

E-Gram Panchayath

Kumara V.



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PROJECT SUMMARY

E-Gram Panchayath is a web application that is specially designed to establish an environment, wherein village public can easily communicate with the village councils.



OBJECTIVE

- This project is aimed at achieving the solution for the problems that are faced by the public in villages, through this application public can easily contact PDO regarding any issues such as availing for services, complaints and certificates.
- PDO (panchayath development officer) can easily monitor/track on the village problems and managements.




TECNOLOGY USED

Programming language : Python 

Web framework : Django Web framework 

Database : SQLite 

Front end : HTML5, Boot Strap (CSS) 



TECHNOLOGY BRIEF

Python

Python is a high-level, general purpose programming language, Python is commonly used for developing websites and softwares and data analysis.

Django

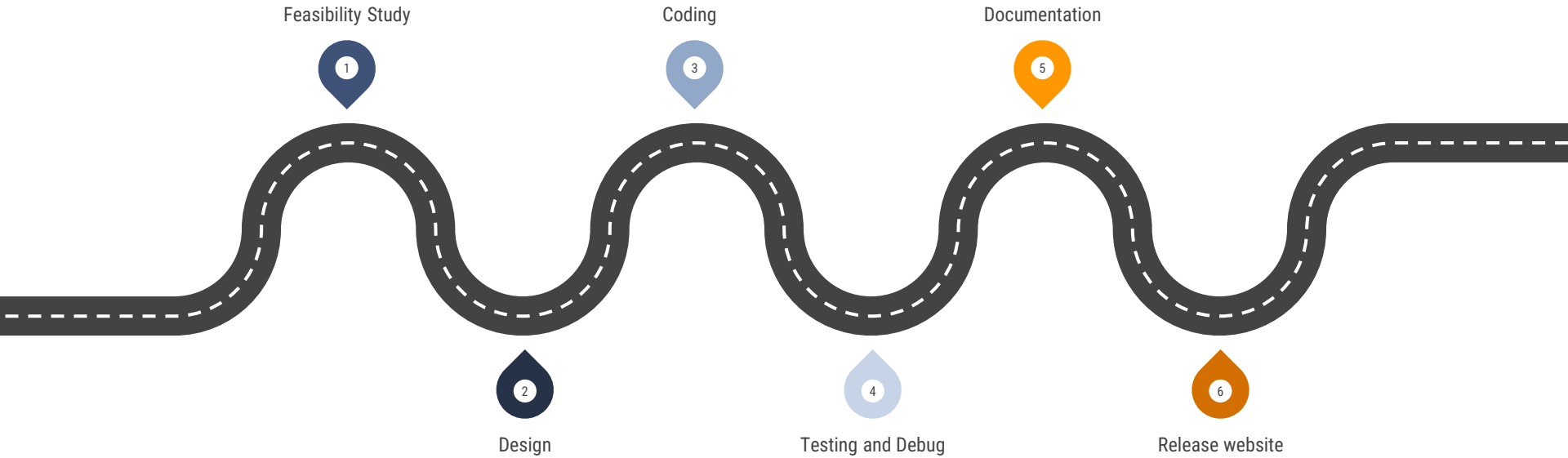
Django is a python based web framework that follows MVT architectural pattern, that encourages rapid development and clean, programmatic design.

SQLite

SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full featured, SQL database engine.

