

PROJECT REPORT  
ON  
**Online Aadhar card application**

**B.Tech (CE) Sem-IV**  
**In the Subject of**  
**SP Project Work**

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# **Contents**

1. Abstract.....	4
2. Introduction.....	5
3. Software Requirement Specifications.....	7
4. Design.....	10
5. Implementation Detail.....	20
6. Testing.....	21
7. workflow/Screen-shots.....	22
8. Conclusion.....	35
9. Limitation and Future Extension.....	36
10. Bibliography.....	37

## **1. Abstract**

Now a day covid-19 is in action so people have to avoid going outside of home.so in this time everything is going digital and online work and avoid crowd at gov corporation for get necessary document.

To overcome these situation, there arise a need for online Aadhar card application. Online Aadhar card application web is built for the same reason. It's helps Indian residents to apply new Aadhar , download Aadhar card , update in their Aadhar card at their own home without visit gov corporation.

## **2. Introduction**

### **1.1 Introduction of Online Aadhar card Application WEB**

Online Aadhar card application web is built for the Indian resident. It's helps Indian residents to apply new Aadhar , download Aadhar card , update in their Aadhar card at their own home without visit gov corporation and very quick at any time any where.

#### **Features of Online Aadhar card Application:-**

- Users can apply new Aadhar card.
- Users can see/download Aadhar card details.
- In case of any update in detail of Aadhar card user can also update details.
- User can generate Aadhar card number using VID or generate master otp.

## **1.2 Technology/Platform/Tools Used**

### **Django :**

Django is the official web development framework of python. Which provide best platform for web development using python.

### **Python :**

Python is a general-purpose programming language that is class-based, object-oriented, and designed to have as few implementation dependencies as possible.

### **Html :**

Html used to describe data.it is well readable both by human and machine. It is scalable and simple to develop. In Web it is used for designing web s as html is lightweight language.

### **Twilio message sending System:**

Twilio library use for send one time password to user's mobile number for user verification.

### **3. Software Requirement Specifications**

#### **Online Aadhar card Application :-**

##### **R1. New Aadhar Application**

###### **R.1.1 Signup**

Description :

For new applicant, he/she have to sign up at 1<sup>st</sup> time.

Input: necessary details

Output: display message

Process: fill form for signup and get username and password.

###### **R.1.2 Login**

Description :

User have to sign for use functionality of web application.

Input: user name and password

Output: home page of web

###### **R.1.3 Apply New Aadhar**

Description :

A portal to apply for Aadhar Card, a form to be filled to

Issue Aadhar Card; Some necessary Documents are needed to be attached with the Form. then submit form and get message that user's application for new Aadhar card is accepted.

- Input: fill the form and upload documents
- Output: display message
- Process: fill form correctly and submit it for verification.

## **R2. Update in Aadhar details**

### **R.2.1. NAME UPDATE:**

Description:

select update name option and enter modified name and submit it. After submitting user redirect to update page.

- input: modified name
- output: display message and redirect to update portal
- Process: click on change name fill form and submit it. It's modify user's name.

### **R.2.2. ADDRESS UPDATE:**

Description :

select update name option and enter modified address and submit it. After submitting user redirect to update page.

- input: Modified address
- output: display message and redirect to update portal
- Process: click on change address fill form and submit it. It's modify user's address.

### **R.2.3. PHOTO UPDATE:**

Description:

select update photo option and upload new photo and submit it. After submitting user redirect to update page.

- input: upload new photo
- output: display message and redirect to update portal
- Process: click on change photo and upload photo and submit it. It's update user's photo.

### **R.2.4. EMAIL OR MOBILE NUMBER UPDATE:**

Description :

select update mobile number/email option and enter new mobile number/email and verify using otp and submit it. After submitting user redirect to update page.



- input: new mobile number/email and otp
- output: : display message and redirect to update portal
- Process :click on change email/number fill form and enter otp and submit it. It's update user's mobile number/email.

#### **R.2.5. DATE OF BIRTH UPDATE:**

Description :

select update DOB option and enter new DOB and submit it. After submitting user redirect to update page.

- input: new date of birth
- output: display message and redirect to update portal
- Process: enter new birth date and submit it. It's update user's birth date.

### **R.3 Generation and verification**

#### **R.3.1 Generate Aadhar Number**

- Input: click on generate Aadhar number. And enter user's VID number
- output: display user's VID number

#### **R.3.2 Master otp**

Description :

Click this to get an otp that can be used to get Aadhar details, get/retrieve Aadhar no., temporary access for verifications, used to get E-Aadhar and simple mobile number verification.

- input: enter mobile number
- output: display otp with message (valid still you not leave)

#### **R.3.3 Download Aadhar card**

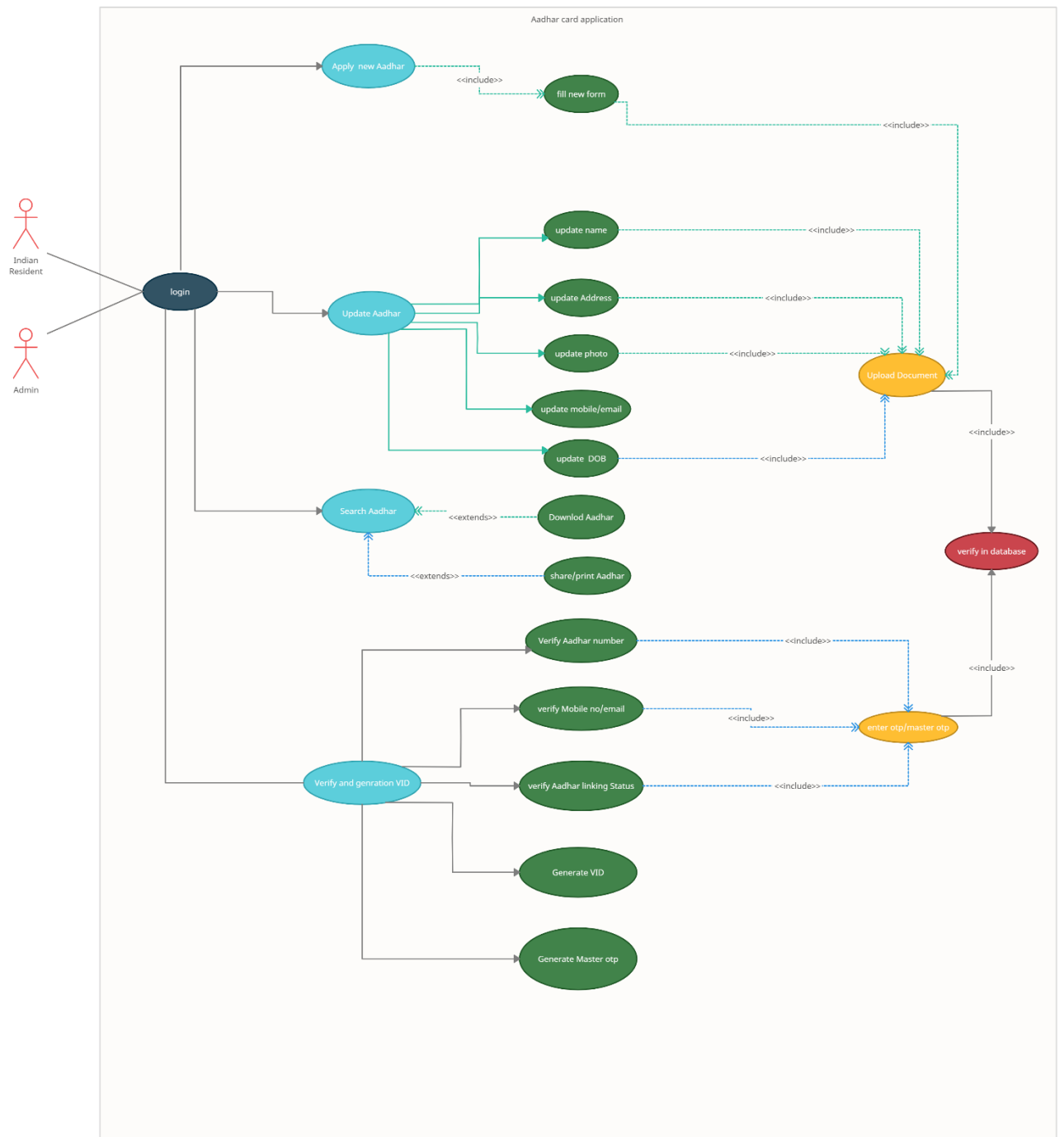
description:

user enter Aadhar number and mobile number and otp.  
Then E-Aadhar will download.

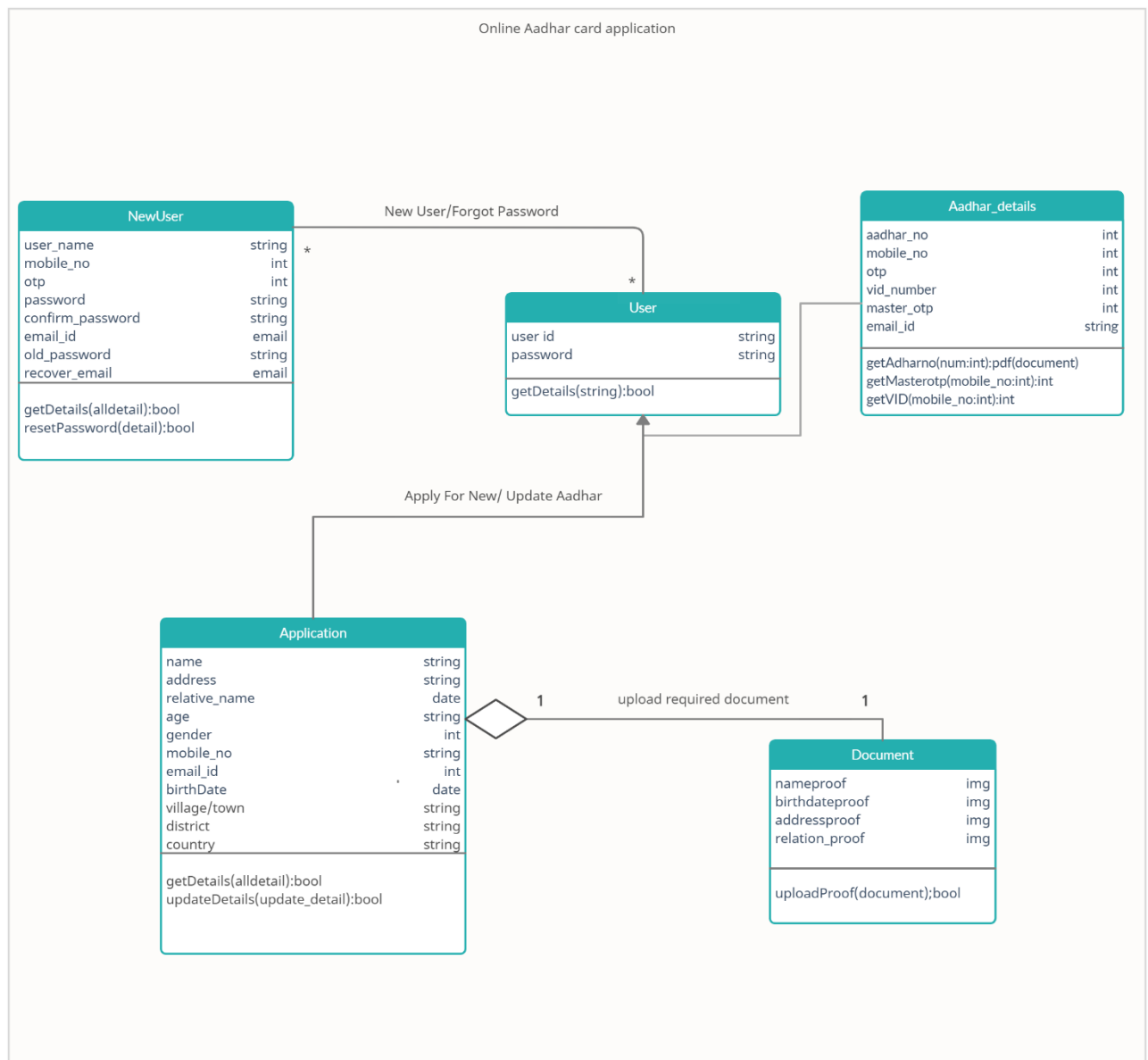
- Input: Aadhar number , mobile number and otp
- Output: E-Aadhar card

