

A
PROJECT REPORT
ON

NATIONAL VOTER SERVICE PORTAL

By

SHINGALA SHUBHAM P. (CE-124) (19CEUOS159)
UNAGAR KEVAL V. (CE-139) (19CEUBG010)

B.Tech CE Semester - IV
Subject : SP

Guided by:

Prof. Brijesh S. Bhatt

Prof. Jigar Pandya

Prof. Pinkal Chauhan

Dept. of Comp. Engg.



Faculty of Technology
Department of Computer Engineering
Dharmsinh Desai University



**Faculty of Technology
Department of Computer Engineering
Dharmsinh Desai University**

CERTIFICATE

This is to certify that the practical / term work carried out in subject
Of **Software Project (SP)** and recorded in this
journal is the Bonafide work of

SHINGALA SHUBHAM P. (CE-124) (19CEUOS159)

UNAGAR KEVAL V. (CE 139) (19CEUBG010)

Of B.Tech semester **IV** in the branch of **Computer Engineering**
During the academic year **2020-21.**

Prof. Brijesh S. Bhatt
Professor
Dept. of Computer Engg.,
Faculty of Technology
Dharmsinh Desai University, Nadiad

Dr. C. K. Bhensdadia,
Head,
Dept. of Computer Engg.,
Faculty of Technology
Dharmsinh Desai University, Nadiad

Contents:

1 Introduction.....	4
2 Software Requirement Specifications.....	6
3 Design.....	10
3.1 Use Case Diagram.....	10
3.2 Class Diagram.....	11
3.3 Data Flow Diagram.....	12
3.4 Structure Chart.....	13
3.5 Sequence Diagram.....	14
3.6 Activity Diagram.....	16
4 Implementation Details	18
5 Screen-shots of the System	21
6 Conclusion	26
7 Limitations and Future Extensions of System.....	27
8 Bibliography	27

1.Introduction

NVSP (National Voter Service Portal) is Online Website to facilitate the Indian citizen. NVSP provides online registration facility besides all other services related to electoral registration. It contains mainly four to five modules namely Apply for new voter id card, Modification In voter id card, Track Application status, Forms, Know your profile details.

The first module is Registration for new elector. In this module user can apply for new voter id card by filling form and upload required documents. If all the data provided by user verified then he/she get voter id card at provided address. Second module is modification in voter id card. In this module user can apply to modify his/her details in voter id card like address, name etc. or deletion in electoral roll. Third module is track application status. In this module user can track his/her application status of voter id card. Fourth module is forms. In this module anyone can download the pdf form according to his/her requirement and fill data and submit offline. Fifth module is Know your details, in this module user can see his/her personal details, Assembly/Parliamentary constituency details, BLO/Electoral officers details, political party representative etc.

➤ **Tools/Technologies Used**

❖ **Technologies:**

- Django
- Python
- MySQL
- Bootstrap
- CSS
- HTML

❖ **Tools**

- Git
- Visual Studio Code

❖ **Platform**

- Local development server

2. Software Requirement Specifications

Users of the System :-

- + Citizens of India and NRIs (Non-resident Indians)
- BLO (Booth level Officer)
- ERO (Electoral Registration Officer)
- DEO (District Election Officer)

Functional requirements :-

1. Login / Registration

R.1.1: Create New Account

Description :- If user does not have an account on website then he/she has to create an Account.

Input:- Enter details like name, id, password, etc... to create an account.

Output:- Display success message.

R.1.2: Login

Description :- User can access this website by login using id and password.

Input:- Enter id and password.

Output:- If id and password are correct then all functionalities will be display, otherwise message will be display as "Invalid username or password".

To Use Any Of the below module & functionalities user must require login.

2. New Application / Modification

R.2.1: Apply for new voter id card

Description :- User can apply for new voter id card (Age ≥ 18) by filling form and uploading required documents. if all the details and documents are verified then user will get voter id card at provided address within 30 days.

R.2.1.1: Form Details

Input:- User have to enter all required details.

Output:- Display Success message and user will be redirected to next page.

Next function:- Upload documents.

R.2.1.2: Upload Documents

Input:- User has to upload all the required documents.

Output:- Display Success message and user will be redirected to next page.

Next function:- Preview details

R.2.1.3: Preview Details & Submit

Input:- User can see all the details and uploaded documents, if everything is correct then submit otherwise edit details.

Output:- if submitted then display success message otherwise redirected to form details in edit mode.

R.2.2: Modification in voter id card

Description :- User can apply to modify personal details like name, address, phone no, etc...

Input:- Enter EPIC (Electoral Photo Identity Card) number of voter id card.

Output:- If EPIC number matches in database than user can apply to modify details, otherwise display "Invalid epic number" message.

R.2.3: Document verification

Description :- Officer Check the documents uploaded by user and verified it and update application Status.

Input :- All request of new & modification application.

Output :- if all documents are correct then application status updated as "document verified" else Application status updated as "upload valid documents".

3. Forms

R.3.1: Download Forms

Description:- User can download form according to their requirements and submit it offline at office and do proceed offline also.

Input:- User have to select form according to their requirements.

Output:- PDF file.

R.3.2: Add form

Description :- Officer(Admin) adds new form.

Input :- Add form as pdf.

Output :- Form added successfully.

R.3.3: Remove/delete form

Description :- Officer(admin) can delete the form.

Input :- Select the form & delete.

Output :- Form deleted successfully.

4. Electoral roll

R.4.1: Search in electoral roll

Description :- User can search their names in electoral roll by epic number or by name & address.

Input :- Enter details.

Output :- If details found then user can see their details in electoral roll else message display as "Not found".

R.4.2: Download electoral roll

Description :- User can download electoral roll pdf by selecting state -> district -> assembly.

Input :- Select state -> district -> assembly

Output :- Pdf downloaded.

R.4.3: Add/remove details in electoral roll

Description :- Officer(admin) can add/remove details in any electoral roll pdf.