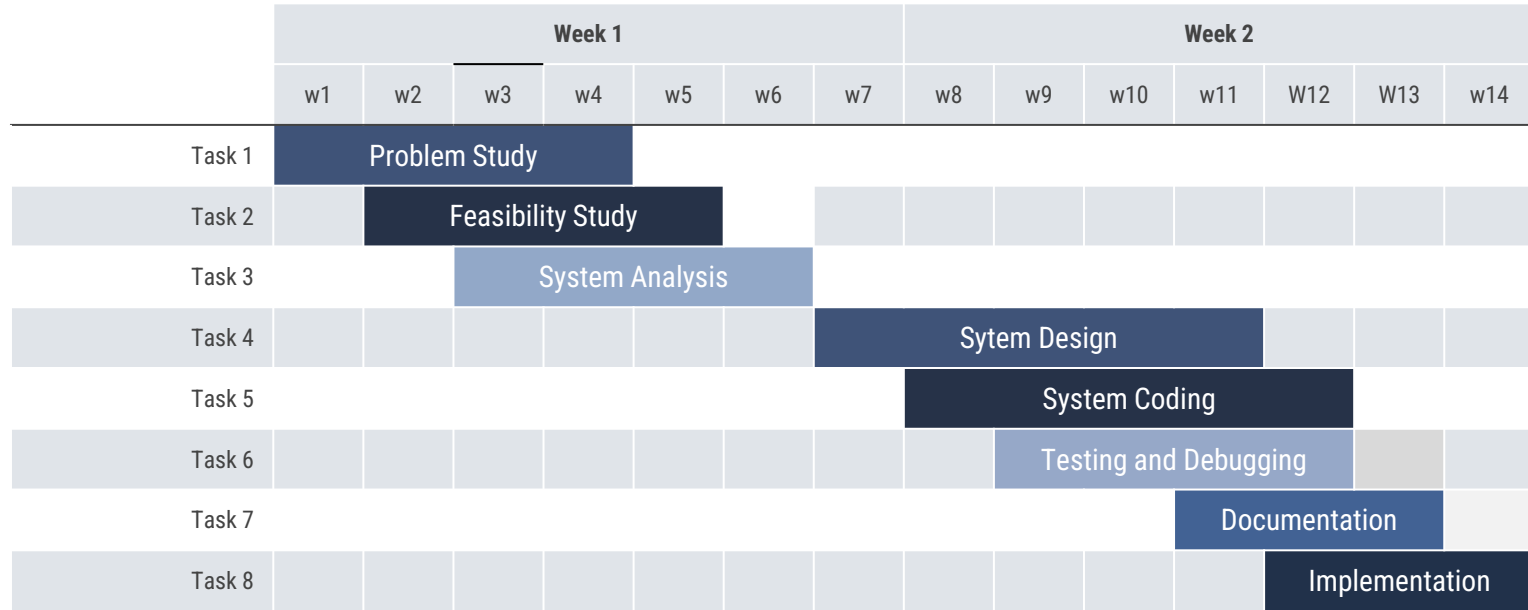


PLANNING - ROADMAP



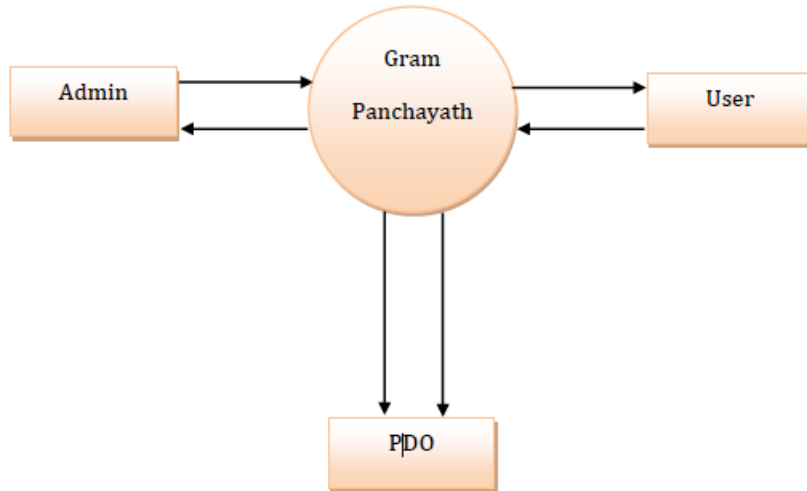


PLANNING - GANTT CHART

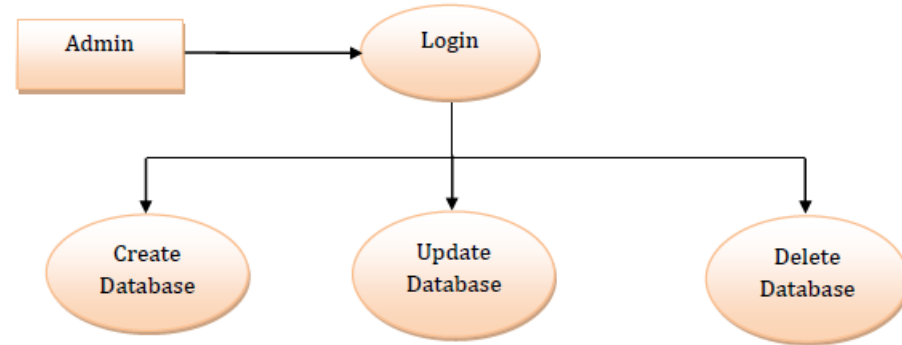