## 4. Designs

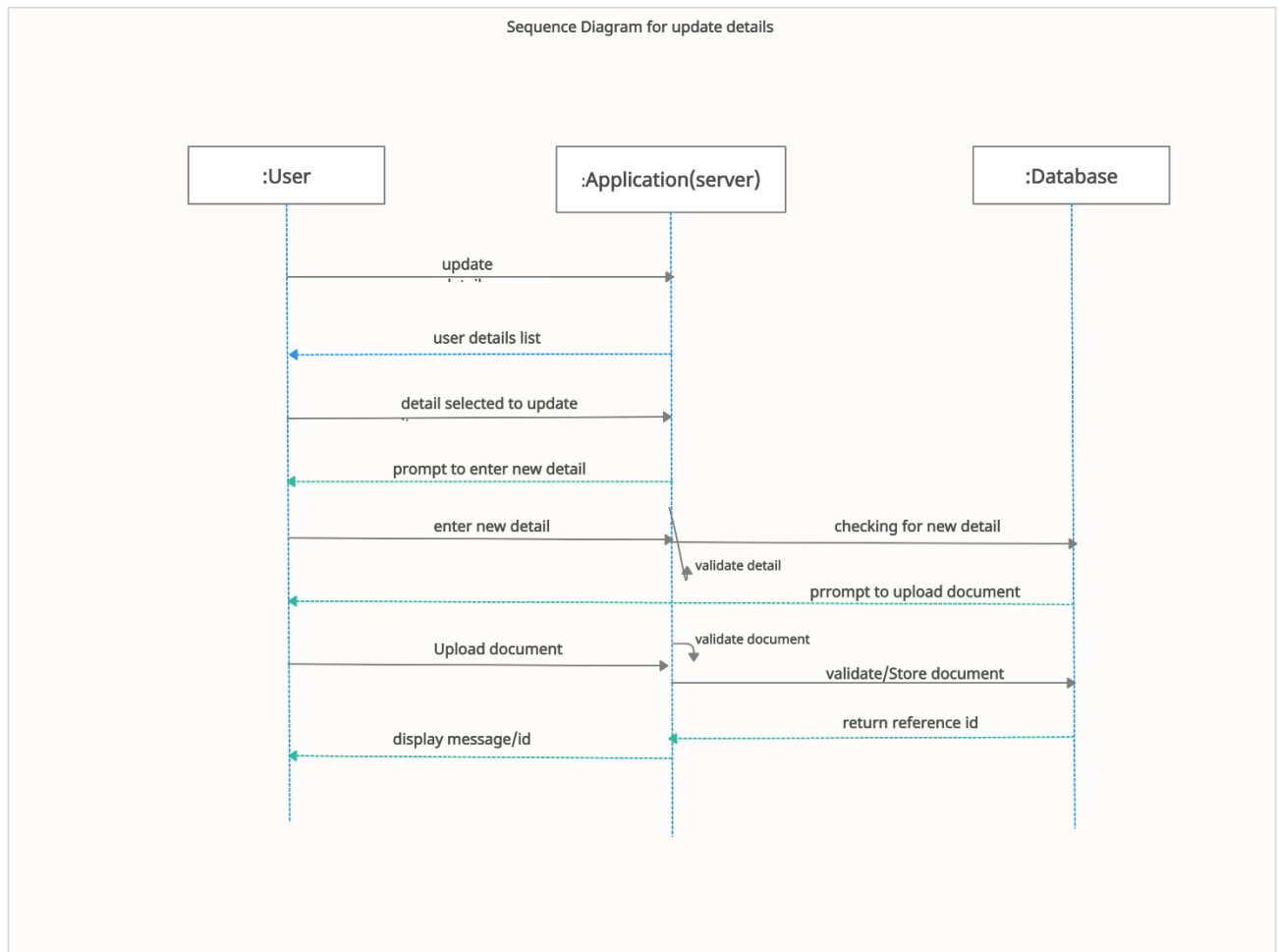
- **Usecase Diagram :-**

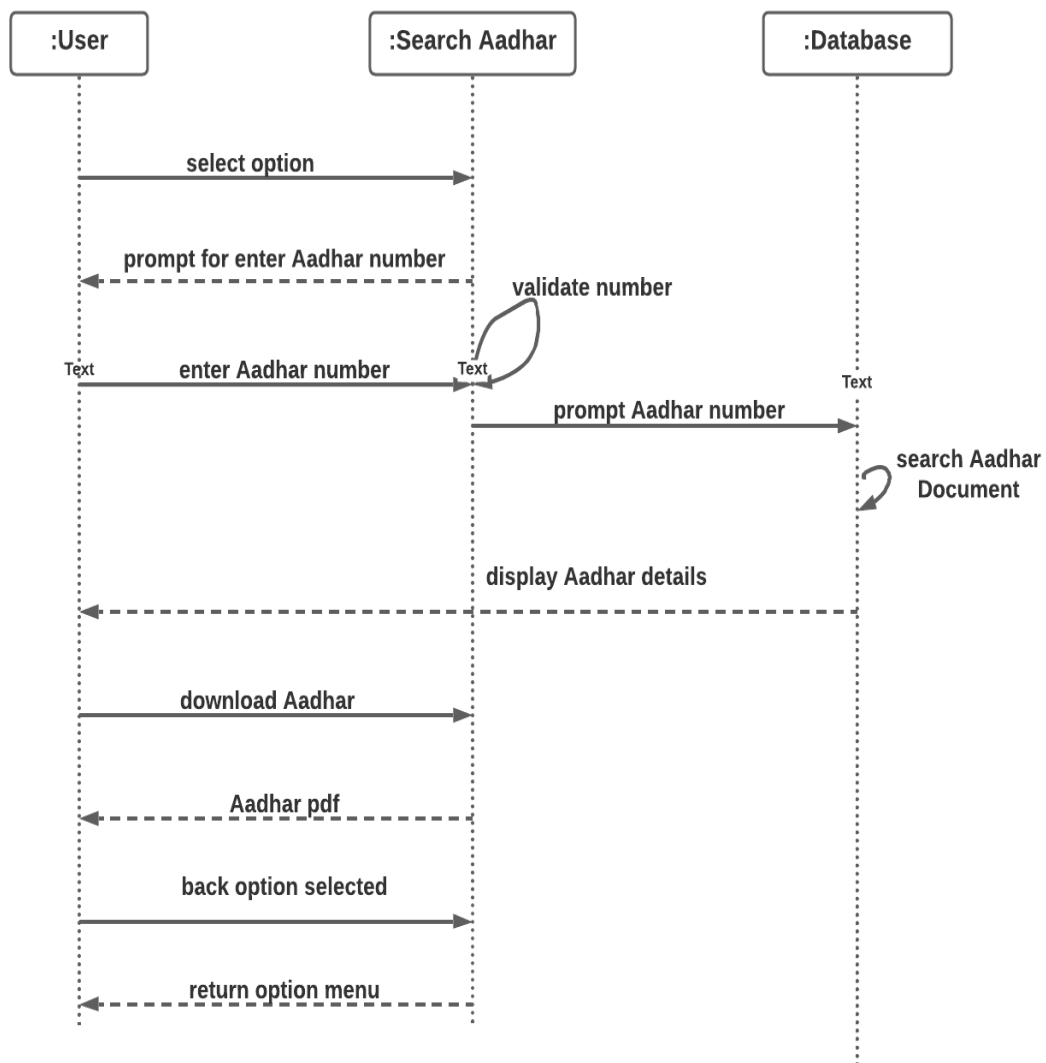


- **Class Diagram :-**

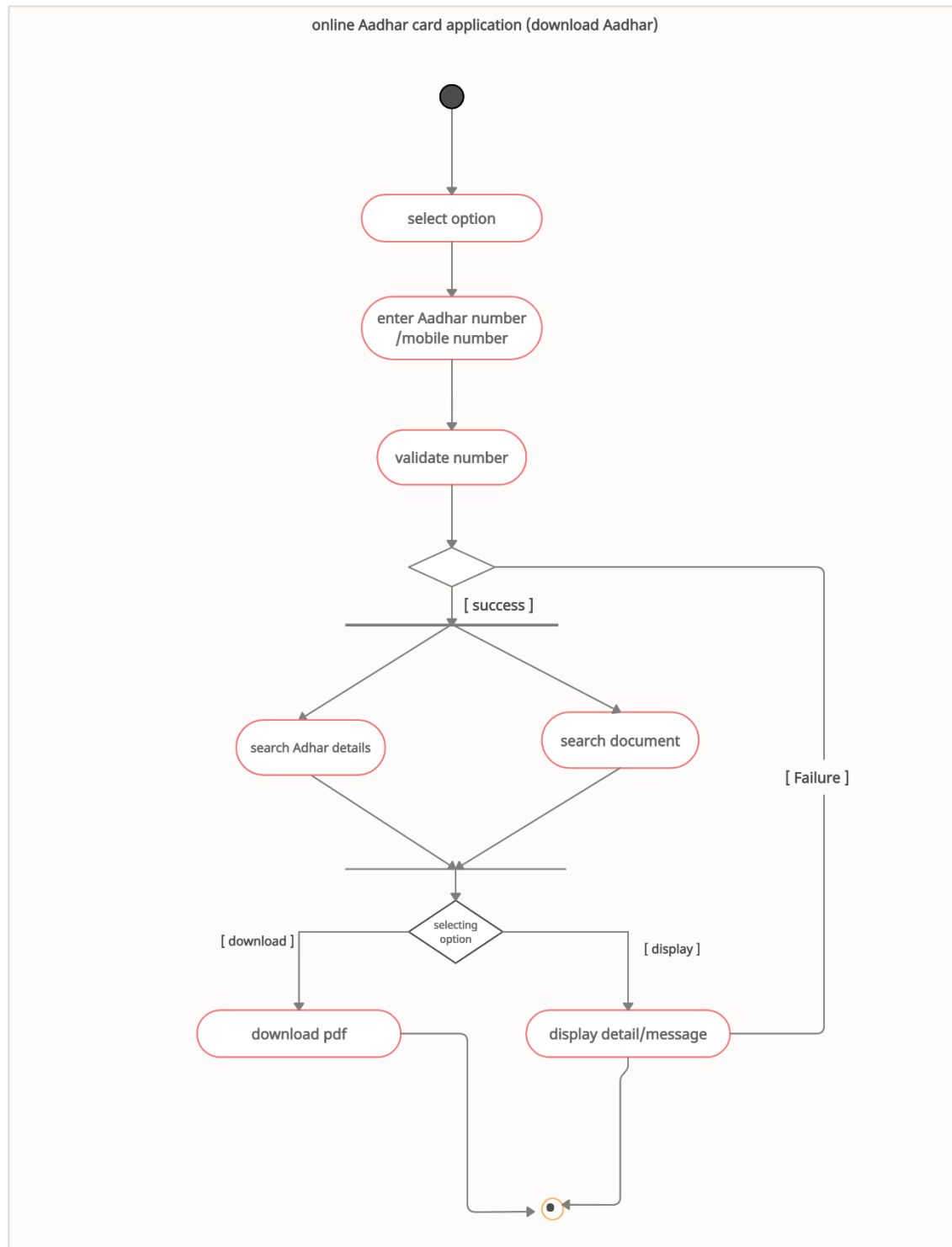


- **Sequence Diagram :-**

