Capgemini

Vaccination Drive

Software Requirement Specification (SRS) Document

Sprint Implementation

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

INDEX

	Page.no
1.Introduction	1
1.1 Purpose	1
1.2 Intended audience	1
1.3 Intended use	1
1.4 Scope	1
2. Overall Description	1
2.1 User needs	1
2.2 Assumptions and Dependency	1
3. System features and requirements	1
3.1 Functionality	1
3.1.0 main()	1
3.1.1 vaccination_admin_login()	2
3.12 vaccination_beneficiary_login()	2
3.1.3 registration()	2
3.1.4 checkpassword()	2
3.1.5 select_centre()	2
3.16 book_slot()	2
3.1.7 get_vaccinated()	2
3.1.8 view-details()	2
3.1.9 view_beneficiary_data()	2
3.2.0 add_beneficiary_data()	2
3.2.1 edit_beneficiary_data()	2
3.2.2 delete_beneficiary_data()	2
3.2.3 display_fully_vaccinated_beneficiaries()	2
3.2.4 display_partially_vaccinated_beneficiaries()	3
3.2.5 display_today_vaccinated_beneficiaries()	3
3.2.6 registered_user()	3
3.2.7 new_user()	3

3.2.8 create_user() 3

3.2.9 beneficiary 3

3.3.0 admin 3

3.4 System Requirements 3

3.4.1 Tools to be used 3

3.5 System features 3

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

1.1 Purpose :- The purpose of this document is to describe about vaccination drive , The vaccinated persons and those around them who are vulnerable to the diseases, reducing the risk of diseases spreading among community.

1.2 Intended audience :- This document is intended to be read by, Beneficiary and Admin.

1.3 Intended use :-

- Admin team
- Beneficiary team

1.4 Scope :- This project aims to create the development of Vaccination system which is to assist the admin who are allowed to store and retrieve the vaccinated people data and also who wants to vaccinate data ,so that every beneficiary get vaccinated and doesn't effect to any virus .

2.Overall Description:-

The vaccination drive application is used to track the beneficiary details. It is also used to track the status of every beneficiary details like whether he get the vaccination or not. Admin can also use the vaccination drive application to add, edit ,delete ,view and check the status of beneficiary details

2.1 User needs :-

- Validated aadhar number
- Beneficiary data(name,pno,address)

2.2 Assumptions and dependency :-

- User has the latest version of Linux/Windows installed.
- User has either an 4GB or more RAM.
- The service is used preferably on a desktop ,laptop or Mobile.

3.System features and requirements:-

3.1.Functionality :-

3.1.0 main(): The user will be encountered with two options after starting the application: 1.Beneficiary Login 2. Admin Login. Beneficiaries are the ones

who want to apply for vaccination drive whereas the admin login is for government personnel's who would supervise the vaccination drive government personnel's who would supervise the vaccination drive

3.1.1 vaccination_Admin_login(): User is given following options: 1. Display Beneficiary records 2. Add Vaccine Units 3. Display Vaccine Stock 4. Display Fully Vaccinated records 5. Delete Fully Vaccinated records 6. Display Non-Vaccinated Records 7. Display Today's vaccinated records. All these functions are accessed by Government personnels only.

3.1.2 vaccination_beneficiary_login(): There would be two choices for beneficiary login: 1.New 2.Registered. The registered beneficiaries can access the application by entering the allocated register id. Whereas the new beneficiaries have to enter the required details and is redirected to Registered choice.

3.1.3 Registration():- This feature allows the user to register for vaccination by giving their details like Name ,Phone number ,Aadhar number and Address. and also they can schedule the vaccination slot for any of the given centers.

3.1.4 checkpassword():A government personnel can login by entering the specified password so as to access all the functions related to the vaccination application. Only after the password is matched, the screen is directed to Admin menu.

3.1.5 select_center(): Vaccination centres are selected by beneficiaries based on location and availability.

3.1.6 book_slot():Slots are selected according to beneficiary's' convenience. Two choices for the specified date:

1.Morning (9:00 - 11:00) 2. Afternoon (13:00 - 16:00).

3.1.7 get_vaccinated(): The beneficiary has to verify the token provided while filling the slot, only after this the vaccination is said to be successful. After completion of this stage, the count of the vaccination unit is decremented for that particular centre in the vaccination file.

3.1.8 view_details(): Details of the created account are viewed in the format:
Name:NareshGuptha
Aadharno:456789
Gender:male
Age : 23.

3.1.9 view_beneficiary_data():-This feature allows the Admin to view the beneficiary data like Name , Phone number , Aadhar number , Address ,Status of the vaccination.

3.2.0 add_beneficiary_data():- This feature allows to add the details of beneficiary by the Admin like Name ,Aadhar number and also status of the beneficiary that how many doses of the vaccination has completed and are yetto complete.

3.2.1 edit_beneficiary_data() :- This feature allows the Admin to modify the beneficiary data like vaccination status of the beneficiary.

3.2.2 delete_beneficiary_data():-This feature allows the Admin to delete the recordof the beneficiary after completion of all doses of vaccination.

3.2.3 display_fully_vaccinated_beneficiaries():The user would be able to delete the record of the beneficiary that have reached the vaccine count to 3. These details are than updated in Registered Applicant file.

3.2.4 display_partially_vaccinated_beneficiaries():Displays the list of beneficiaries that have vaccine count is one or two. These details are fetched from Registered Applicant file.

3.2.5 display_today_vaccinated_beneficiaries(): Displays the list beneficiary that have been vaccinated today. These details are fetched from Registered Applicant file.

3.2.6 registered_user(): After choosing the registered option, user will be given following options:

1.Select Centre 2.Book Slot 3.View details.

3.2.7 new_user(): After choosing the new option in the previous login, user will be given two options: 1. Create Account 2.View Details.

3.2.8 create_account(): Details are to be entered for creating a new account.

Format of new user entries-

Name,Aadharnumber,Age,Gender.

Example sample entries-

123456,TwinkleDk,22,F

568912,Vaastav,62,M

These details are first crosschecked with Aadhar File and only then they will be stored in Registered Applicant file.

3.2.9 Beneficiary:- This part of module deals with some operations like add details , book the slot and view the status

3.3.0 Admin:- This part of module deals with some of the operations like view the beneficiary details.

3.4 System requirements:-

3.4.1. Tools to be used:

- C Language
- C File Handling
- Linux
- Valgrind

3.5 System features:-

- Supportability: The system is easy to maintain.
- Design Constraints: The system is built using only C language.
- Usability: Vaccination Drive is essential for keeping digital records of Beneficiary data. Vaccination drive is the process of storing and tracking data on Beneficiary. The software can handle basic information such as Aadhar number , Name ,Phone number ,Address.
- Reliability & Availability**:** The system is available when the beneficiary request for the service .The system is available 24/7.
- Performance: The system will work on the Beneficiary and also Admin's Terminal.