ANALYSIS – DFDs L0



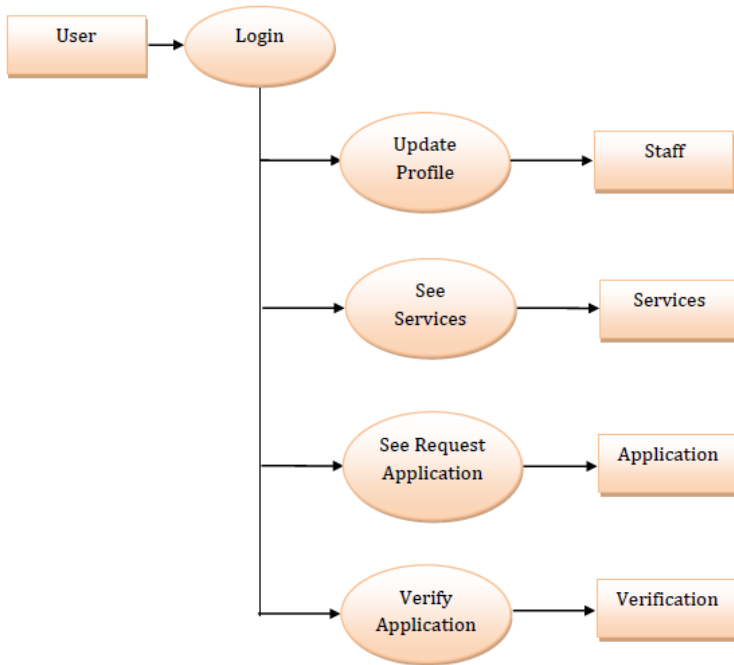
Context level diagram



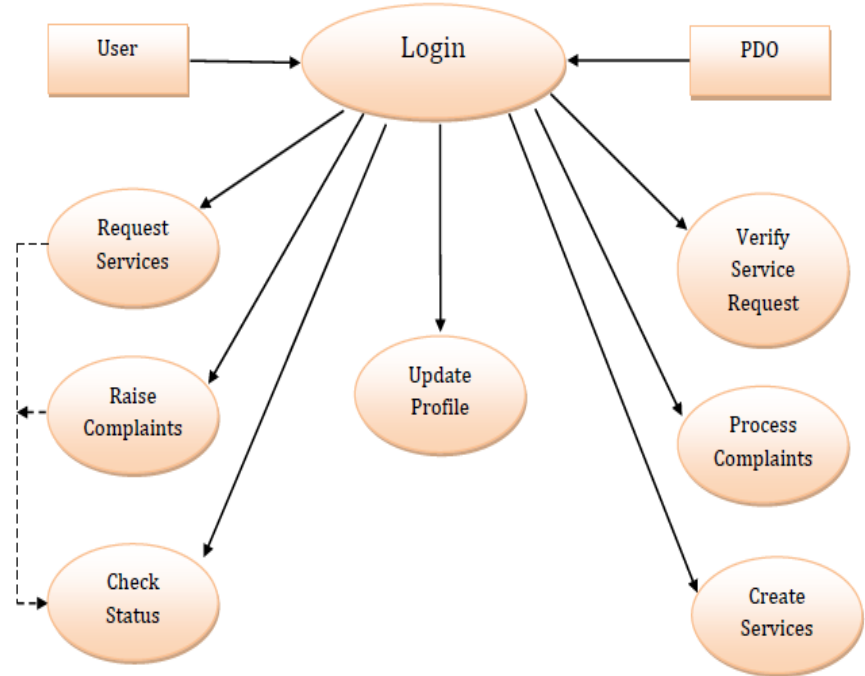
Admin level DFD



ANALYSIS – DFDs L1, L2



User level1 diagram