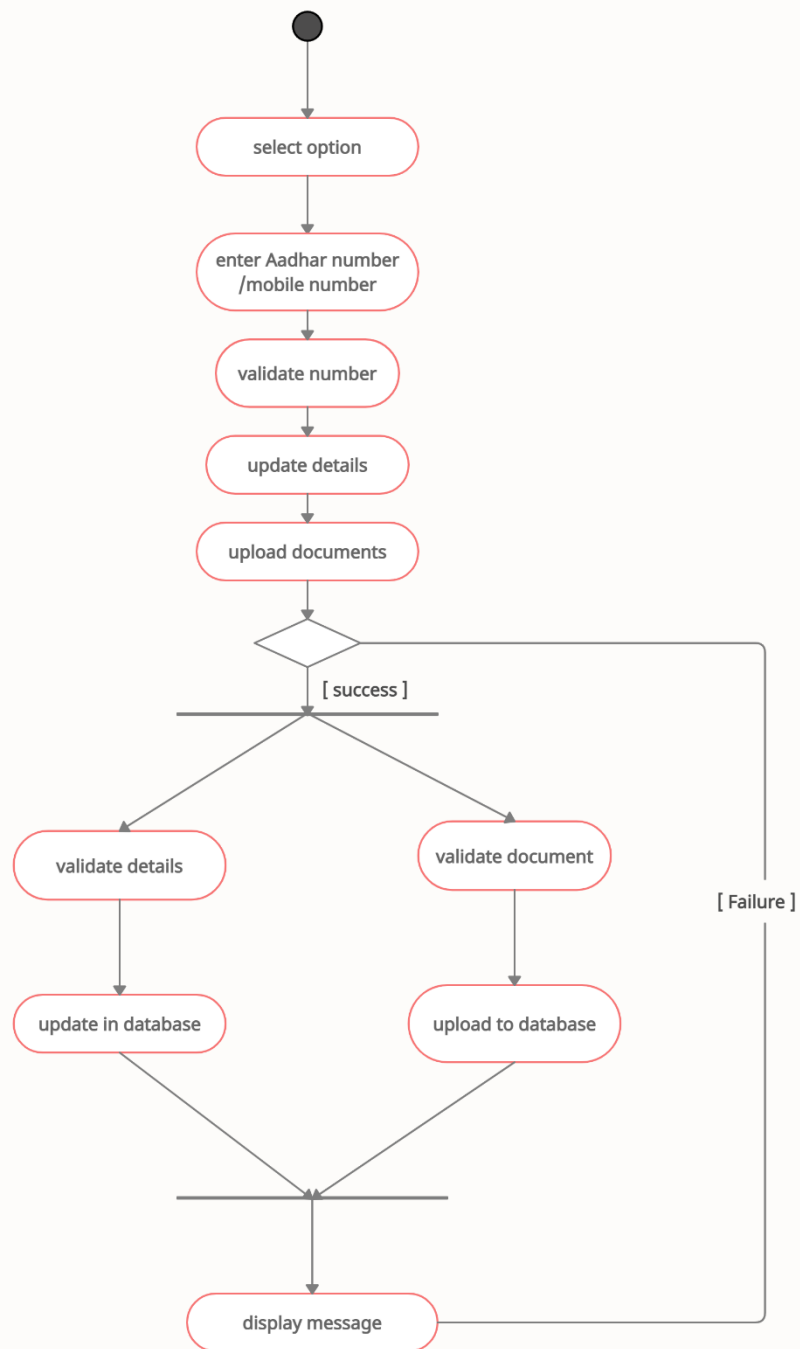




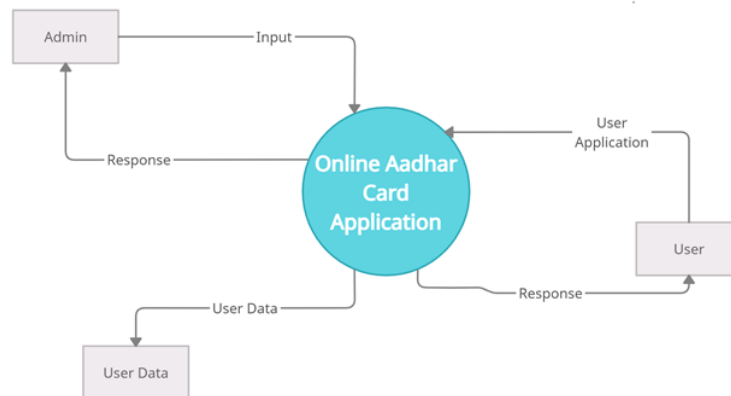
- **Activity Diagram :-**



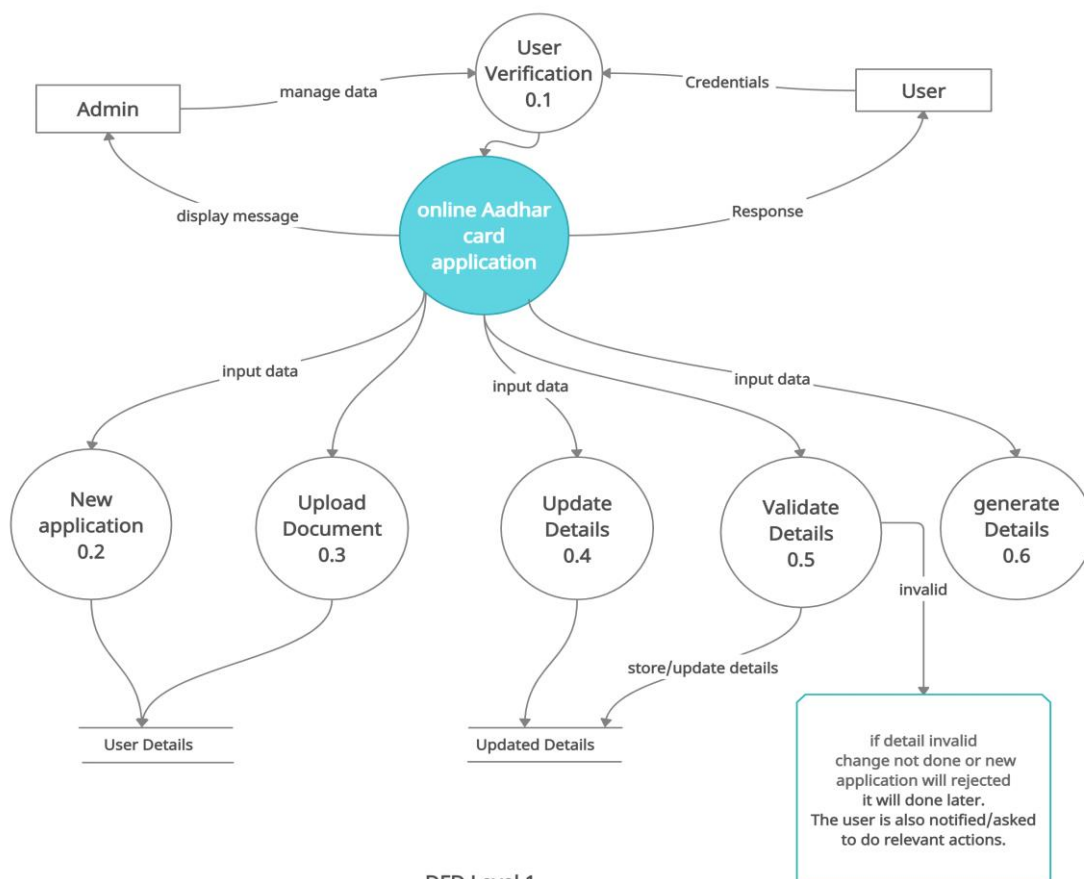
online Aadhar card application (update details)