Input :- Select and edit details.

Output :- Details edited successfully.

5. User details & status.

R.5.1: Track application status

Description :- User can track status of his/her voter id card application.

Input:- Enter EPIC number of voter id card.

Output:- If EPIC number matches in database then user can see their application status details
otherwise display "Invalid epic number" message.

R.5.2: Add required details & documents.

Description :- if user find some remark to add/update some thing on their application status then they have to Add that details or documents.

Input :- Enter details or documents whichever is asked in application status.

Output :- Successful message.

R.5.3: Know Details

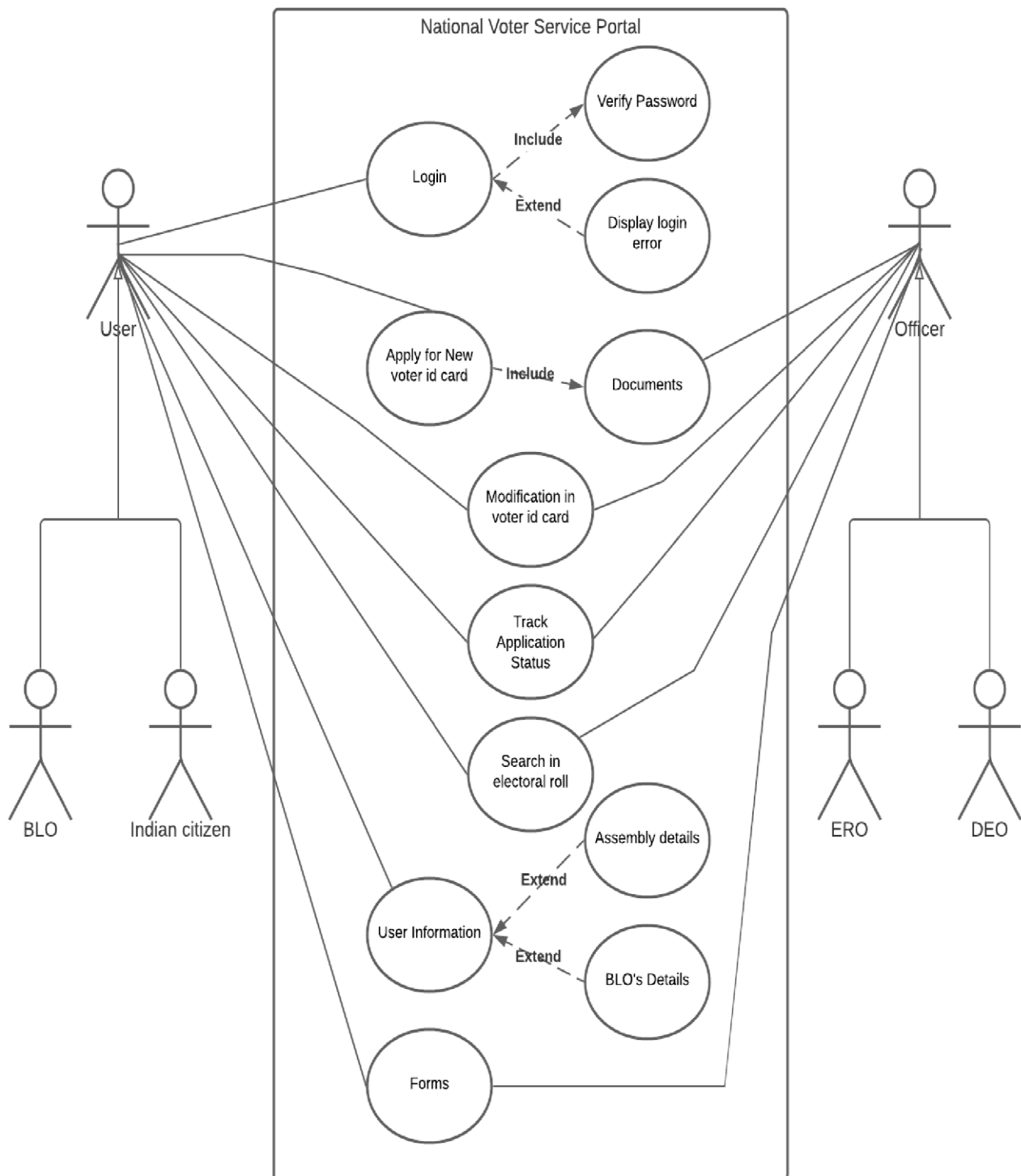
Description:- User can see his/her details, assembly / parliamentary constituency details, BLO Electoral officer's details, political party representative etc...

Input:- Enter EPIC number of voter id card.