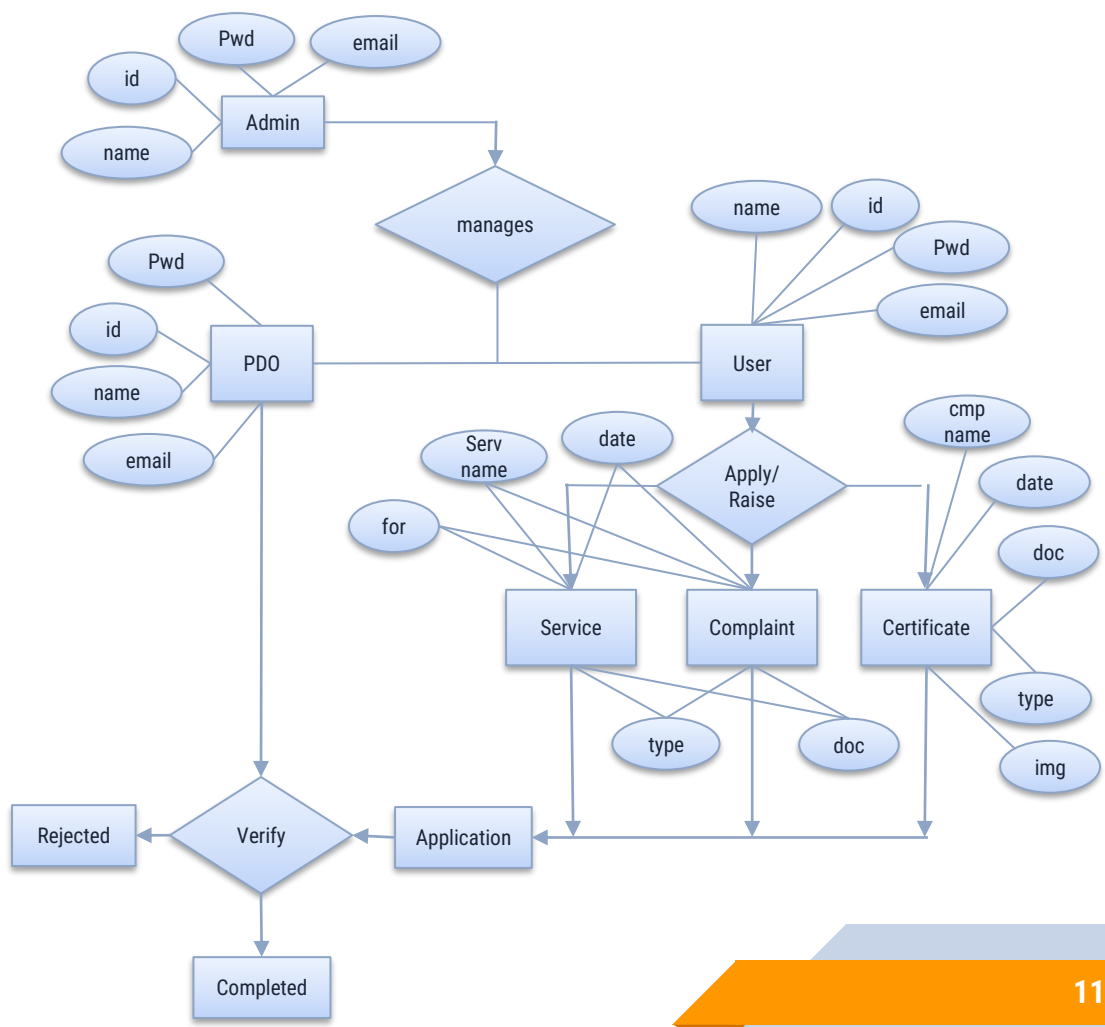


User and PDO level2 DFD

ER Model

An entity-relationship model describes interrelated things of interest in a specific domain of knowledge.