- **Data Flow Diagrams: -**



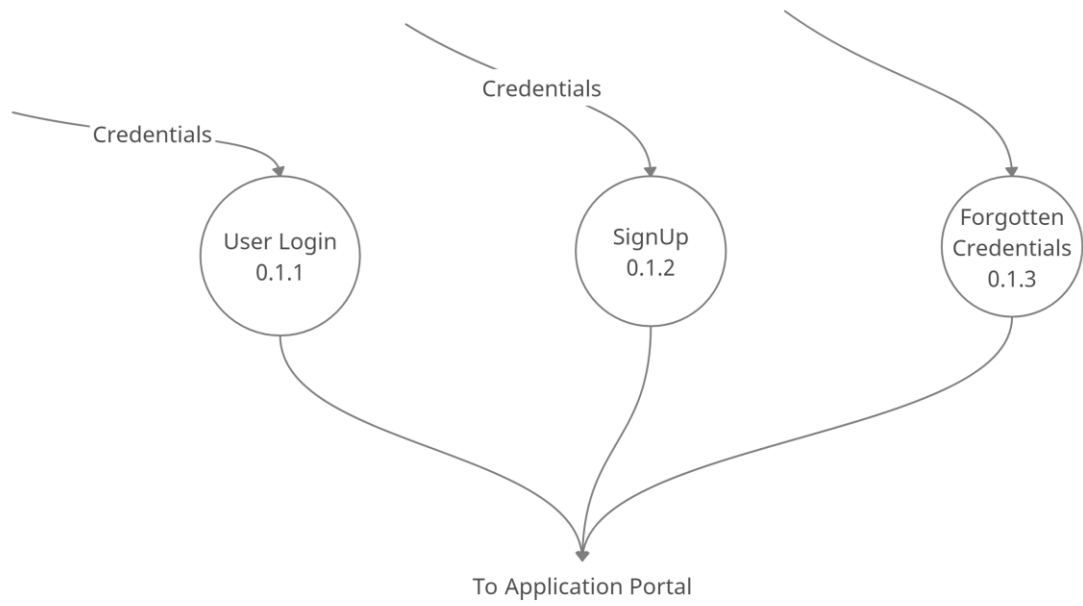
DFD Level 0



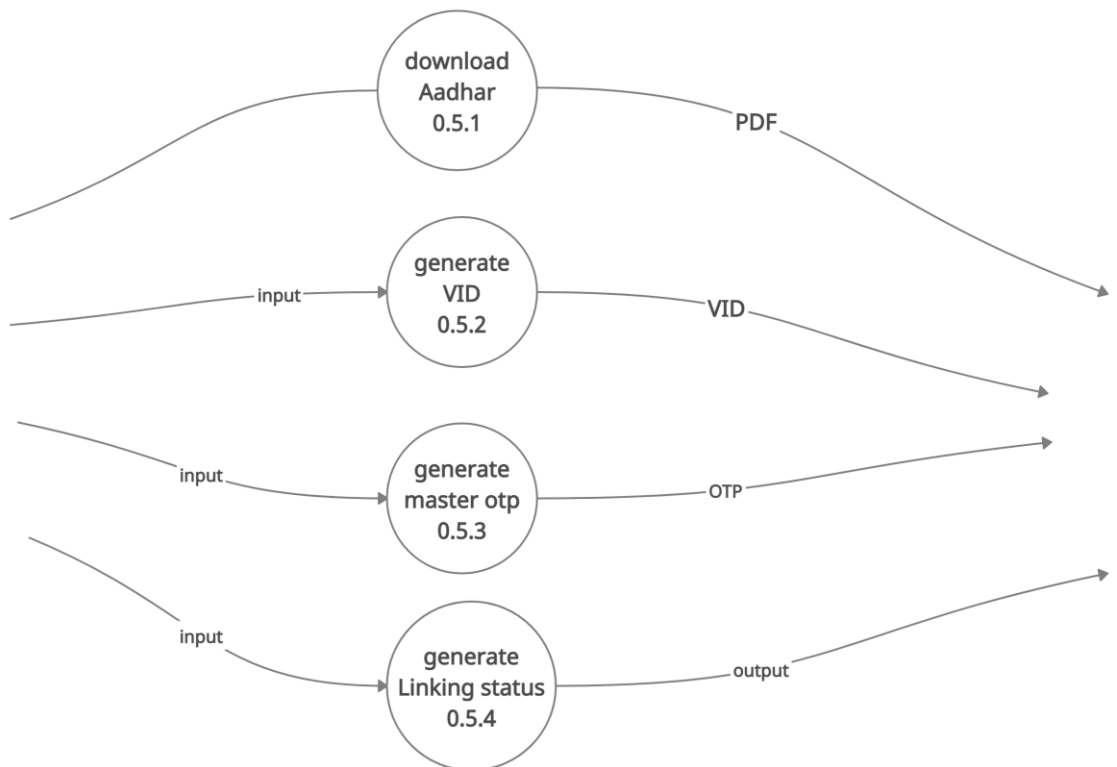
DFD Level 1



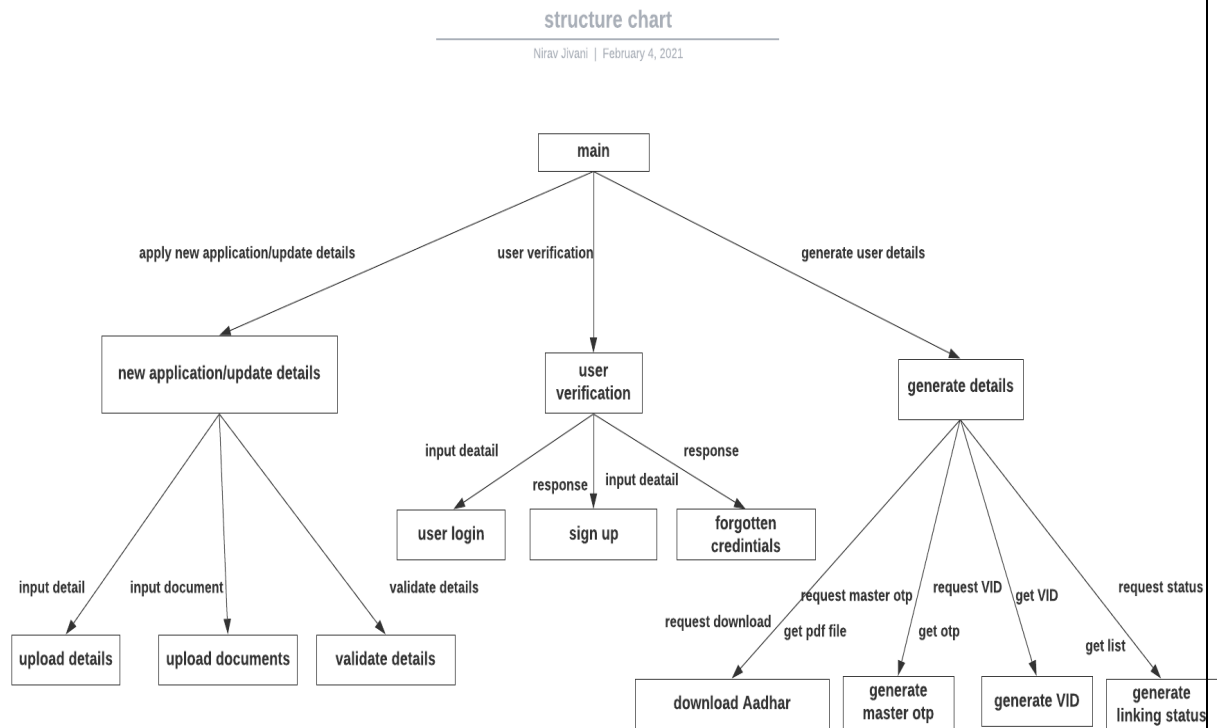
### User Verification 0.1



### generate Details 0.5



## Structure Diagram :-



- **Data Dictionary :-**

## Auth\_User

Name of Field	Datatype	Length
id	int	11
Password	Varchar2	128
Last_login	datetime	6
Is_superuser	tinyint	1
username	Varchar2	150
Last_name	Varchar2	150
email	Varchar2	254
Is_staff	tinyint	1
Is_active	tinyint	1
Date_joined	datetime	6

## User Details

Name Of Field	Data Type	Length
id	int	11
name	Varchar2	20
gender	Varchar2	10
address	Varchar2	100
Relationtype	Varchar2	20
relativename	Varchar2	20
birthaddress	Varchar2	20
birthdate	date	
number	bigint	20
email	Varchar2	254
rdate	date	
fdate	date	
Place	Varchar2	20
Addf	Varchar2	100
Addfname	Varchar2	20
Agef	Varchar2	100
agefname	Varchar2	20
phf	Varchar2	100
vid	bigint	20

## **5. Implementation Details**

### **4.1 Description of Modules :-**

#### **1. Register User Module**

Basic information of user is taken by system and stored in database.

#### **2. Login User Module**

Users are able to login themselves. System logs user in, then and only then user can use other functionalities of system.

#### **3. Apply new Aadhar Module**

User can fill all require form for new application and get vid number for reference.

#### **4. update details Module**

User can select option which field he/she want to update and then give new details and require document.

#### **5. download Aadhar Module**

User have to enter Aadhar number , register mobile number and one time password verification and get their Aadhar card ready.

#### **6. Generate Aadhar number**

User can enter vid number ,register mobile number and one time password verification and get their Aadhar number.

#### **7. generate master otp**

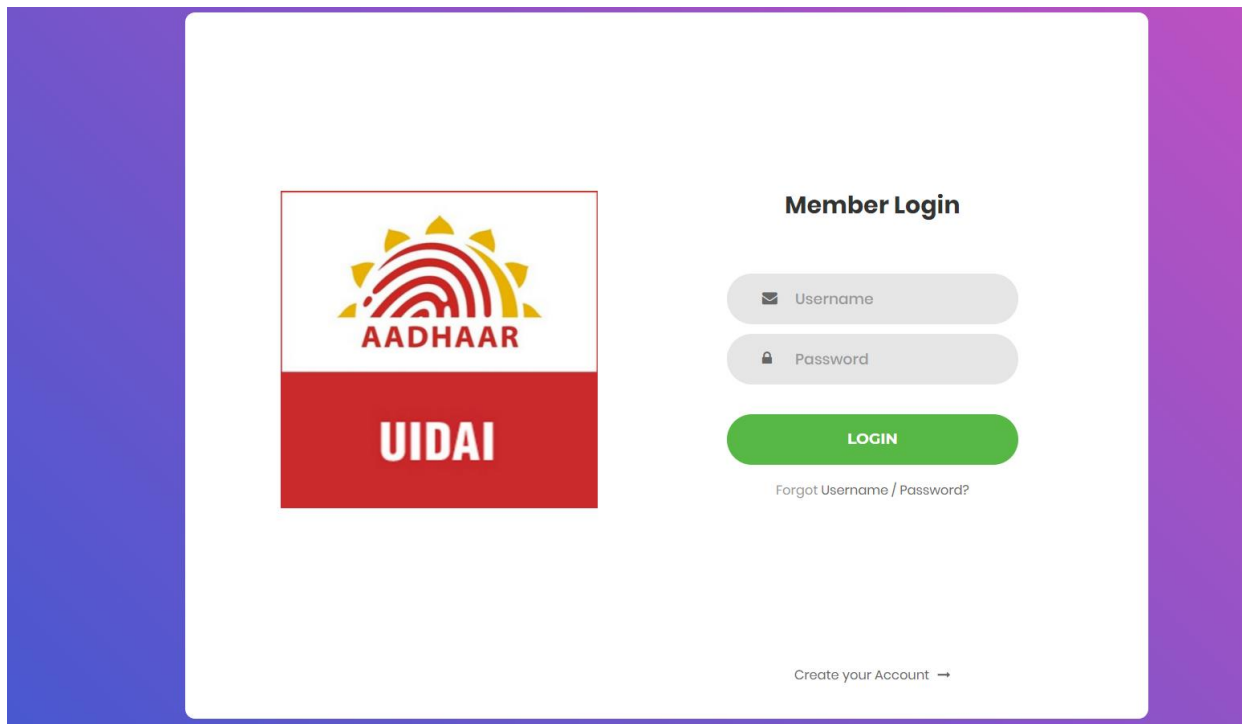
User use master otp as one time password at every require filed.