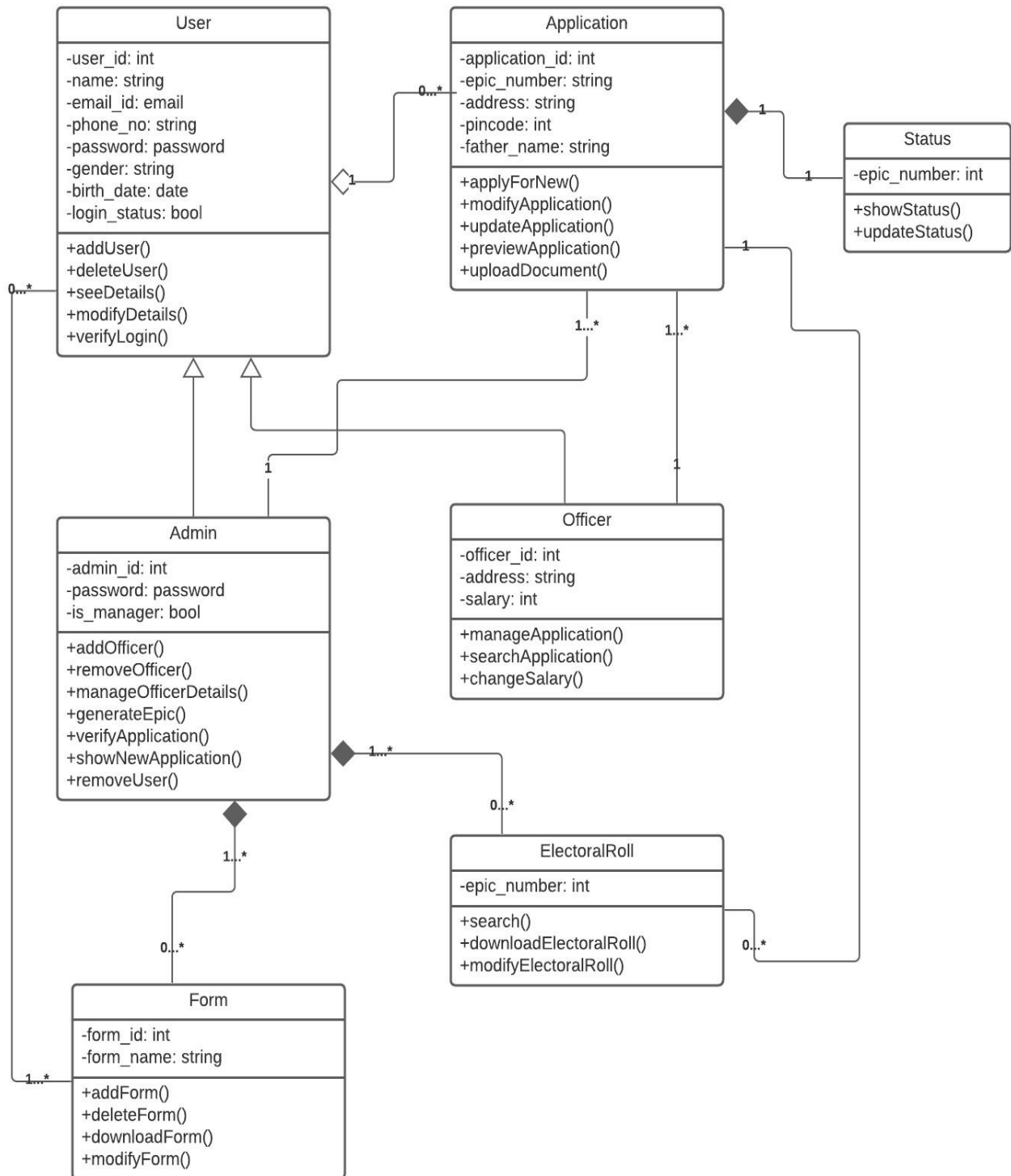
Output:- If epic number matches in database then user can see all the details, otherwise display "Invalid epic number" message.

