the records which includes maintaining records from each zone.

1.2 Project Purpose: -

The population census is a project that helps us understand the basic concepts of functions, file handling, and data structure. The automated population census system will take ssid(social-security-id) and zone id from the admin. It will create a population data record for each zone separately. It will record all data from zones, it should be accumulated into the census file which is maintained at center by the government admin. We can maintain a database of each zone by adding, displaying, updating and removing by the main menu of this population census program.

1.3 Key Project Objectives: -

- a. Allow the admin to enter username and password.
- b. Displays all the records to admin.
- c. Modify/Update the population records.
- d. Calculate the highest literacy and average income of each zone.

1.4 Project Scope : -

This project aims to create the development of an automated system of population census application to assist the government in storing and retrieving all the information about the people such as ssid,name,aadhar no, age, sex etc. in the country in more robust way and efficient manner. All the information about a particular person is stored in a retrievable manner.

2. Design Overview: -

- **Population census comprises of the following modules in maintain record:**

Name of the Module	Add person data
Handled by	
Description	The zone representative adds a persons data in record

Name of the Module	Delete person data
Handled by	
Description	The zone representative deletes a person data in record

Name of the Module	View population data
Handled by	
Description	The zone representative views the population data in record

Name of the Module	Edit person data
Handled by	
Description	The zone representative edits the person data in record

- **Population census comprises of the following modules to provide admin user with file maintenance option to show reports:**

Name of the Module	Age condition module
Handled by	
Description	It will display % of people of different ages.

Name of the Module	Gender condition module
Handled by	
Description	It will display % of different gender in population

Name of the Module	Poverty condition module
Handled by	
Description	It will provides poverty line in a zone wise report

Name of the Module	Highest Population gender description condition module
Handled by	
Description	It will provide highest male and female population in zones.

Name of the Module	Average income calculation Module
Handled by	
Description	It will show the calculated average income of BPL people.

Name of the Module	Estimation of rural and urban % module
Handled by	
Description	% of rural population and urban population should be obtained.

2.1 Design Objectives:

1. Add different population data to the records.
2. Update all the records for each entry of people data in representative zone.
3. Displays all the records of zones to admin.
4. Allow the admin to get the required report by providing some file maintenance options.

2.2 Design Alternative: -

We have used a linked list structure to store zone data, which consist of ssid, aadhar no., name, age, sex, address, qualification, occupation, annual income, no_of_dependants, rented house or own house, urban or rural etc.

2.3 User Interface Paradigms:

The population census provides an option to admin to get accurate generated zone records to get accurate planning for welfare of people.

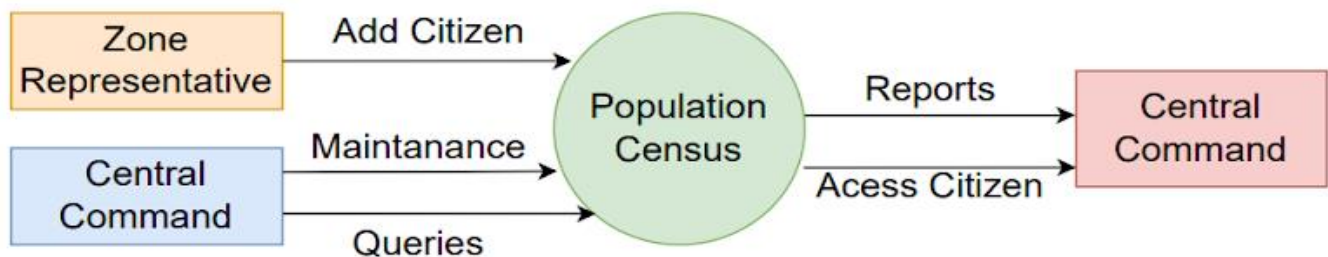
2.4 Validation:

- SSId, should not be blank and it should be unique.
- The data entered should include details like ssid, aadhar no., name, age, sex, address, qualification, occupation, annual income, no_of_dependants, rented house or own house, urban or .rural
- We check for the validity of the name; it should not be empty and only alphabets.

3. Detailed System Design:

3.1 DFD Level 0

Level 0



3.2 DFD Level-1