## **6. Testing::manual**

<b><u>Sr.no</u></b>	<b><u>Test case</u></b>	<b><u>Expected result</u></b>	<b><u>Actual result</u></b>	<b><u>status</u></b>
1.	Registration with already register number/user name	Display message user name/ email already register	Pop message: 'username/number already register'	Success
2.	Registration with correct Credentials	System should waiting for OTP verification.	Asked for OTP which sent to user's mobile number	Success
3.	Login with incorrect Credentials	System should given message :- 'incorrect user name or password'	Pop up message: 'user name and password must be correct'	Success
4.	Login with correct credentials	System should Redirect to home of the web	Redirect to home page of user	Success
5.	Forgot Password	System should send otp to register mobile number and verify it	s OTP which sent to user's mobile number	Success
6.	Otp verification fail	System should display message invalid otp please enter valid otp	Display message: 'invalid otp please enter valid otp '	Success
7.	Download Aadhar/ Update Aadhar number verification fail	System should display message invalid number or number doesn't register	display message: ' invalid number or number doesn't register'	Success
8.	Number verification success	System should display According Functionality page	Redirect to page According to functionality	Success

## **7. workflow/ Screenshots**

### **Login panel:**



**Member Login**

Username

Password

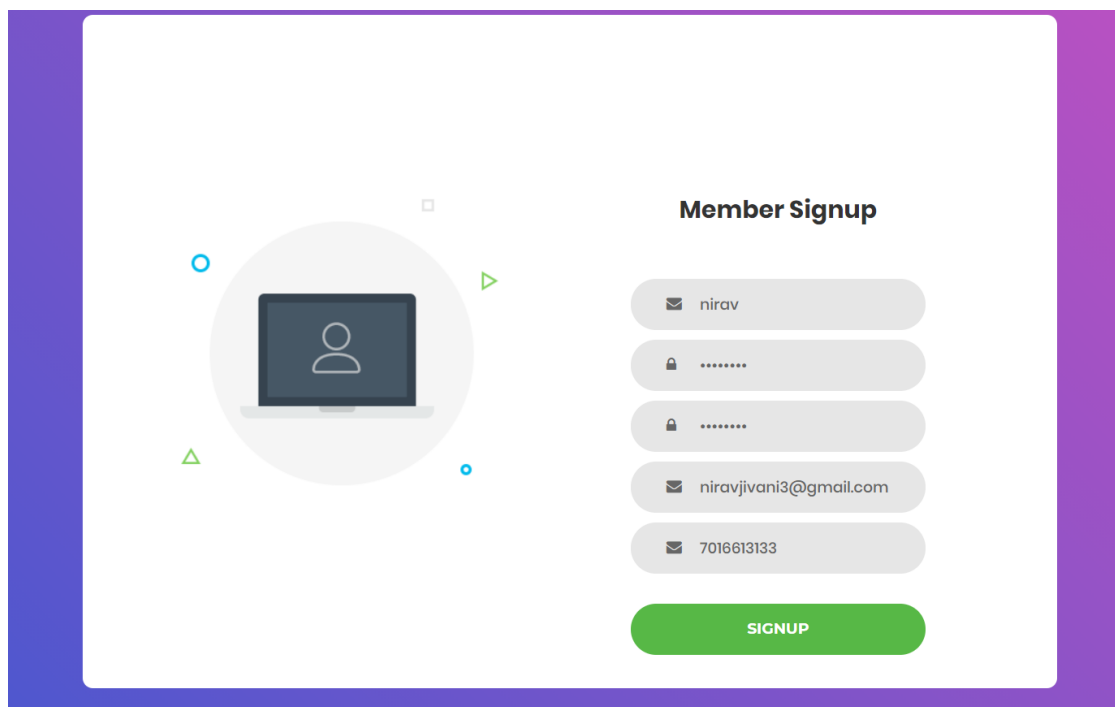
**LOGIN**

[Forgot Username / Password?](#)

[Create your Account →](#)

### **I.Create/signup:**

#### **1. panel**



**Member Signup**

Username nirav

Password \*\*\*\*\*

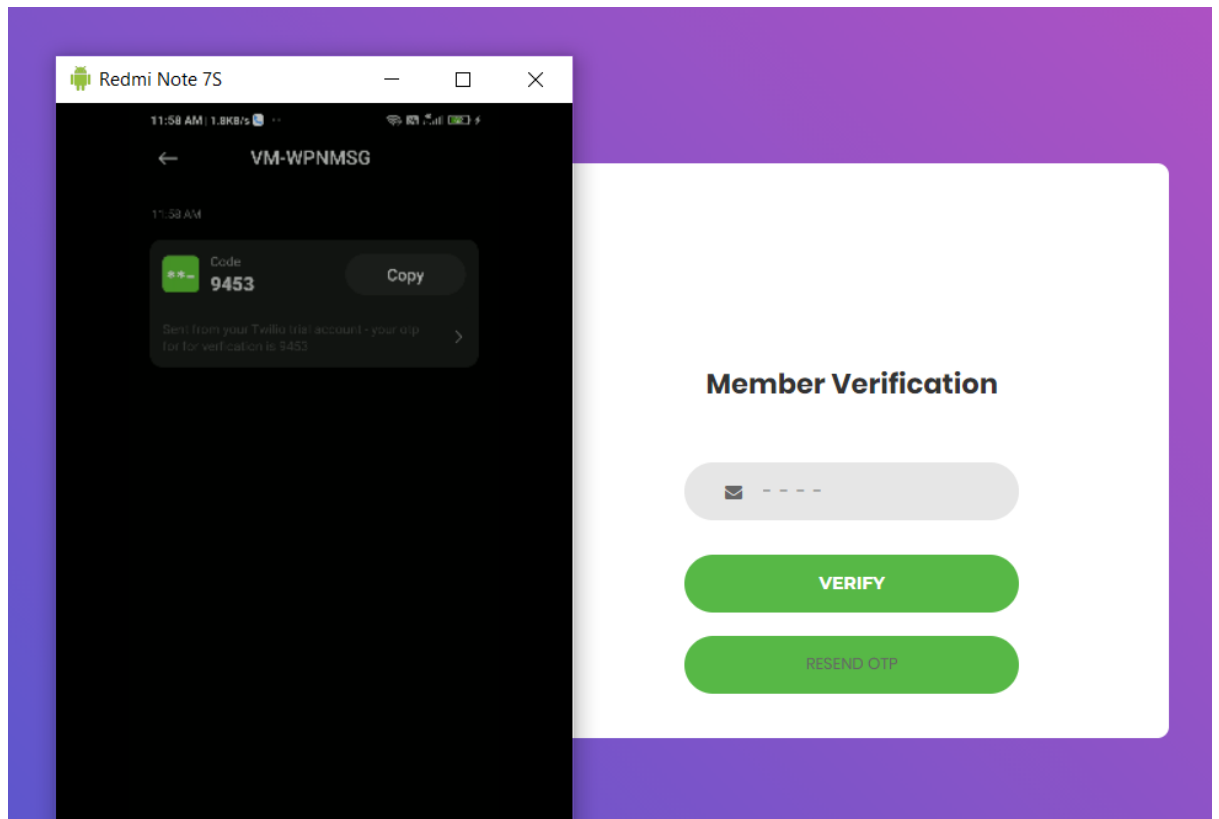
Password \*\*\*\*\*

Email niravjivani3@gmail.com

Mobile Number 7016613133

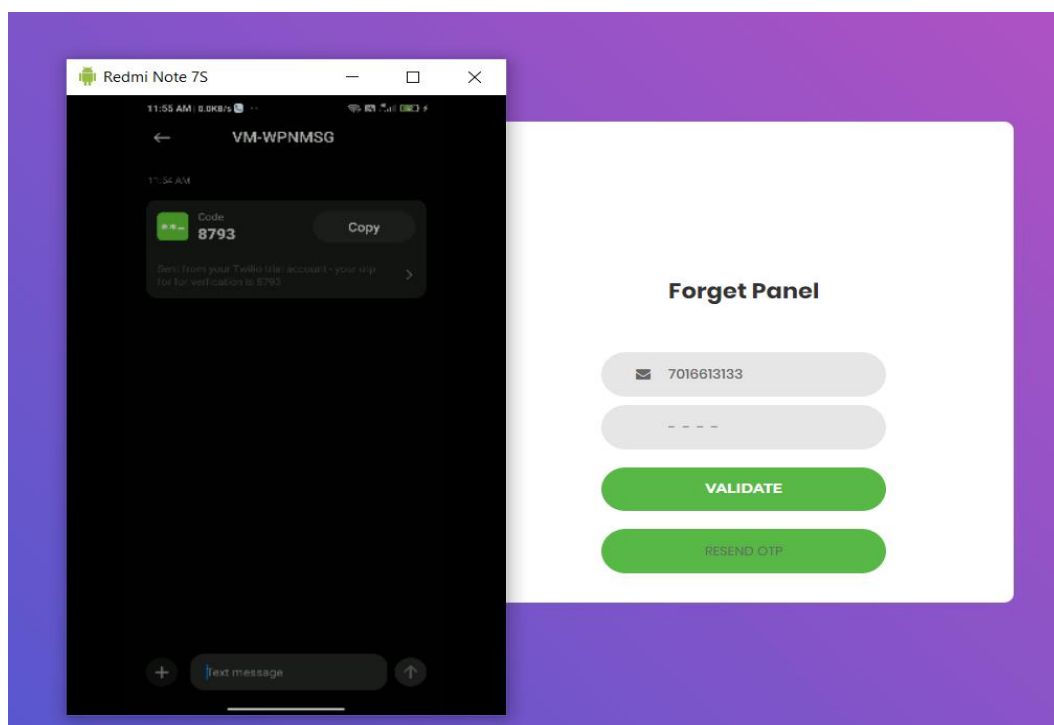
**SIGNUP**

#### **2. Mobile number verification:**

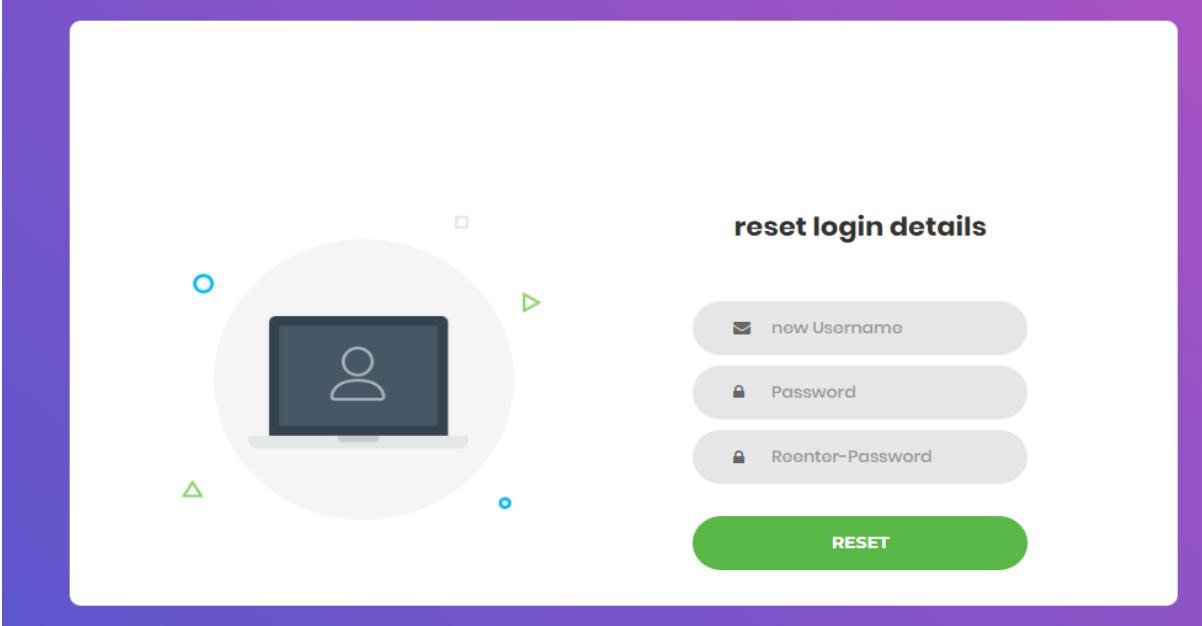


## II. Forgot panel:

### 1. Mobile verification



## 2. reset panel



The panel features a central illustration of a laptop with a user icon on its screen, surrounded by four small geometric shapes (a square, a triangle, a circle, and another triangle) in light blue and green. To the right of the illustration, the text "reset login details" is displayed in a bold, black font. Below this text are three input fields, each with a lock icon on the left and a placeholder text: "new Username", "Password", and "Reenter-Password". At the bottom right of the panel is a large, rounded green button with the word "RESET" in white capital letters.