3.Design

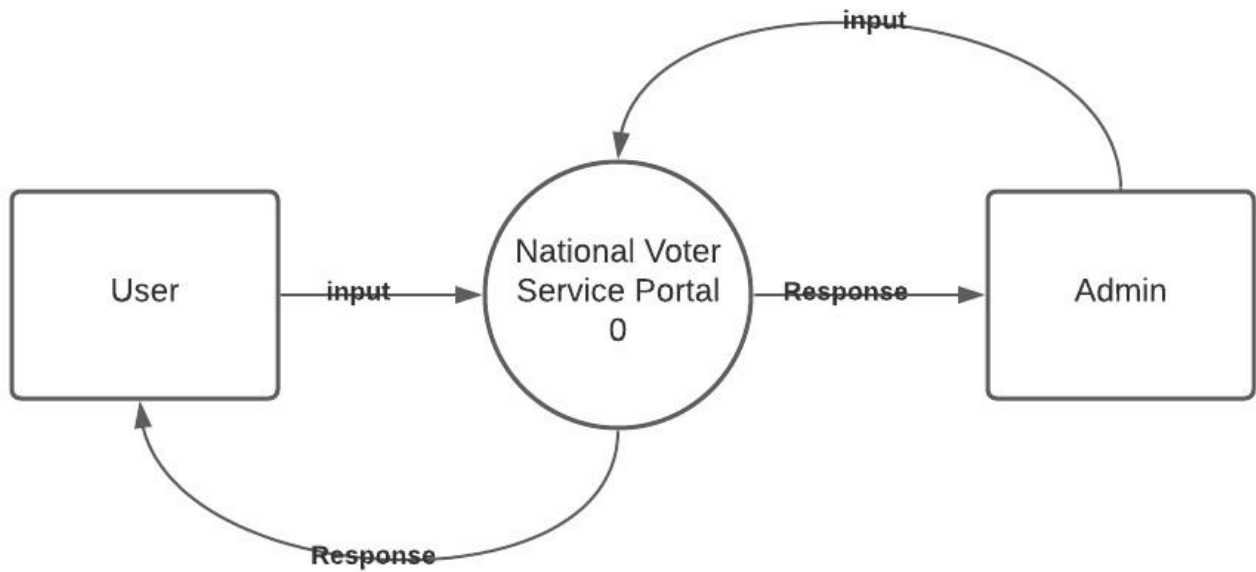
3.1 Use Case Diagram



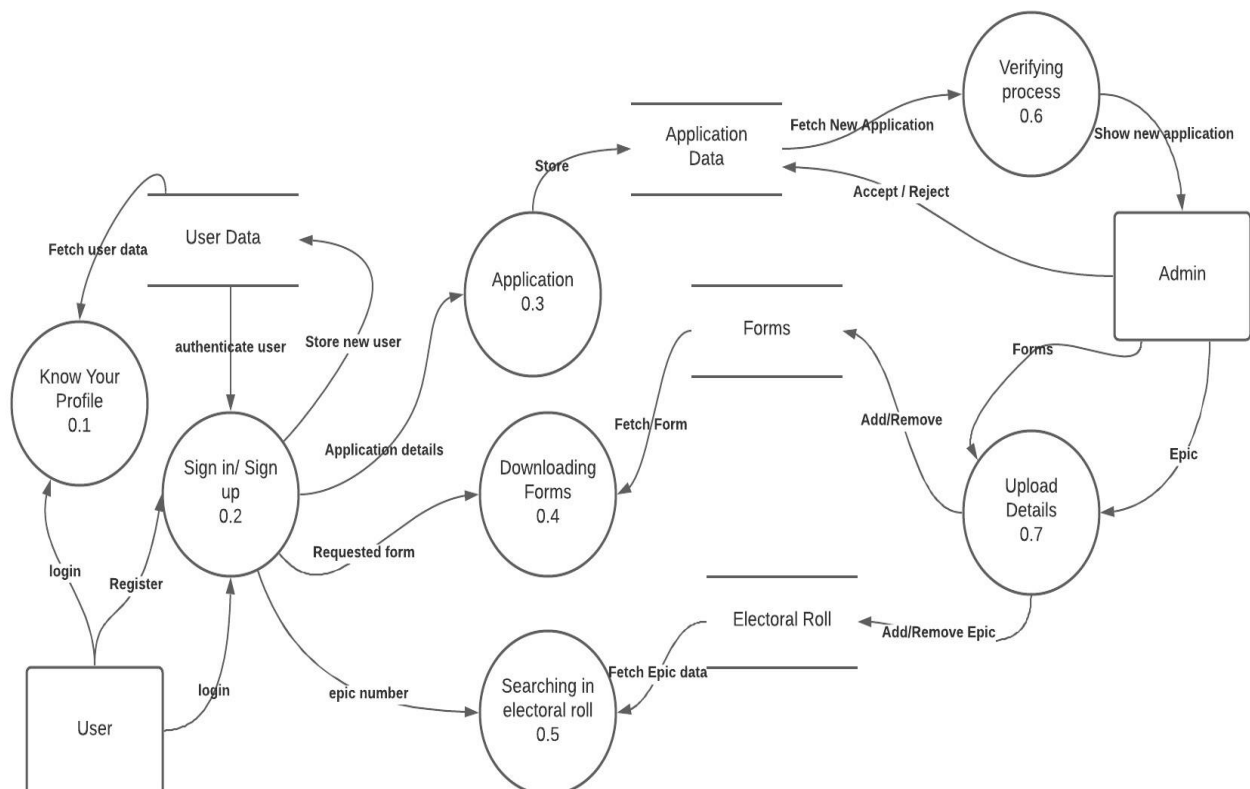
3.2 Class Diagram



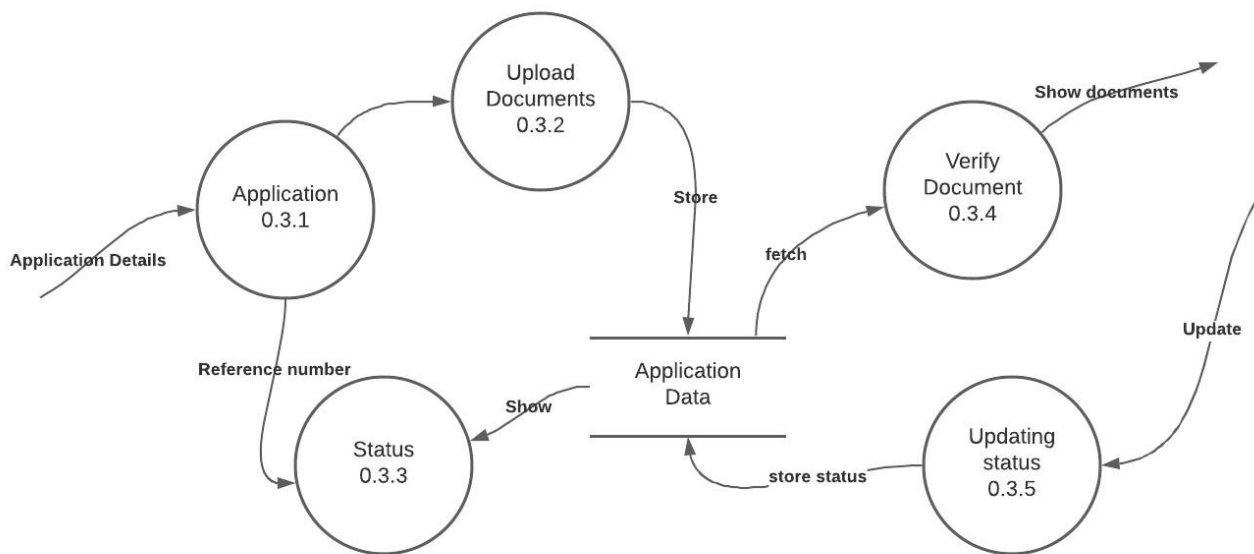
3.3 Data Flow Diagram



Context Level Diagram

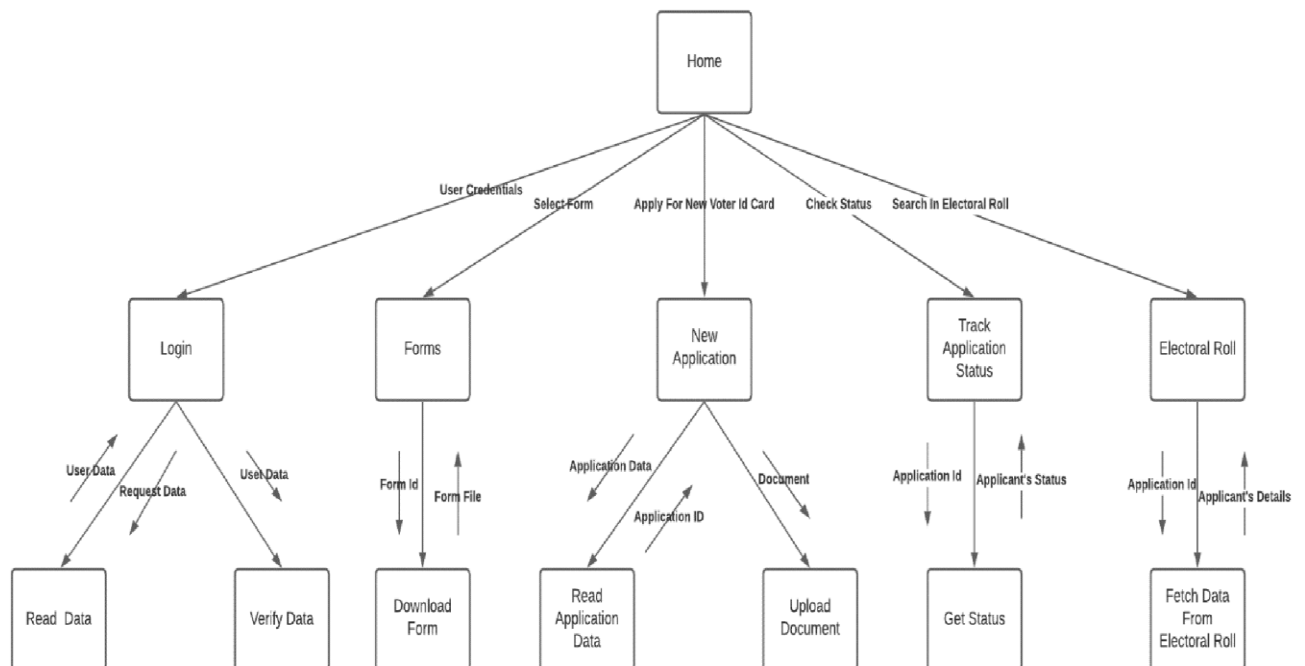


Level - 1 Diagram



Level - 2 Diagram

3.4 Structure Chart

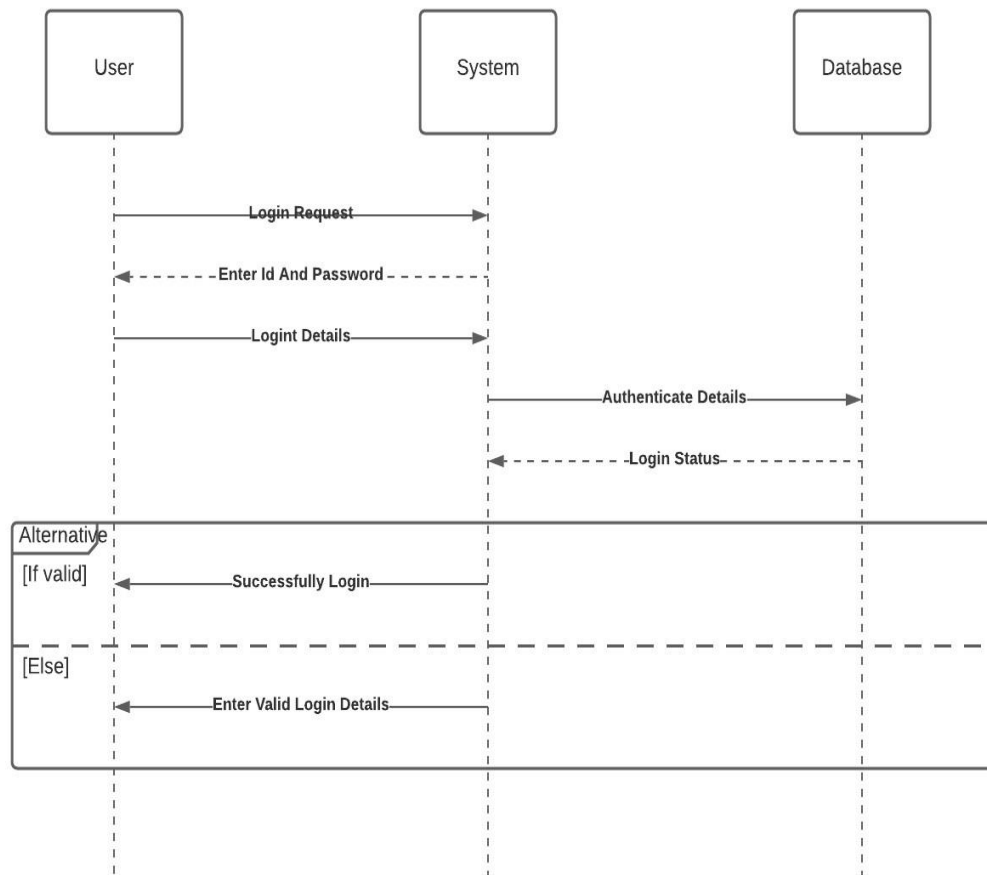


3.5 Sequence Diagram

Apply for new voter id card

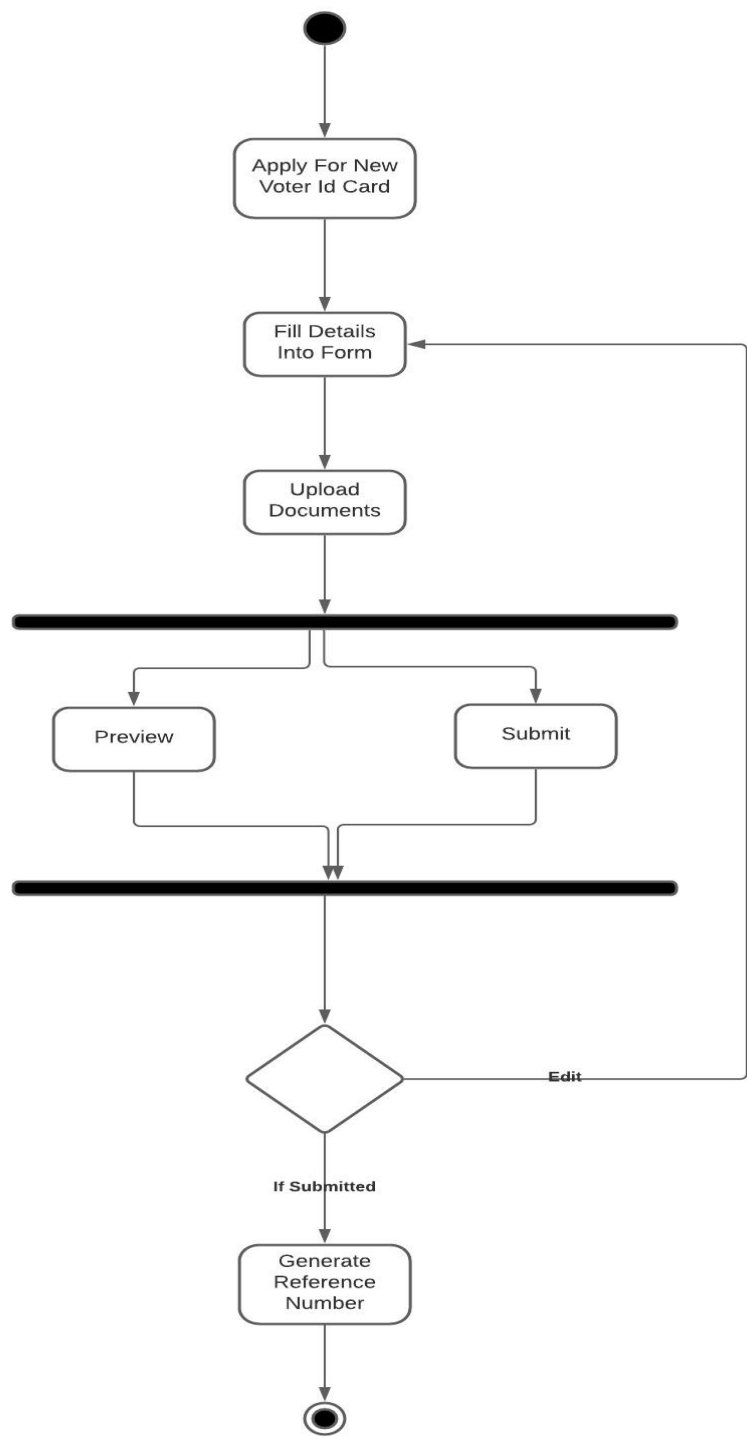


Login

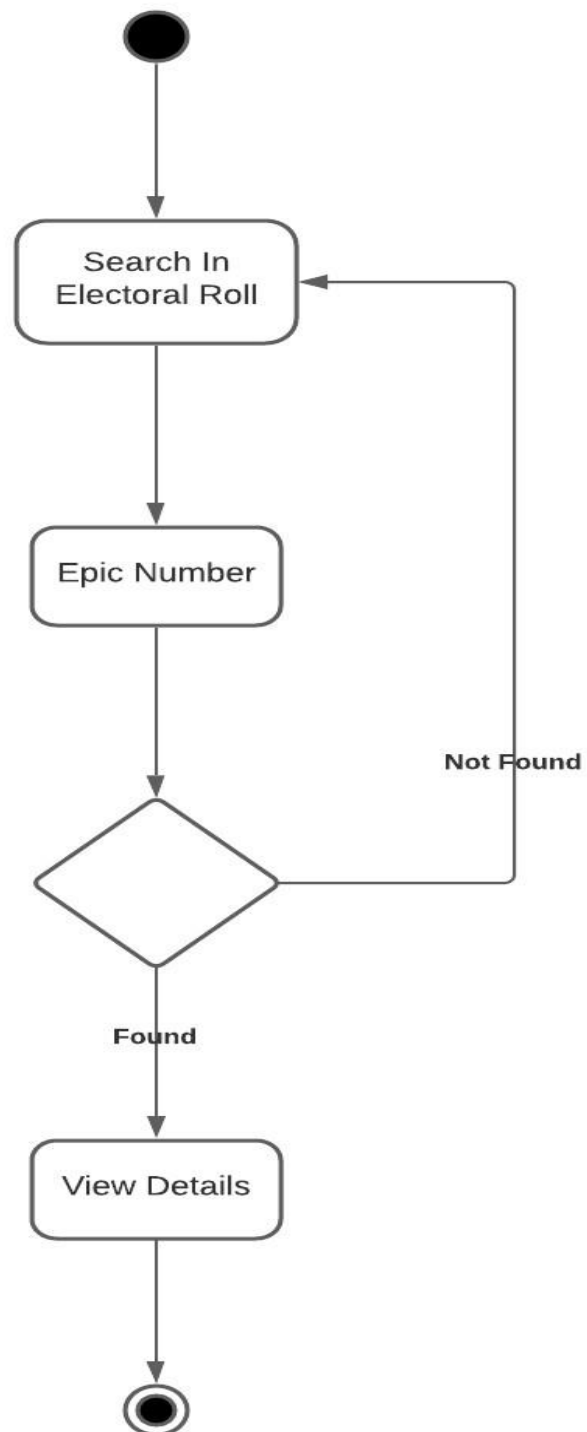


3.6 Activity Diagram

Apply for new voter id card



Login



4.Implementation Details

- Apply For New Voter Id Card :-

```
def application(request):
    today = date.today()
    if request.method=='POST':
        apply.name = request.POST['name']
        apply.surname = request.POST['surname']
        apply.gender = request.POST['gender']
        apply.state = request.POST['state']
        apply.city = request.POST['city']
        apply.address = request.POST['address']
        apply.pincode = request.POST['pincode']
        apply.dob = request.POST['dob']
        apply.relation = request.POST['relation']
        apply.relativeName = request.POST['relativeName']
        apply.relativeSurname = request.POST['relativeSurname']
        apply.email = request.POST['email']
        apply.mobile = request.POST['phone']
        apply.declarationPlace = request.POST['applyFrom']
        apply.declarationDate = request.POST['applyAt']
