

Table of Contents

Chapter No	Tittle	Page No
1.	Requirements and Analysis i. Empathize & research ii. High-Level Requirement iii. Low-Level Requirement iv. SWOT Analysis v. 5W 1H	3
2.	Design i. Structural diagram ii. Behavioral Diagram	5
3.	Evaluation i. High-level test plan ii. Low-level test Plan	7
4.	conclusion: i. Summary ii. Advantage and Disadvantage, Application	7

COWIN-PORTAL

1. Requirements:

i. Empathize Research:

Cowin-Portal is a Registration Form-Based project to handle all the details of vaccination patients. The data contains the person's status of vaccine availability. Previously (short-1) vaccination data was very difficult to maintain, so there was a need for software that can handle all the vaccination data. Our Government of India is trying to prevent the spread of the virus. At present, the priority is to make the covid-19 vaccine available to all, ensuring vaccine traceability and beneficiary tracking from the portal. The co-win form is the digital registration form for the vaccination drive in India. With the scaling up of vaccination, the number of vaccination facilities and managed effectively. It has the option to register and schedule the vaccination session online in Centers of their choice. The citizens can register them self-module with the phone, Aadhar number for those eligible for vaccines. using the Co-WIN application, we can download the vaccination certificates using the auto-generation system.

ii. **High-Level Requirement:**

ID	Description	Status (Implemented/Future)
HR01	Registration forms for vaccine details	Implemented
HR02	Registration forms for new user	Implemented
HR03	pre-vaccinated patients can be identified	Implemented
HR04	OTP generated verification	Future
HR05	Identify the Invalid statements	Future

iii. **Low-Level Requirement:**

ID	Description	Status (Implemented/Future)
LR01	Only new u can choose vaccine type	Implemented
LR02	Identify the vaccination provider	Implemented
LR03	Automatic certification generator	Implemented
LR04	Sending message	Future

iv. **SWOT Analysis:**

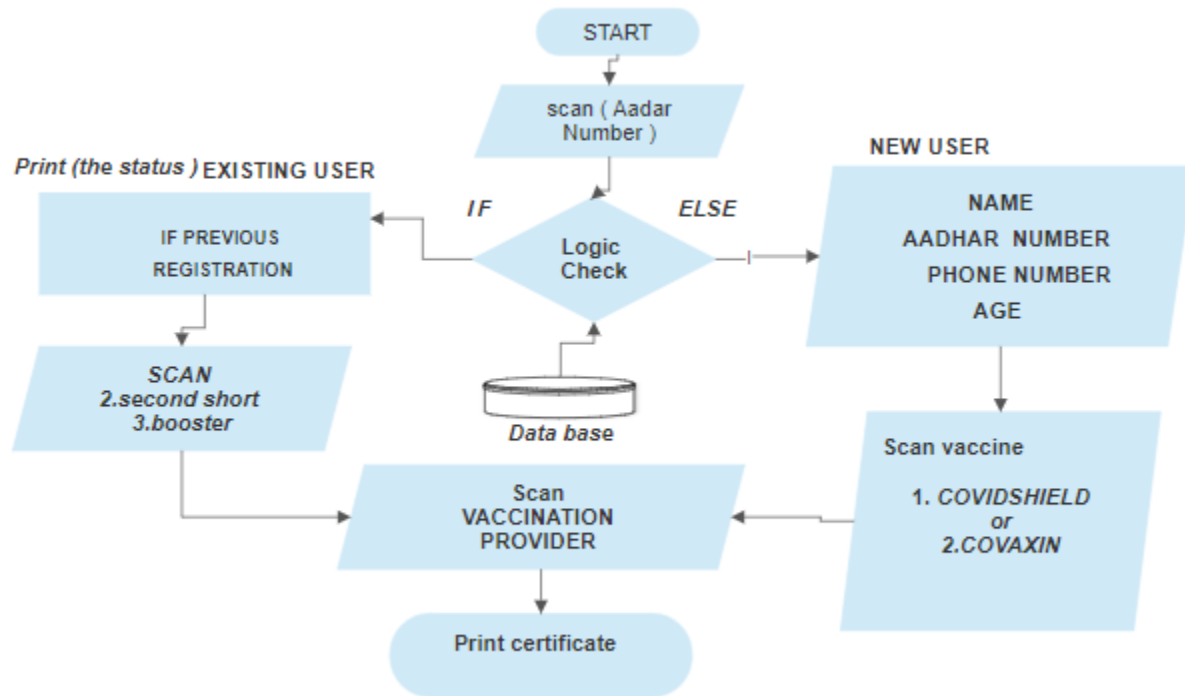
STRENGTHS	WEAKNESSES
<ul style="list-style-type: none">● we can create the data base of vaccinated peoples.● to track the details of locations.● to create the global platform.	<ul style="list-style-type: none">● Aadhar otp is not generated● not an app based portal
OPPORTUNITIES	THREATS
<ul style="list-style-type: none">● the previous vaccination details are available and● it guide as till they got fully vaccinated	<ul style="list-style-type: none">● the Aadhar number and personal details are required

