1.	**django-admin startproject projectname** -- project create hoil
	project name (HDFC) ---- HDFC folder create hoil ani tyat 6 files create hotel.
	1. __init__.py -- package create karnya sathi use hoto
	2. Asgi.py --- deployement time use hoil
	3. Setting.py -- application install kelya warti tyat setting change karnya sathi use hoil
	4. Urls.py ---
	5. Wsgi.py – deployement time use
	6. Manage.py - server la start karnya sathi.
	cd projectname- je project name aaahe tya project name folder madhe madhe entry hoil
	Python manage.py runserver- main url create hoil
2.	**#create application-** **python manage.py startapp appname --** poject madhe jitke application create karaiche aahet te hya folder madhe yetil aani pratek application package/foder madhe warti jya 6 files ahet tya create hotel suppose >cd HDFC – HDFC folder madhe enrty zali . ➢ **Python manage.py startapp loan –** HDFC madhe laon navacha application create hoil. Ani tya madhe HDFC madhe jashya file create zalyahet tyach file hya madhe pan create hotel
	1. __init__.py --
	2. Admin.py ---
	3. apps.py --
	4. models.py ---
	5. test.py –
	6. views.py
	Manage.py
	Cd application – (cd loan) – loan folder madhe entry hoil

3	**Open HDFC folder /MAIN project – OPEN – setting.py file –** aapan jitke application create kele aahet te yaa madhe add kara
	
	 INSTALLED_APPS = [
	   'django.contrib.admin',
	   'django.contrib.auth',
	   'django.contrib.contenttypes',
	   'django.contrib.sessions',
	   'django.contrib.messages',
	   'django.contrib.staticfiles',
	   'loan' ---------- --- aapan new application create kelela
	
	]

4	**Open HDFC folder /MAIN project --- open --- urls.py file ---** je aapan application create kelele aahe tyacha path define kariacha
	 from django.contrib import admin admin import kela
	 from django.urls import path -- urla cha path import kela
	
	 urlpatterns = [
	   path('admin/', admin.site.urls), --already asel
	   path('welcome/', admin.site.urls), -- apan ata define kela
	]

	Jo path define kela aahe to aata loan folder madhe views madhe show karawa lagel
5	**Open HDFC folder – loan folder - open views.py file--** from django.http import HttpResponse ---- file import keli def show(r): return HttpResponse(" Welcome to first session of django ") ---- jo urls taklya warti show karaich aahe te takacich
	Aata views madhil ha show function call karicha aahe tya sathi parat HDFC – URLS file warti ja aani def show la import kara

Open HDFC folder /MAIN project --- open --- urls.py file – call def funct in loan views.
| ```python
from django.contrib import admin
from  django.urls import path

from loan import views    -- aata import kela

urlpatterns = [
    path('admin/', admin.site.urls),
    path('welcome/',views.show), -- views.show change kela
]
``` |

Setting.py	urls.py	Views.py
| ```python
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'LOAN' – he aapan add kela
]
``` | ```python
from django.contrib import admin
from django.urls import path

from LOAN import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('welcome/', views.show),
]
``` | ```python
from django.shortcuts import render
from django.http import HttpResponse

# Create your views here.


def show(r):
    return HttpResponse("<h1> Welcome to first session of django </h1>")
``` |

1.	**admin startproject servertime**
	>cd servertime - entry in servertime folder
2.	servertime>**python manage.py startapp getdatetime –** (getdatetime application create inside servertime project also same files in the project add new one views)
	1. **Servertime -** Setting.py -- INSTALLED_APPS = ['django.contrib.staticfiles', 'getdatetime' -- aata add kela]
	Server chi date and time pahije aaplyala tya sathi urls file warti
	Getdatetime – views.py from django.http import HttpResponse import datetime def showdatetime(r): cdatetime = datetime.datetime.now() return HttpResponse(" Current datetime of server is:"+str(cdatetime)+" ")
	1. **Servertime -** urls.py -- from django.contrib import admin from django.urls import path from getdatetime import views urlpatterns = [path('admin/', admin.site.urls), -- already hota path('time/', views.showdatetime),]
	ervertime>python manage.py runserver **http://127.0.0.1:8000/** **http://127.0.0.1:8000/time/**