        apply.dob = datetime.datetime.strptime(apply.dob, '%Y-%m-%d')

        if (today.year - apply.dob.year - ((today.month, today.day) < (apply.dob.month, apply.dob.day))) < 18 :
            messages.info(request, 'Youe age is less than 18 you can not apply for voter id card')
            return redirect('application')

        else:
            #apply = ApplicationData(name=name , surname=surname , gender=gender , state=state , city=city , address=address , pincode=pincode , dob=dob , relation=relation , relativeName=relativeName , relativeSurname=relativeSurname , email=email , mobile=mobile , declarationDate=declarationDate , declarationPlace=declarationPlace)
            apply.save()
            return redirect('upload')

    else:
        if request.user.is_authenticated:
            return render(request, 'applicationform.html')
        messages.info(request, 'Please Login first then apply for new application')
        return redirect('/login')
```

- Upload Documents :-

```
def upload(request):
    if request.method == 'POST':
        apply.photo = request.FILES['photo']
        apply.aadharCard = request.FILES['aadharCard']
        apply.declaration = request.FILES['declaration']

        #apply = ApplicationData(photo=photo, aadharCard=aadharCard, declaration=declaration)

        apply.save()
        return redirect('preview')
    else:
        return render(request, 'upload_documents.html')
```

- Preview Application :-

```
