

**The Lottery System**

**Software Requirement Specification (SRS) Document**

**Sprint Implementation**

**Project Timeline: 30.09.2022 to 7.10.2022**

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### 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, analyze and give an in-depth insight into the complete Lottery System by defining the problem statement in detail. The detailed requirements of the Lottery system are provided in this document.

* 1. **Purpose**: **-**The purpose of this document is to describe the requirements to track all information of a participant allotted by the lottery process system and keep organized details of all participants. The main purpose of Lottery System is to allot the plot to the people of the city through lottery.
  2. **Intended Audience: -**This document is intended to be read by Client.
  3. **Intended Use: -**
* Development Team
* Maintenance Team
* Clients

Since this a general-Purpose Software Thus any one Can access it.

* 1. **Scope: -**This project aims to develop an automated system of Lottery Process to assist ZDA Authority in storing and retrieving all the information about the registered participants and the winning participants in a way more robust and efficient manner. All the information about a particular participant is stored in a retrievable manner.

**2. Overall Description: -**

A Lottery Process is arranged by ZDA Authority to allot 100 plots to people of the city. On the basis of first-cum-first-serve, tokens are alloted. Only 300 tokens are available. A serial number is allotted by using pre-decided range. Once the timing is announced they have to grab the tokens by using their unique family id and they get an auto-generated confirmation regarding their participation in the lottery process. On every call a token number is auto-generated out of a list of 300 available tokens. The participant who owns the token will be notified. He/She will have to confirm booking within 5 minutes by paying Rs. 50000 as booking amount. Once done the plot is allotted in his/her name. If the winning participant does not confirm booking then automatically there is a repeating lottery for the same plot. Once a plot is booked its details are updated in the plots database. Another database is maintained which will have the participant details as well as the plot details for the plot he won.

**2.1 Assumptions and Dependency: -**

* User should have the latest version of Ubuntu Linux installed.
* User should have minimum 4GB RAM.
* The service is available on a desktop or laptop.

**3. System Features and Requirements: -**

**3.1 Functionality: -**

**3.1.1 LS\_O1->Participant Corner**: Out of 500 households from the city only 300 participants are allowed to grab a token which is available on the website.2 tokens cannot be issued to a single family. So now the participant can register by entering their unique family id and can view the allotment details through the auto generated confirmation message.

**3.1.2 LS\_02->ZDA Authority**: ZDA Authority maintains plot database by adding, editing, deleting and viewing plot details. It also maintains participant database by adding, editing, removing and viewing all participants database. They can also view the Lottery report. ZDA authorities have to supply a password to access the admin features online

**3.1.2.1 LS\_02**->**Add Plot Details:** ZDA Authority adds plot details into database like plot no, Size (in sq. ft.), price of plot, etc.

**3**.**1.2.2 LS\_02->Edit Plot Details:** ZDA Authority can edit the plot details and modify the database as and when required.

**3.1.2.3 LS\_02->Delete Plot Details**: ZDA Authority can delete the plot details from the existing database.

**3.1.2.4 LS\_02->View Plot Details:** ZDA Authority can view the plot details.

**3.1.2.5 LS\_02**->**Add Participant Details:** ZDA Authority adds participant details into database like participant name, slno. (Auto-generated), family id, token no. Plot no., Amount to be paid. The last two fields are automatically updated after allotment.

**3**.**1.2.6 LS\_02->Edit Participant Details:** ZDA Authority can edit the participant details and modify the participant database as and when required.

**3.1.2.7 LS\_02->Remove Participant Details**: ZDA Authority can remove the participant details from the existing database.

**3.1.2.8 LS\_02->View Participant Details:** ZDA Authority can view all the participant details.

**3.1.2.9 LS\_02->View Lottery Report**: ZDA Authority can view the lottery report.

### ****3.2 System Requirements: -****

### ****3.2.1.**** Tools to be used:

* C File Handling.
* C Language.
* Putty/SSH.
* GDB.
* Valgrind.
* Cunit.
* Cloud Service

**3.3 System Features: -**

### Supportability: The system is easy to maintain.

* Design Constraints: The system is built using only C language. So the constraints of C language are applied to it.
* Usability: Lottery System is used to generate token for lottery process. Lottery System manages the process of storing and modifying the database for participants and plot details. Information such as plot no, Size (in sq. ft.), price of plot, for plot details and participant name, slno. (Auto-generated), family id, token no. Plot no., Amount to be paid for participants is stored.
* Reliability & Availability: The system is available when the user is requested for service. The system is available 24/7.
* Performance: The system will work on the user’s terminal.