Application level urls

<mark>**django-admin startproject projectname**</mark>   -- project create hoil
project name (HDFC) ---- HDFC folder create hoil ani tyat 6 files create hotel.
cd projectname- je project name aaahe tya project name folder madhe madhe entry hoil
Python manage.py runserver- main url create hoil
#create application- **python manage.py startapp appname --** poject madhe jitke application create karaiche aahet te hya folder madhe yetil aani pratek application package/foder madhe warti jya 6 files ahet tya create hotel suppose >cd HDFC – HDFC folder madhe enrty zali .   ➤ **Python manage.py startapp loan –** HDFC madhe laon navacha application create hoil. Ani tya madhe HDFC madhe jashya file create zalyahet tyach file hya madhe pan create hotel
Cd application – (cd loan) – loan folder madhe entry hoil

Open HDFC folder /MAIN project – OPEN – setting.py file – aapan jitke application create kele aahet te yaa madhe add kara
 	
INSTALLED_APPS = [
 	
   'django.contrib.staticfiles',
   'loan'   ---------- --- aapan new application create kelela
 	
]

Open HDFC folder /MAIN project --- open --- urls.py file --- je aapan application create kelele aahe tyacha path define kariacha
from django.contrib import admin   admin import kela
from django.urls import path   -- urla cha path import kela
 	
urlpatterns = [
   path('admin/', admin.site.urls),   --already asel
   path('welcome/', admin.site.urls), -- apan ata define kela
]

Jo path define kela aahe to aata loan folder madhe views madhe show karawa lagel

Open HDFC folder – loan folder - open views.py file--
from django.http import HttpResponse
# Create your views here. 	
 	
def prssonal_loan (r):
   return HttpResponse ("\<h1\> from personal loan\</h1\>")
 	
def home_loan (r):
   return HttpResponse ("\<h1\> from home loan\</h1\>")
 	
def car_loan (r):
   return HttpResponse ("\<h1\> from car loan\</h1\>")
 	
def agri_loan (r):
   return HttpResponse ("\<h1\> from agri loan\</h1\>")

Aata views madhil ha show function call karicha aahe tya sathi parat HDFC – URLS file warti ja aani def show la import kara

Open HDFC folder /MAIN project --- open --- urls.py file – call def funct in loan views.

```python
from django.contrib import admin
from django.urls import path

from loan import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('personal/', views.personal_loan),
    path('home/', views.home_loan),
    path('car/', views.car_loan),
    path('agri/', views.agri_loan),
]
```

Python manage.py runserver
http://127.0.0.1:8000   -- page not found

127.0.0.1:8000/personal/ --- from personal loan   output
127.0.0.1:8000/car/ ------- from car loan   output
127.0.0.1:8000/agri/ ------ from car loan   output

Same urls at application level

django-admin startproject projectname   -- project create hoil
project name (HDFC) ---- HDFC folder create hoil ani tyat 6 files create hotel.
cd projectname- je project name aaahe tya project name folder madhe madhe entry hoil
Python manage.py runserver- main url create hoil
#create application- **python manage.py startapp appname --** poject madhe jitke application create karaiche aahet te hya folder madhe yetil aani pratek application package/foder madhe warti jya 6 files ahet tya create hotel suppose >cd HDFC – HDFC folder madhe enrty zali .   ➢ **Python manage.py startapp loan –** HDFC madhe laon navacha application create hoil. Ani tya madhe HDFC madhe jashya file create zalyahet tyach file hya madhe pan create hotel
Cd application – (cd loan) – loan folder madhe entry hoil

Open HDFC folder /MAIN project – OPEN – setting.py file – aapan jitke application create kele aahet te yaa madhe add kara
 	
INSTALLED_APPS = [
 	
   'django.contrib.staticfiles',
   'loan'   ---------- --- aapan new application create kelela
]

Jo path define kela aahe to aata loan folder madhe views madhe show karawa lagel

Open HDFC folder – loan folder - open views.py file--
from django.http import HttpResponse
# Create your views here. 	
 	
def prssonal_loan (r):
   return HttpResponse (" from personal loan ")
 	
def home_loan (r):
   return HttpResponse (" from home loan ")
 	
def car_loan (r):
   return HttpResponse (" from car loan ")
 	
def agri_loan (r):
   return HttpResponse (" from agri loan ")

Aata views madhil ha show function call karicha aahe tya sathi parat HDFC – URLS file warti ja aani def show la import kara