def preview(request):
    date=str(application.dob.strftime("%d%m%Y"))
    application.application_id=(str(application.name))+date
    application.save()
    return render(request, 'preview.html', {'apply': application })
```

- Track Application Status :-

```
def status(request):
    if request.user.is_authenticated:
        if request.method == 'POST':
            id = request.POST['id']
            obj = ApplicationData.objects.filter(application_id=id)
            return render(request, 'showstatus.html', {'obj': obj})
        else:
            send = "status"
            return render(request, 'applicationid.html', {'obj': send})
    else:
        messages.info(request, 'Please Login first')
        return redirect('/login')
```

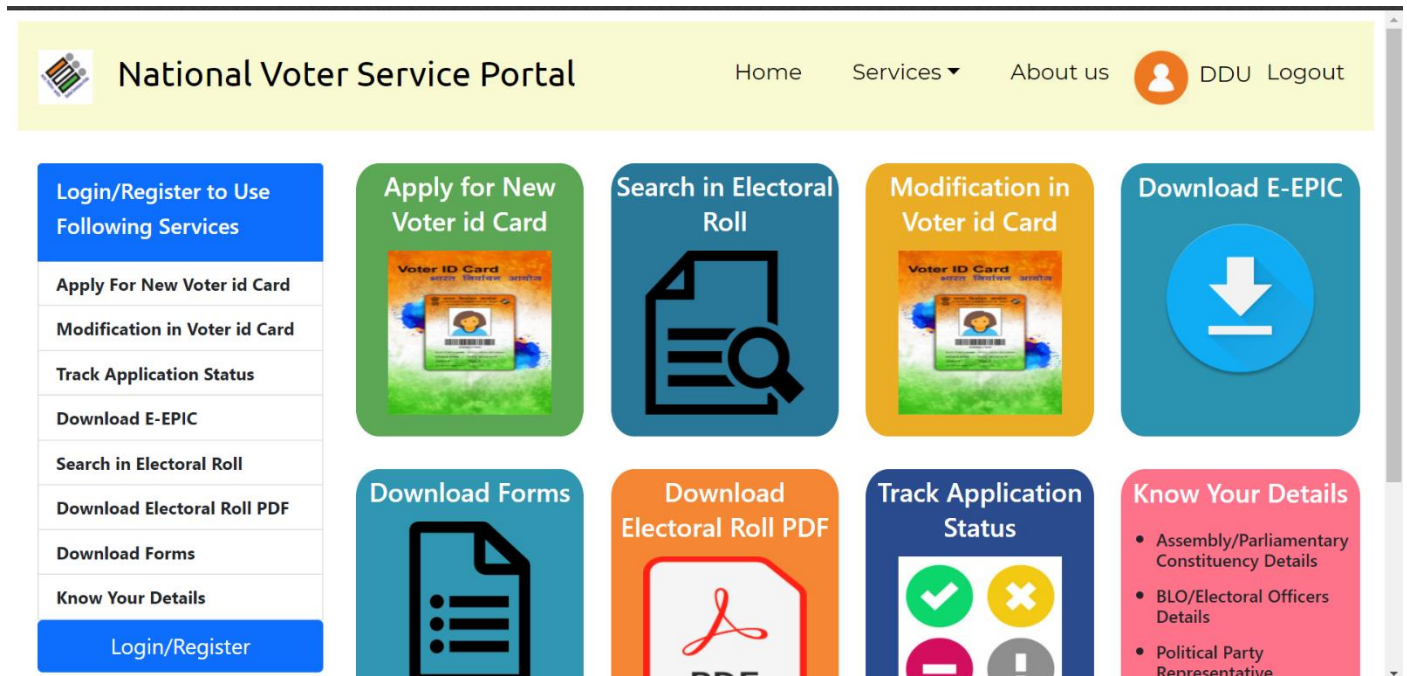
- Modification in Voter id card :-

```
if request.user.is_authenticated:
    if request.method == "POST" and (request.POST['submit'] == 'Submit'):
        id = request.POST['id']
        obj = ApplicationData.objects.filter(application_id=id)
        return render(request, 'modificationform.html', {'obj': obj })
    elif request.method == "POST" and (request.POST['submit'] == 'Modify'):
        id = request.POST['id']
        ApplicationData.objects.filter(application_id=id).update(name = request.POST['
name'])
        ApplicationData.objects.filter(application_id=id).update(surname = request.POS
T['surname'])
        ApplicationData.objects.filter(application_id=id).update(gender = request.POST