v. **4W 1H:**

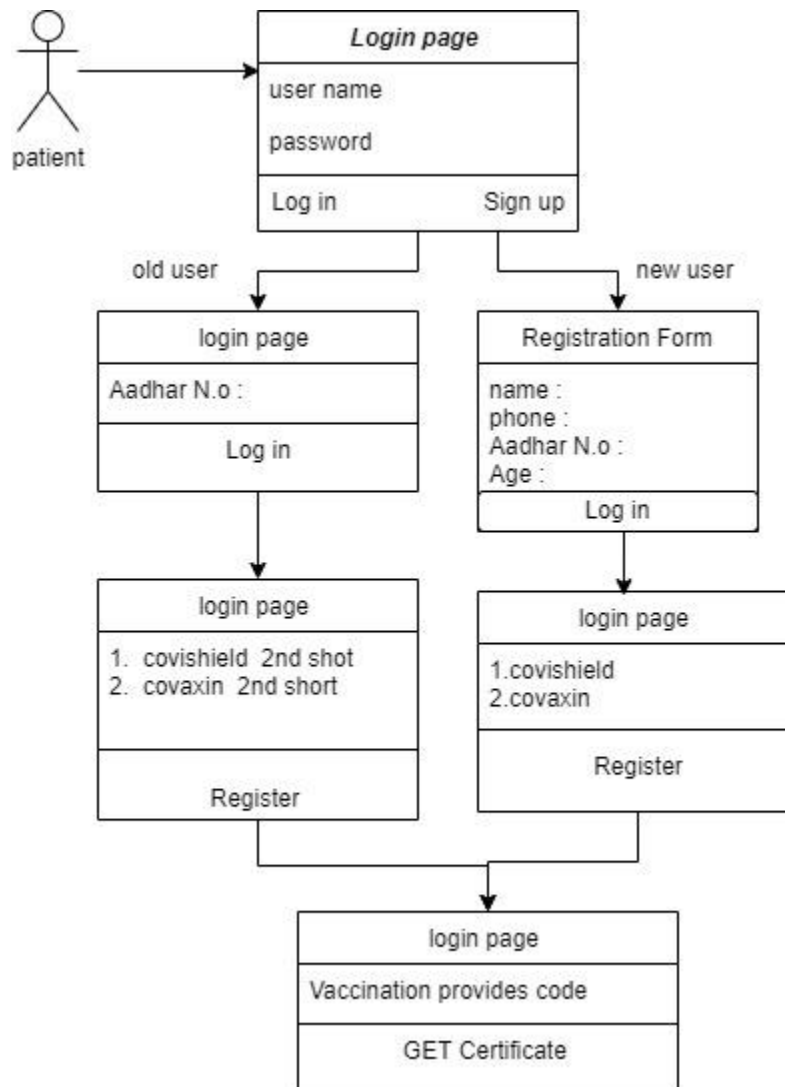
Visual Paradigm Online Free Edition	What	What do we need to do? need to Require the details of patient.
Why do we need to do it? To verify the vaccination status of the patient .	Why	
	Where	Where should it be done? Near the vaccination Center
When does it need to be done? registration should be done Before vaccinated.	When	
	Who	Who should do it? People who are 18+ are eligible for vaccination
How ought it to be done? In the cowin registration portal	How	
		Visual Paradigm Online Free Edition

2. Design:

i. Structural Diagram:



ii. Behavioral Diagram:



3. Evaluation

i. High Level Testing Plan:

Test ID	Description	Aadhar no	Age	Phone n.o	vaccine Provider	Expected output	Actual Output
01	New registration	8021344	21	803456722	Cipla	Registered	Registered
02	Existing patient	1234565	--	--	---	Not found	Not found
03	Existing patient	2304895	--	--	---	Apollo	found

ii. Low-Level Testing Plan:

Test ID	Description	Input	Expected output	Actual Output
01	patient dose status	8021344	Registered, not vaccinated	Registered, not vaccinated
02	patient dose status	1234565	Registered, vaccinated	registered, vaccinated
03	patient dose status	2302395	1st dose	1st dose
04	patient dose status	2304895	2nd dose	2nd dose

Output Images:

The first screenshot shows the Visual Studio Code interface with the Makefile open. The Makefile contains the following content:

```
15 else
16     ifeq ($(shell uname), Linux)
17         RM = rm -rf
18         FixPath = $1
19         EXEC = out
20     endif
21 endif
22
23 INC=-Iinc\
24 -Iunity\
25
26 Build :
27     gcc $(SRC) -Iinc -o $(call FixPath,$(PROJ_NAME).$(EXEC)) -lm
28
29 Run : Build
30     ./$(call FixPath,$(PROJ_NAME).$(EXEC))
31
32 Build_test:
```

The terminal output shows the execution of the program:

```
raj@DESKTOP-IJ1U1EK:/mnt/h/2raju$ ./a.out
test/test_head.c:35:test_second:PASS
test/test_head.c:36:test_Ddose:PASS
test/test_head.c:37:test_login:PASS
test/test_head.c:38:test_prov:PASS

-----
4 Tests 0 Failures 0 Ignored
OK
raj@DESKTOP-IJ1U1EK:/mnt/h/2raju$
```

The second screenshot shows the Visual Studio Code interface with the head.h file open. The head.h file contains the following content:

```
inc > C head.h > ...
6 int second();
7 int prov(char *pov,int Dnum);
8
9 #endif
10
11
```

The terminal output shows the execution of the program:

```
=====
certificate for COVID-19 vaccination - 1 st Dose
=====

Beneficiary Details

Beneficiary Name      :      RajPrasanth
Phone Number         :      8610277589
Age                  :      21

Vaccination Details

vaccination Name      :      COVISHIELD
First Dose            :      Completed
Second Dose           :      NOT Completed
Vaccinated by         :      Cippla
=====

!!!! STAY SAFE !!!!
=====

raj@DESKTOP-IJ1U1EK:/mnt/h/2raju$
```


The image displays two screenshots of a Visual Studio Code editor window, showing the development and execution of a C program. The editor is titled "head.h - 2raju - Visual Studio Code".

Top Screenshot:

- EXPLORER:** Shows the project structure with files: `2RAJU`, `inc`, `src`, `unity`, `a.out`, `certificate.c`, `main.c`, `Makefile`, `provider.c`, and `register.c`.
- EDITOR:** Displays the `head.h` file with the following code:

```
inc > C head.h > ...
1 int login(int a);
2
3
4
5
6 int second();
7 int prov(char *pov,int Dnum);
8
9 #endif
10
11
```
- TERMINAL:** Shows the compilation process:

```
raj@DESKTOP-IJ1U1EK:/mnt/h/2raju$ make
gcc main.c src/login.c src/prov.c -Iinc -o a.out
./a.out
```

Output of the program:

```
##### COWIN PORTAL #####

***** WELCOME TO THE MAIN MENU*****

1.Enter the Aadhar number :
2.Enter sign up :
```
- STATUS BAR:** Shows "Ln 11, Col 1 Spaces: 4 UTF-8 CRLF C Win32".

Bottom Screenshot:

- EXPLORER:** Same project structure as the top screenshot.
- EDITOR:** Displays the `head.h` file with the same code as the top screenshot.
- TERMINAL:** Shows the execution of the program with user input:

```
##### COWIN PORTAL #####

##### Registration page #####

Fill the details

Enter the NAME:
RajPrasanth

Enter the Aadhar number:
8965434

Enter the Phone number:
8610277589

Enter the Age:
21
```
- STATUS BAR:** Shows "Ln 11, Col 1 Spaces: 4 UTF-8 CRLF C Win32".

4. Conclusion:

I. summary:

- To create a registration form for vaccination.
- For both existing and old users.
- To Provide the certificate from the vaccination provider.
- personal details like Aadhar, name, phone number, age, etc.
- New registered patients can have the option to select the vaccine type.
- Aadhar numbers are verified and matcher for exciting user
- If the patient exiting continues second short form is open.
- For new users must fill in the detail and select vaccinate type for registration.
- The user must enter the details of the vaccine provider and submit form to generate the certificate.
- Vaccination data are updated.
- Automatic certificated is generated with beneficiary detail and vaccine details