A basic ER model is composed of entity types (which classify the things of interest) and specify relationships that can exist between the entities.





CODE SAMPLE

Login Functionality

```
def login_user(request):
    if request.method == 'POST':
        uname = request.POST.get('uname')
        pwd = request.POST.get('pwd')
        user = authenticate(uname, pwd)
        if user is not None:
            login(request, user)
        else:
            messages.warning(request, "Uname
and Pwd is Invalid")
            return render(request, 'Login.html')
```

Password Change Functionality

```
If request.method == 'POST':
    form = UserPwdForm(request.user,
request.POST)
    if form.is_valid():
        form.save()
        messages.success(request, f"your
pwd changes successfully")
        return redirect('Login')
    else:
        form =
UserPwdForm(request.user)
```

Process Request Functionality

```
Class Processrequest(DetailView):
    model = Services
    template_name_suffix =
'_process_request_details'

    def get_context_data(self,
**kwargs):
        context =
super().get_context_data(**kwargs)
        return context
```

Certificate Table

Column Name	Column Type	Condition
Certificate Type	Char Field	Max length = 20
Certificate Name	Char Field	
Father Name	Char Field	Max length = 20
Mother Name	Char Field	Max length = 20
Address	Text Field	
Govt id	Char Field	
Govt Proof Document	File Field	
Birth Date	Date Field	
Death Date	Date Field	
Death Location	Char Field	Max length = 20
Caste	Char Field	Max length = 20
Caste Category	Char Field	
Income Value	Char Field	
Document Proof	File Field	
Remarks	Text Field	
Approval Status	Char Field	Max length = 20

Service Table

Column Name	Column Type	Condition
Service Type	Char Field	Max length = 20
Service Name	Char Field	
Service Applied Date	Date Field	
Service Description	Text Field	
Service Applied By	One to One Field	
Serv Request Image	Image Field	
Serv Remarks	Text Field	Max length = 100
Estimated Completion Date	Date Field	Max length = 20
Completion Status	Char Field	Max length = 20
Serv Completion Image	Image Field	
Serv Doc Name	Char Field	
Serv Doc File	File Field	


User Table

Column Name	Column Type	Condition
User Name	Char Field	Max length = 150
First Name	Char Field	Max length = 150
Email	Email Field	
Password	Char Field	Max length = 40
Groups	Char Field	
User Permission	Char Field	Null = True
Is Staff	Boolean Field	Null = True
Is Super User	Boolean Field	Null = True
Last Login	Date Field	Time Zone
Date Joined	Date Time Field	Default = time zone

Home Page

E-GRAM PANCHAYATH

HomeRequestsKumara Venkatesh-(Profile)LogoutAbout Us



MINISTRY OF EDUCATION
GOVERNMENT OF INDIA



75
आज़ादी का
अमृत महोत्सव

myGov
मेरी सरकार


Pariksha Pe
Charcha 2023

Participate & Get an Opportunity to Interact with
Hon'ble Prime Minister Narendra Modi


Participate Now




MoPR Complain/Applications Link



VIBRANT GRAM SABHA


AZADI KA AMRIT MAHOTSAV


COVID Dashboard


MERI PANCHAYAT. MERA ADHIKAAR
JAN SEVAAYIN HAMAARE DWAAR


GRAM URJA SWARAJ




Metacore-based Integrated e-service Delivery Framework


AuditOnline


Training Management Portal


Rashtriya Gram Swaraj Abhiyan

Important Dates

ANNOUNCEMENT : No Announcements

Latest News

ANNOUNCEMENT : Currently No News

New Post will arrive soon

Complaint Request Page

E-GRAM PANCHAYATH

[Home](#) [Raise Requests](#) [My Requests](#) [Vanitha N-\(Profile\)](#) [Logout](#) [About Us](#)

Service Request

Complaint Request

Complaint On

Document Required

Upload document

Choose File

No file chosen

Location

Select State

Complete Address

Enter Address

Request Description

Problem Description

Snapshot of the problem

Choose File

No file chosen

☐ Image Preview

Raise Complaint

localhost:8000/ServiceComplaint/#

PDO Requests Page

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HomeRequestsKumara Venkatesh-(Profile)LogoutAbout Us