['gender'])
        ApplicationData.objects.filter(application_id=id).update(state = request.POST[
'state'])
        ApplicationData.objects.filter(application_id=id).update(city = request.POST['
city'])
        ApplicationData.objects.filter(application_id=id).update(address = request.POS
T['address'])
        ApplicationData.objects.filter(application_id=id).update(pincodes = request.POS
T['pincodes'])
        ApplicationData.objects.filter(application_id=id).update(relation = request.PO
ST['relation'])
        ApplicationData.objects.filter(application_id=id).update(relativeName = reques
t.POST['relativeName'])
        ApplicationData.objects.filter(application_id=id).update(relativeSurname = req
uest.POST['relativeSurname'])
        ApplicationData.objects.filter(application_id=id).update(email = request.POST[
'email'])
        ApplicationData.objects.filter(application_id=id).update(mobile = request.POST
['phone'])
        ApplicationData.objects.filter(application_id=id).update(declarationPlace = re
quest.POST['applyFrom'])
        ApplicationData.objects.filter(application_id=id).update(dob = datetime.dateti
me.strptime(request.POST['dob'], '%Y-%m-%d'))
        return redirect('/')
    else:
        send = "modification"
        return render(request, 'applicationid.html', {'obj': send})

else:
    messages.info(request, 'Please Login first then apply for Modification')
    return redirect('/login')
```