**reset login details**

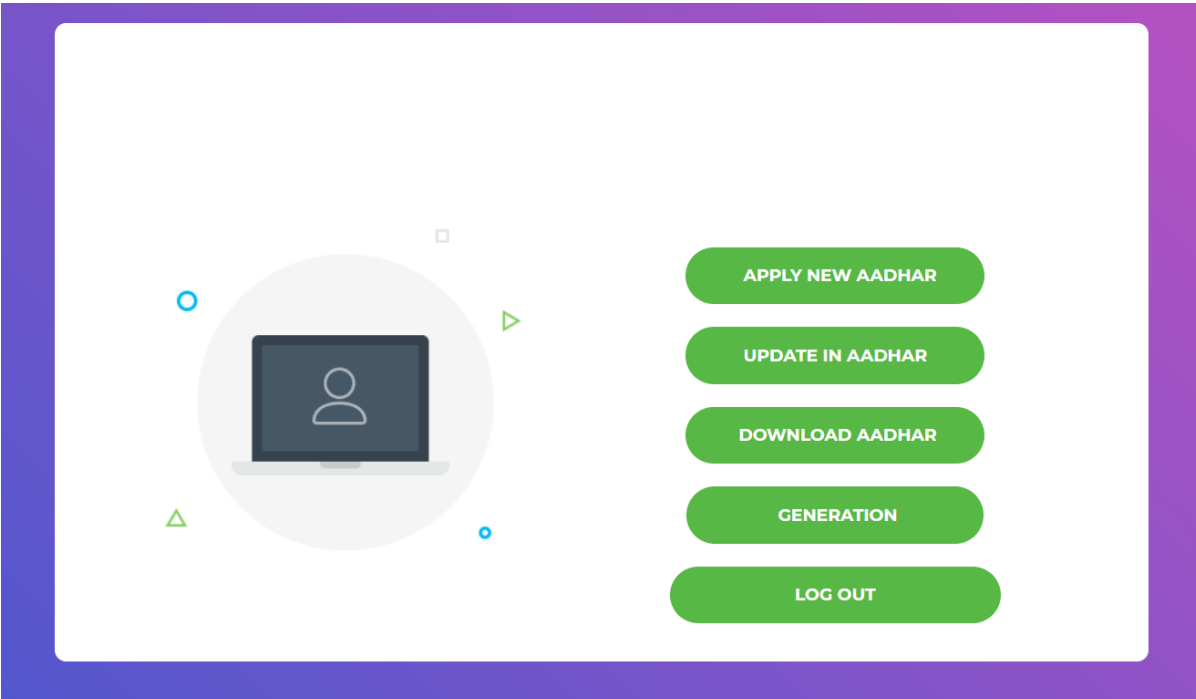
new Username

Password

Reenter-Password

**RESET**

## Logged in:



The panel features a central illustration of a laptop with a user icon on its screen, surrounded by four small geometric shapes (a square, a triangle, a circle, and another triangle) in light blue and green. To the right of the illustration are five stacked, rounded green buttons with white text: "APPLY NEW AADHAR", "UPDATE IN AADHAR", "DOWNLOAD AADHAR", "GENERATION", and "LOG OUT".

APPLY NEW AADHAR

UPDATE IN AADHAR

DOWNLOAD AADHAR

GENERATION

LOG OUT



### III. New Aadhar card:

#### 1. address

**POSTAL ADDRESS**

HOUSE NO.  
Enter Your house no

STREET/AREA/LOCALITY  
Enter Your area/street

TOWN/VILLAGE  
Enter Your town/village

POST OFFICE  
Enter Your Post office

DISTRICT  
Enter Your district

PINCODE  
Enter pin code

STATE  
Enter The State

I AM ORDINARILY RESIDENT AT THE ADDRESS GIVEN AT ABOVE SINCE  
dd-mm-yyyy

Next →

#### 2. birth

**Birth Detail**

TOWN/VILLAGE  
Enter Your town/village

DISTRICT  
Enter Your district

PINCODE  
Enter pin code

STATE  
Enter The State

DATE OF BIRTH  
dd-mm-yyyy

Next →

#### 3. relative details

## Personal Details

NAME  
Enter the name

SURNAME  
Enter Your surname

GENDER OF APPLICATE  
Male ▾

## Relative Details

TYPE OF RELATION  
Father ▾

NAME OF RELATIVE  
Enter your relative name

SURNAME OF RELATIVE  
Enter Your relative surname

Next →

## 4. additional details/declaration

## Additional Details

MOBILE NUMBER  
Enter the mobile number

EMAIL ID  
Enter Your email id

## Declaration

(✓) I HAVE NOT APPLIED FOR THE INCLUSION OF MY NAME IN THE ELECTORAL ROLL FOR ANY OTHER CONSTITUENCY.

(✓) MY NAME HAS NOT ALREADY BEEN INCLUDED IN THE ELECTORAL ROLL FOR THIS OR ANY OTHER ASSEMBLY/ PARLIAMENTARY CONSTITUENCY

PLACE  
Enter place

DATE  
dd-mm-yyyy



Next →

## 5. document upload

## Upload Document

ADDRESS PROOF

any bill type ▾

Choose File

No file chosen

AGE PROOF

PAN Card ▾

Choose File

No file chosen


PHOTOGRAPH

Choose File

No file chosen

SUBMIT →

## 6. final submission

FORM 6A	
FORM FOR INCLUSION IN AADHAR CARD AND CONFIRM INDIAN CITIZENSHIP	
To , The Aadhar card registration officer , gujrat Assambely	
I request that my name be included in the Aadhar card system for the above Constituency (*first time applier) Particulars in support of my claim inclusion in the Aadhar card enrolls are given below-	
photo	
Name	nirav jivani
Gender	Male
address	24- near new water tank,mangal para , gadhada road , botad botad botad gujrat 384710
Relation Type	Father
Relative Name	Dhanjibhai jivani
Birth Place	Bhambhan botad gujrat 384710
Birth Date	2002-01-10
Mobile Number	7016613133
Email	niravjivani3@gmail.com
<b>DECLARATION:</b>	
I hereby declare that to the best of knowledge and belief: (i) I am citizen of India and place of my birth is Village/Town <b>Bhambhan botad gujrat 384710</b> (ii) I am ordinarily resident at the address given at (h) above since <b>2021-03-24</b> (iii) I have not applied for the inclusion of my name for aadhar card roll for any other Constituency	
Applicant Place:botad Applicant Date:2021-03-30	
<div>VERIFIED</div>	

## 7. vid number

① 127.0.0.1:8000/submitform?csrfmiddlewaretoken=iGFUyFb4t2m3WCOZT2j9Wnqximp0ltCVuyCY9EVFNzez0SlpWqolZinwonFGC4xc

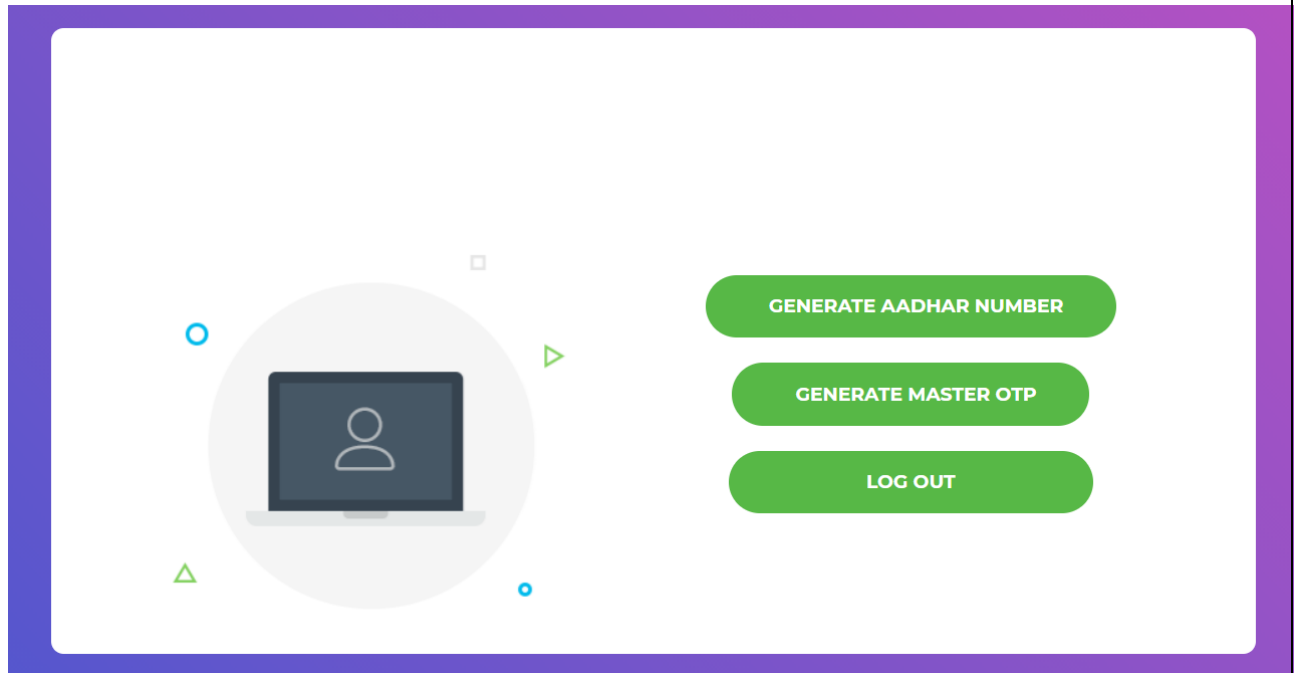
127.0.0.1:8000 says

your registration sucessfully.... your vid/aadhar card number is  
586205564541617082722 pelase first get your Aadhar number from  
generation section using vid