Request Type	Applied By	Applied for	Applied Date	Approval Status	Complete Status	Remarks	Process
Service	Girish V	New Library Request	Dec. 11, 2021	rejected	rejected	Library Request already in progress by govt in anekal	NA
Service	Girish V	Electricity Supply Request	Dec. 11, 2021	approved	pending	adfvbn	Process Request
Complaint	Vanitha N	Damaged Roads	Dec. 11, 2021	approved	completed	Service Request Completed	NA
Complaint	Girish V	Water Issue	Dec. 15, 2021	approved	completed		NA
Complaint	Mahesh Kumar	Water Issue	May 7, 2022	rejected	rejected	Insufficient Data	NA

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Export to CSV

f

in

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Service Process Page

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AppliedApprovedProcessingCompleted

Electricity Supply Request

Applied by "Girish V", On Dec. 11, 2021, 5:15 p.m.

Description:Please provide electricity supply to our home

Address:

State : Karnataka

City : Ankola

Complete Location

: #25, Ankola, Karnataka

Complaint Image

Service Completion Image

PDO Action on this Request

Service Approval form:

APPROVED

Service Completion form:

Snapshot of Work CompletedChoose FileNo file chosen

Remarks

Submit

Certificate Process Page

E-GRAM PANCHAYATH

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AppliedApprovedProcessingCompleted

Birth Certificate

Applied by "Mahesh Kumar", On May 7, 2022, 4:49 p.m.

Candidate Name

Gagan t

Father Name

Thirumallesh

Mother Name

Lokeshwari

Date of Birth

Jan. 3, 2003

4567890876

Birth Place

Kempegowda hospital

Address

State : Arunachal Pradesh, City : Anjaw , Complete Address : drftghn cytfgyhb ctfygiuhjkm

Document Name

Hospital Birth Receipt

Document

/media/Files/IthamVerificationHelp_lkAvyx1.pdf

PDO Action on this Request

Certificate Approval form:

Please Accept/Reject the below request with the valid remarks

Remarks

Approve

Reject

Certificate Completion form:

NA

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Request Details Page

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HomeRaise RequestsMy RequestsGirish V-(Profile)LogoutAbout Us

AppliedApprovedProcessingCompleted

Caste Certificate

Applied by Girish V, On May 7, 2022, 8:43 p.m.

Candidate NameAnand N

Father NameNagarajuMother NameAmrutha

CasteGeneralCaste Category2A

Date of BirthOct. 22, 19968156787678

AddressState : Karnataka, City : Bangalore , Complete Address : 25, Mallathahalli Bangalore-560056

Document NameS.S.L.C Marksheet

Document/media/Files/INV-KA-B1-72795437-102618551047-MAY-2022.pdf

PDO Updates:

Approval Status : APPROVED

Completion Status : COMPLETED

Estimated Completion Date : NONE

Remarks : Completed

Certificate

Caste Certificate

View/Open Certificate

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Certificate Download Page



Indian Govt, Council

Caste Certificate

This certificate is presented to

Anand N

This is to certify that Mr./Miss/Mrs **Anand N** S/o,D/o Nagaraju and Amrutha, is resident of State : Karnataka, City : Bangalore , Complete Address : 25, Mallathahalli Bangalore-560056, Anand N born on Oct. 22, 1996,

As per the S.S.L.C Marksheet records/declaration, Anand N belongs to **Caste :General, Category :2A.**