5. Screenshots


- Home :-



- Login :-

The screenshot shows the login page of the National Voter Service Portal. It features a large orange user icon at the top. Below it, the text "Welcome to Login Page !" is displayed. The login form includes a "Username" field with the text "DDU" and a "Password" field with masked characters ".....". A large orange "Login" button is positioned below the password field. At the bottom, there is a link: "Don't Have An Account ? [Sign up](#)".

- Register :-



Register Your Self Here !

Username

Email

Firstname

Password


Lastname


Confirm Password

Register

Already Have An Account ? [Sign in](#)

- New Application Form :-

**National Voter Service Portal**

Home Services ▾ About us  DDU Logout

1) Enter your personal details

Name *

Surname *

Gender of Applicant * ☒ Male ☐ Female ☐ Other


State *

City *

Address *

Pincode *

Date Of Birth *

Father/Mother/Husband Details *	Father ▾
Name of Relative of Applicant *	pareshbhai
Surname of Relative of Applicant *	shingala
Email id	shingalashubham14@gmail.com
Mobile No. *	9913070866
Declaration Place *	Surat
Date Of Apply *	28-03-2021 
<div>Next</div> <div>Reset</div>	



© Copyright 2021 National Voter Service Portal

• Upload Documents :-



National Voter Service Portal

Home

Services ▾

About us



DDU Logout

2) Upload Your Documents

1) Passport Size Photograph *

Choose File Shingala_Sh...12GM (2).jpg

2) Aadhar Card *

Choose File Adhar Card.pdf

3) Self Declaration *

Choose File AnswerShee...ge-1.pdf.pdf

Next

- Preview Application :-



Application For New Elector

Personal Details :-

- **Name of Applicant :** shubham shingala
- **Gender of Applicant :** male
- **Date Of Birth :** March 9, 2000, midnight
- **Email id :** shingalashubham14@gmail.com
- **Mobile No. :** 9913070866
- **Address :** college road , nadiad
- **State :** Gujarat
- **City :** Nadiad
- **Pincode :** 123456
- **Relation :** father



SHINGALA SHUBHAM

Application Id :
shubham09032000

- **Relation :** father
- **Name of Relative of Applicant :** pareshbhai shingala
- **Declaration Place :** Surat
- **Date Of Apply :** 2021-03-28

Uploaded Documents :-


- **Passport Size Photo** ✓
- **Aadhar Card** ✓
- **Self Declaration for Age** ✓


[Go to Home Page](#)



© Copyright 2021 National Voter Service Portal

- Track Application Status :-

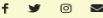
 National Voter Service Portal

Home Services About us  DDU Logout


Enter Your Application Id


Application Id :

Submit Reset




© Copyright 2021 National Voter Service Portal


 National Voter Service Portal


Home Services About us  DDU Logout


Application Status


Application Id : shubham09032000


Application Submitted


Documents Verified



EPIC Generated



SHINGALA SHUBHAM







© Copyright 2021 National Voter Service Portal

- Download Forms :-

**National Voter Service Portal**

HomeServices ▼About usDDU Logout

Title	Description	Link
Form - 6	GUIDELINES FOR FILLING UP THE APPLICATION FORM-6	Download
Form - 6A	GUIDELINES FOR FILLING UP THE APPLICATION FORM-6A	Download
Form - 7	GUIDELINES FOR FILLING UP THE APPLICATION FORM-7	Download
Form - 8	GUIDELINES FOR FILLING UP THE APPLICATION FORM-8	Download
Form - 8A	GUIDELINES FOR FILLING UP THE APPLICATION FORM-8A	Download



6. Conclusion

The functionalities are implemented in system after understanding all the System modules according to the requirements. Functionalities that are Successfully implemented in the system are :

- User Registration
- Login
- User authentication
- Logout
- Apply for new voter id card
- Upload documents
- Preview & submit Application
- Track Application Status
- Download Forms
- Modification In voter id card
- Generate E-Epic
- Profile details

7. Limitations and Future Enhancements

We have implemented the functionality “Apply for new Voter id card” Successfully with all its sub functionalities. The Project can be extended for Some other functionalities like (1) “Download & Search Electoral Roll Pdf” as per the selected State and city. (2) Verify Documents automatically at the time of upload.

8. Reference / Bibliography

Following links and websites were referred during the development of this Project:

docs.djangoproject.com

stackoverflow.com

github.com