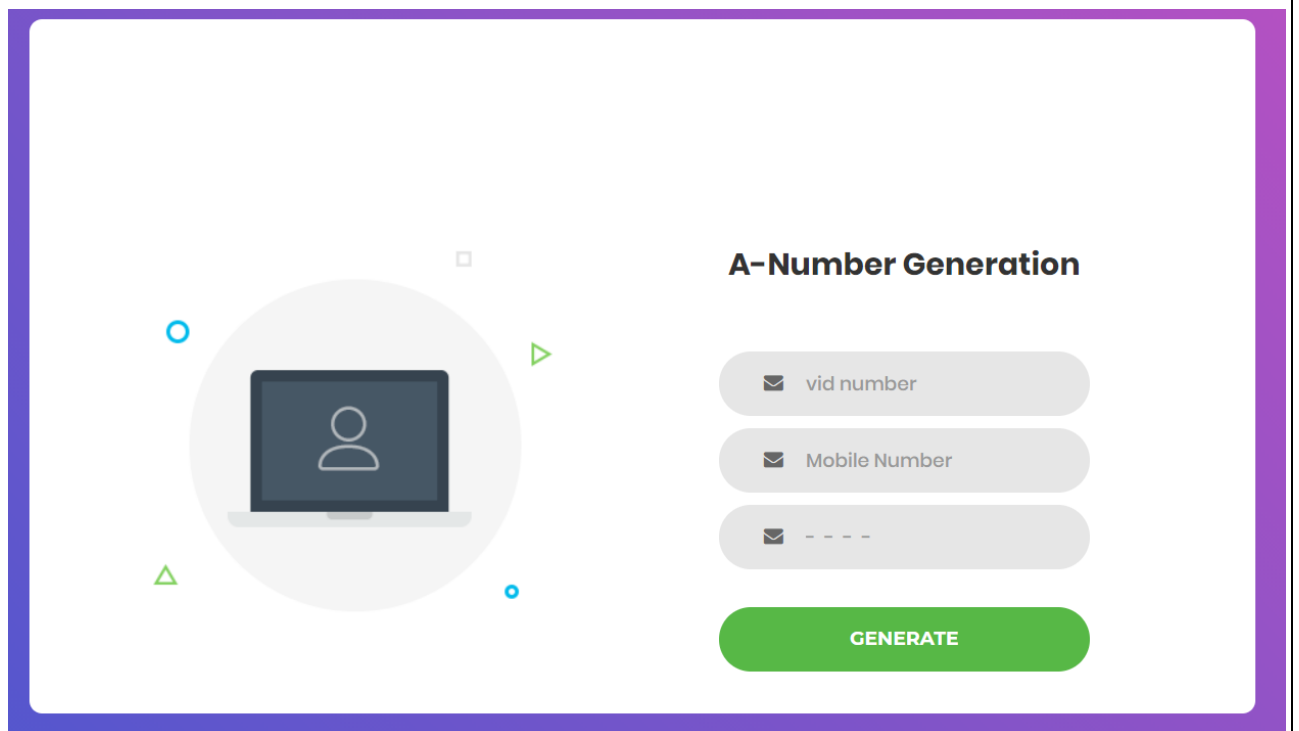
OK

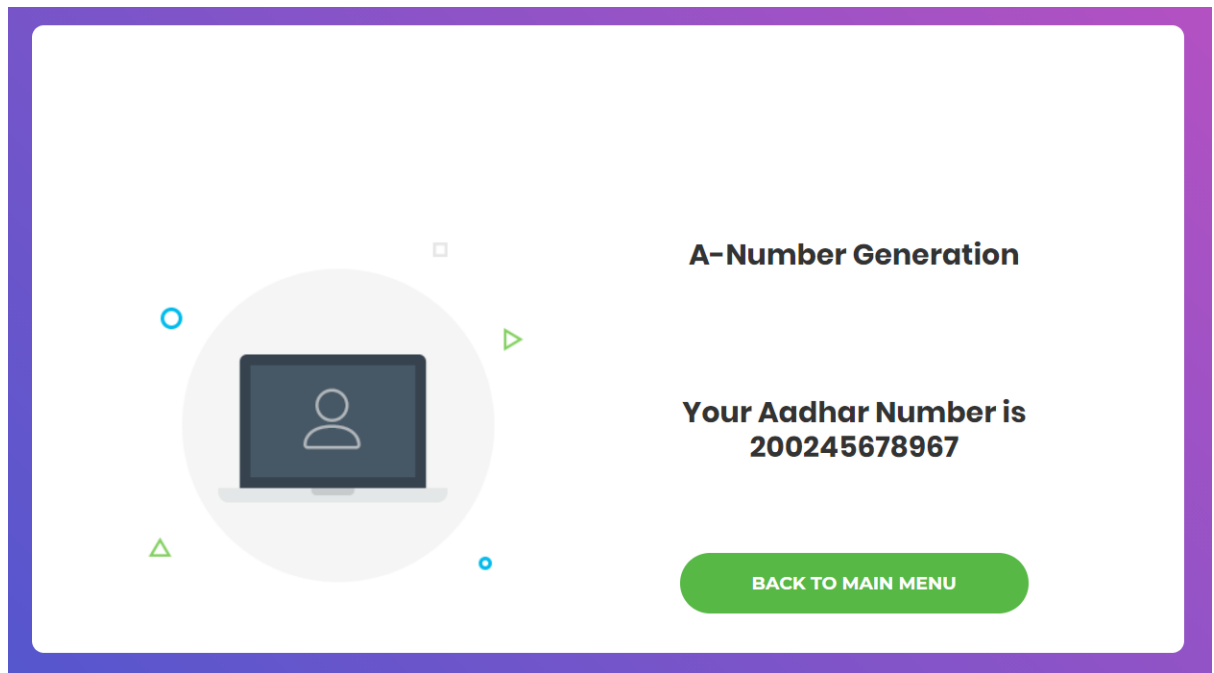
## IV. generation

### 1. Portal

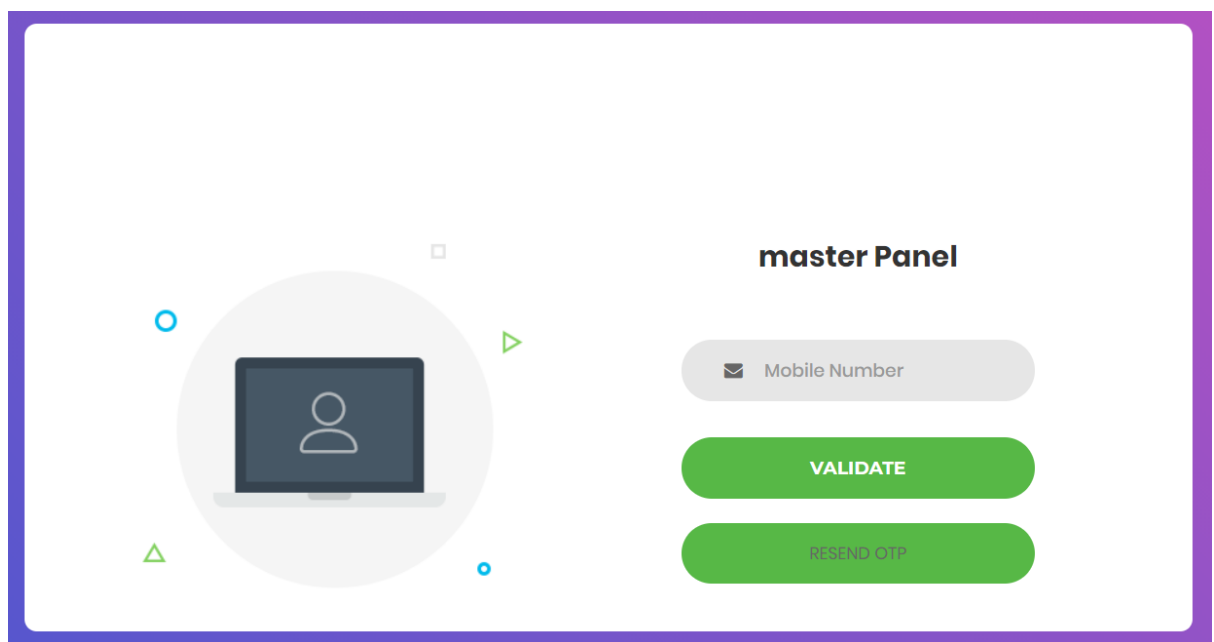


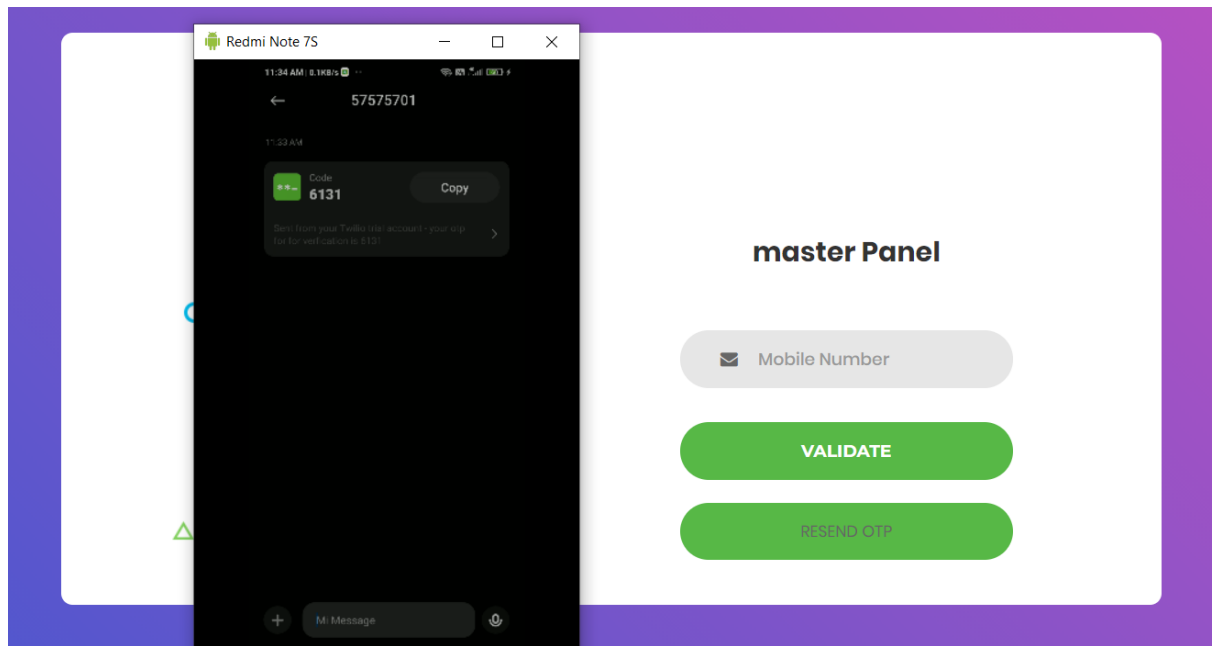
### 2. Generate number





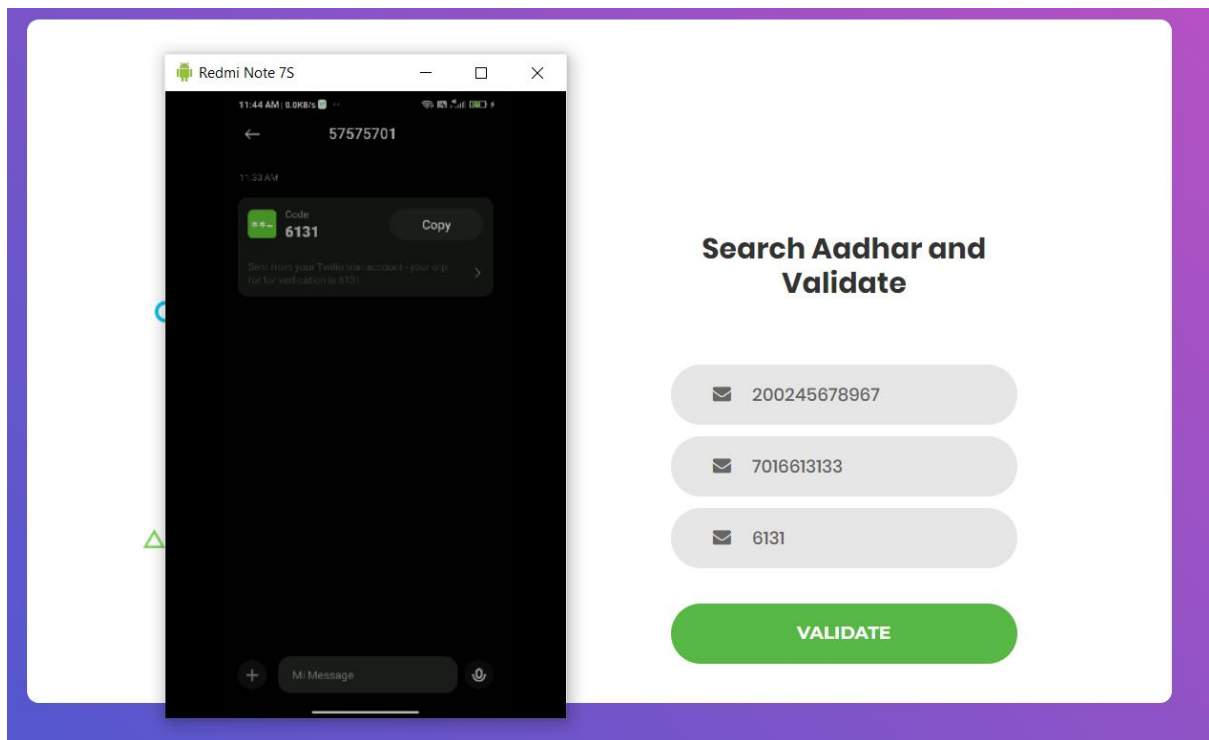
### 3.master otp generation



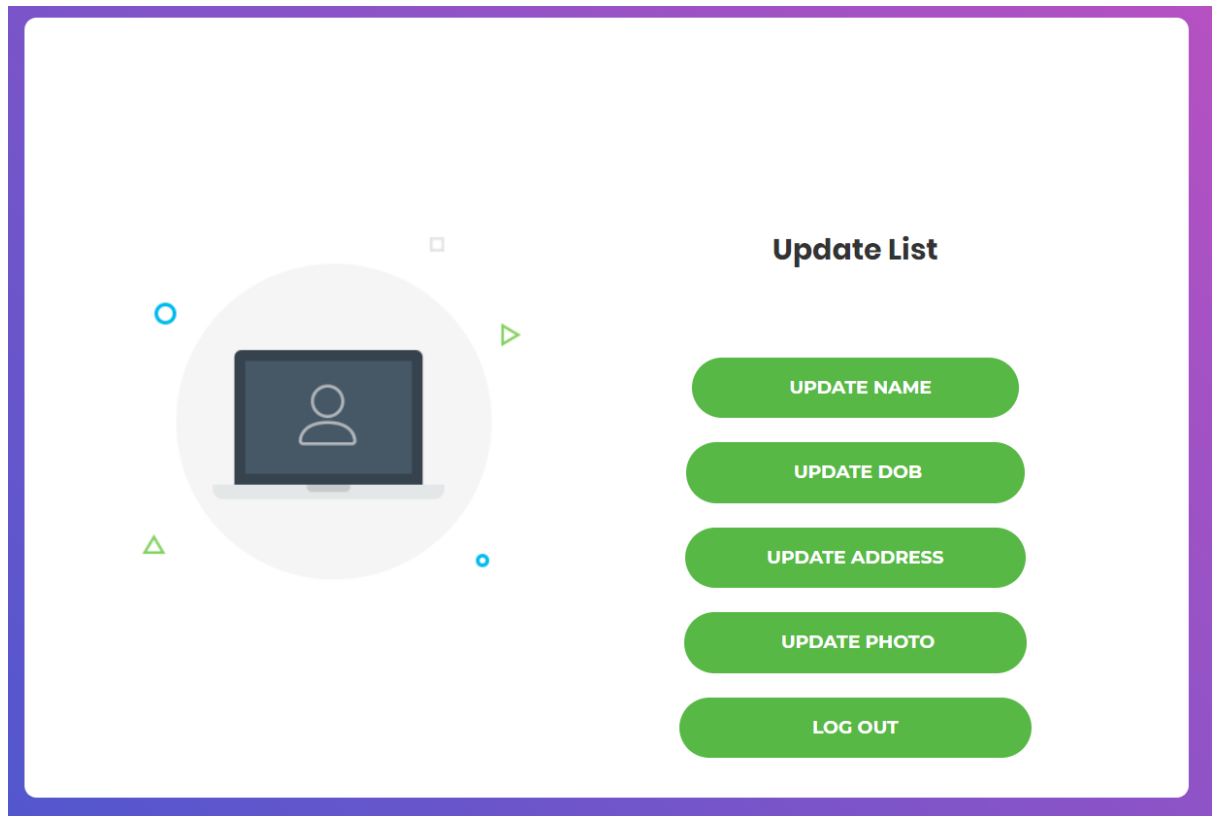


## V. update Aadhar

### 1. verification



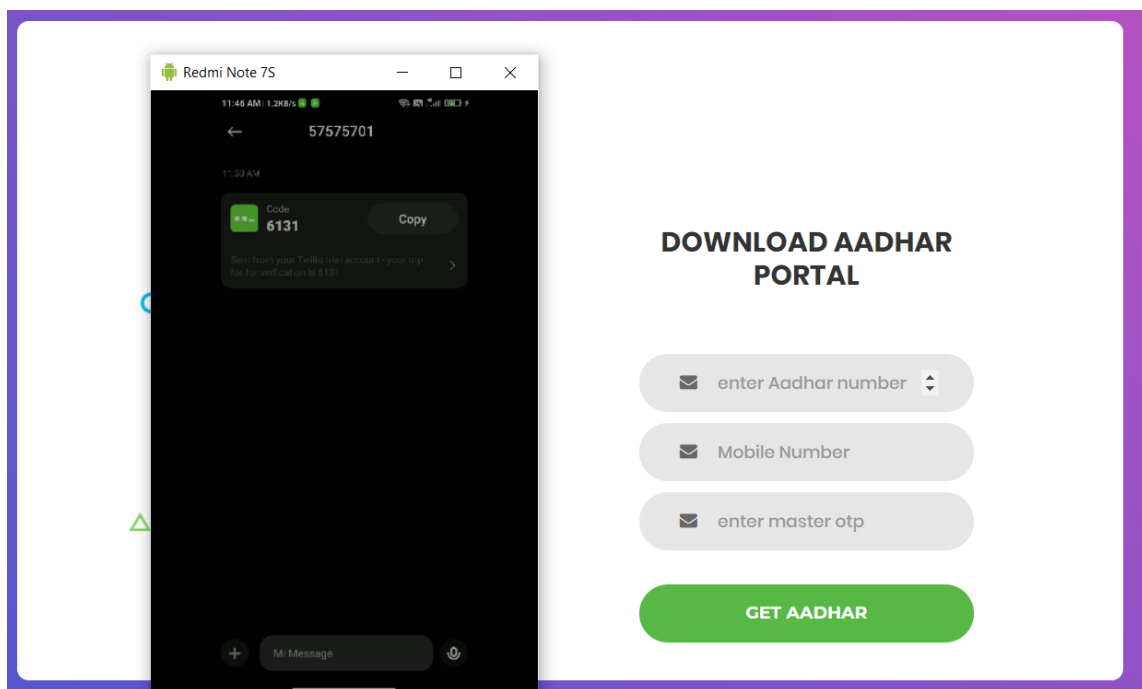
## 2. update panel



The update panel features a central graphic of a laptop with a user icon on its screen, surrounded by four small geometric shapes (a square, a triangle, a circle, and another triangle) in light blue and green. To the right of this graphic is the title "Update List" in bold black text. Below the title are five green rounded rectangular buttons stacked vertically, each containing white text: "UPDATE NAME", "UPDATE DOB", "UPDATE ADDRESS", "UPDATE PHOTO", and "LOG OUT".

## VI. download/view Aadhar

### 1. verification




The verification interface is displayed within a window titled "Redmi Note 7S". It shows a mobile app screen with a dark background. At the top, the time is 11:48 AM and the date is 1/29/15. Below this, the number "57575701" is displayed. A green box contains the word "Code" and the number "6131", with a "Copy" button next to it. Below the code box, there is a message: "Sent from your Twilio trial account - your otp for verification is 6131". To the right of the mobile screen, the title "DOWNLOAD AADHAR PORTAL" is in bold black text. Below the title are three light gray rounded rectangular input fields, each with a small envelope icon on the left and placeholder text: "enter Aadhar number", "Mobile Number", and "enter master otp". At the bottom of these fields is a green rounded rectangular button with the text "GET AADHAR".