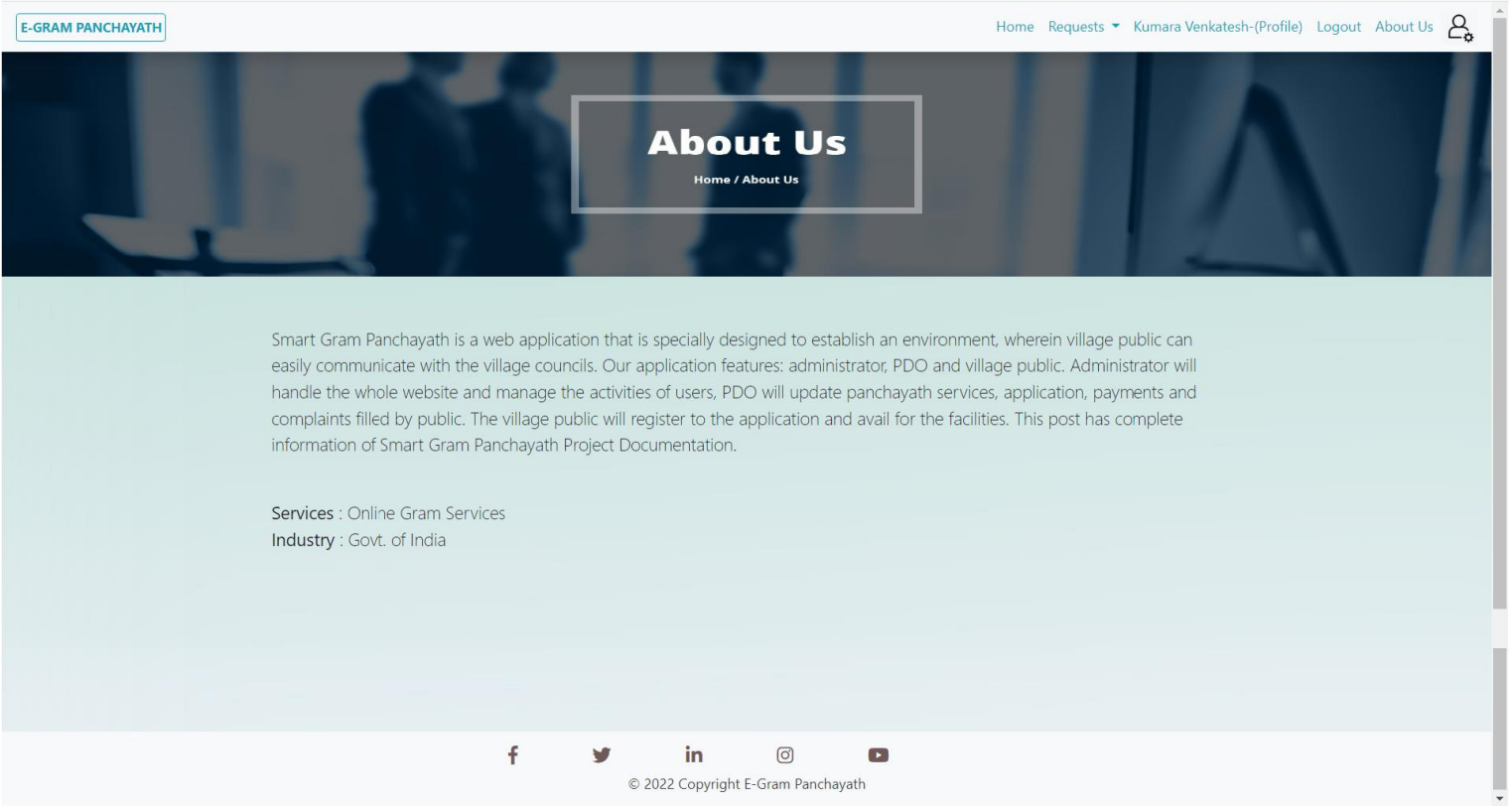
Date: Fri Dec 02 2022



Tahsildar/District Manager/Deputy
Commissioner Signature



About Us Page





FUTURE SCOPE

- This project has more scope in future and it can be integrated further.
- This project can be implemented for AI based voice assist to raise request/service through voice in user language (it's for illiterate, blinds).
- This project currently available as website, it can be implemented for Mobile applications, tabs, etc.
- Can be enhanced to common application for all village development programs.



CONCLUSION

E-Governance for panchayath provides online service to the people living in that panchayath, it helps for the people in the area to easily complete their work which involves the action of authority of the panchayath people, As everything is made online people can request their applications from anywhere at any time. After requesting the certificate/Service the process will be carried out normally, no need for the people to go to panchayath office every time for the completion of work, people can track there request online, It saves time and helps track of the village development activities.



THANKS!

Any questions?