**2. view Aadhar front:**

Congratulation Your Aadhar is ready

Aadhar Card



Name: nirav jivani  
Gender: Male  
BirthDate: Jan. 10, 2002  
Mobile Number: 7016613133

Number:200245678967

VERIFIED

**Move arrow to card and flip**

Congratulation Your Aadhar is ready


Address

24- near new water tank,mangal para , gadhada road , botad botad botad  
gujrat 364710


Resident of India


VERIFIED

## Logout:



### Member Login

 Username

 Password

LOGIN

[Forgot Username / Password?](#)

[Create your Account →](#)

## **8. Conclusion**

By implementing online Aadhar card application web, we can archive a goal of digital India and new Aadhar get very rapidly instead of offline application. It also help user to update their details at home or any place and any time. This web also helpful in this covid-19 situation to avoid crowd at gov corporation. User can also download digital copy of their Aadhar card. It can use print Aadhar card if user have to submit Aadhar card copy and he/she forgot their physical Aadhar at home. This all point of view, this web app is very useful.

## **9. Limitation and future extension**

### **Limitation:**

This is very basic application. Less security for gov database and some background process done by gov employee is ignored. like user document verification, physical Aadhar card does not sent to user address.

### **Future Extension:**

User interface will be improved to provide better interaction with system. Background processes and Thread execution will be efficient and process load will be reduced. We also add some more functionality like Aadhar linking status with bank , Aadhar and voter id linking and more..

## **10. Bibliography**

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<https://www.w3schools.com/>

<https://stackoverflow.com/>

Search Engine: [www.google.com](http://www.google.com)