Open HDFC folder /MAIN project --- open --- urls.py file – call def funct in loan views.
from django.contrib import admin from django.urls import path from loan import views urlpatterns = [path('admin/', admin.site.urls),]
Urls.py file copy kaara aani loan folder warti click karun paste kara same as it is (diect folder warti nahi ki madhe)
Loan file madhe urls.py file create hoil tya madhe he add kara]

```
from django.urls import path
from loann import views



urlpatterns = [
    path('personal/',views.personal_loan),
    path('home/',views.home_loan),
    path('car/',views.car_loan),
    path('agri/',views.agri_loan),
]
```

Parat Open HDFC folder /MAIN project --- open --- urls.py file –

```
from django.contrib import admin
from django.urls import path,include


urlpatterns = [
  path ('admin/', admin.site.urls),
  path ('loan/', include('loan.urls')),
]
```

Python manage.py runserver
http://127.0.0.1:8000   -- page not found

127.0.0.1:8000/loan/personal/ --- from personal loan   output
127.0.0.1:8000/laon/car/ ------- from car loan   output
127.0.0.1:8000/loan/agri/ ------ from car loan   output

Ibm application level url

1. **Djano-admin startproject IBM**
2. cd IBM
3. \IBM>python manage.py startapp HR -- 1st hr application create hoil
4. \IBM>python manage.py startapp marketing -- 2nd marketing application create hoil
5. \IBM>python manage.py startapp sales -- 3rd sales application create hoil
6. \IBM>python manage.py startapp accounts --4th   account application create hoil

---

IBM- setting.py

```python
INSTALLED_APPS = [

    'django.contrib.staticfiles',
    'accounts',
    'HR',
    'marketing',
    'sales',
]
```

IBM – accounts – views.py
```python
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def salary(request):
    return HttpResponse("<h1> welcome to salary page</h1")
def bonus(request):
    return HttpResponse("<h1> welcome to bonus page</h1>")
```

yacha url create karaiach aata

application url karaich tr ha project level url copy karun ghetto

---

Ibm folder warti jaa urls.py file copy kara aani ti sarv other 4 files warti paste kara
Aata 1.HR ,ACCOUNT, SALES, MARKETING hya 4 hi folder madhe url file create zalya aahet

---

IBM – accounts- urls.py

```python
from django.urls import path
from accounts import views

urlpatterns = [
    path('salary/', views.salary),
    path('bonus/', views.bonus),
]
```

IBM – URLS.PY
```python
from django.contrib import admin
from django.urls import path,include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('accounts/', include('accounts.urls')),
]
```

```
2nd application HR – views.py
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def hire(request):
    return HttpResponse("<h1> welcome to hiring page</h1>")
def emp(request):
    return HttpResponse("<h1> welcome to employee page</h1>")
```

```
HR– URLS.PY
from django.urls import path
from HR import views

urlpatterns = [
    path('emp/', views.emp),
    path('hire/', views.hire),
]
```

```
IBM – urls.py

from django.contrib import admin
from django.urls import path,include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('accouts/', include('accouts.urls')),
    path('HR/', include('HR.urls')),

]
```

http://127.0.0.1:8000   -- page not found

127.0.0.1:8000/accouts/salaryl/ --- welcome to salary page   output
127.0.0.1:8000/accouts/bonusl/   welcome to bonus page   output
127.0.0.1:8000/accouts/emp/ ------ welcome to emp page   output
127.0.0.1:8000/accouts/hire/ ------ welcome to hire page   output

Same process as it remaining two for sales and marketing application

1. Djano-admin startproject TCS
2. cd TCS
3. \TCS>python manage.py startapp dev -- 1st hr application create hoil
4. \TCS>python manage.py startapp home -- 2nd home application create hoil
5. Tcs cha url page dev ani home application warti capy paste karaich

---

Final step
TCS- urls

```
from django.contrib import admin
from django.urls import path,include
from home import views
urlpatterns = [
   path('admin/', admin.site.urls),
   path ('developement/', include('dev.urls')),
   path('', views.index),
]
```

3rd step
TCS- setting.py

```
INSTALLED_APPS = [
   'django.contrib.admin',
   'django.contrib.auth',
   'django.contrib.contenttypes',
   'django.contrib.sessions',
   'django.contrib.messages',
   'django.contrib.staticfiles',
   'dev',
   'home'
]
```

4th step

TCS- dev- urls
```
from django.urls import path,include
from dev import views

urlpatterns = [
   path('/', views.index),   --yacha use nahi
   path('show/', views.show ),
]
```
output ; page not found yeal tyasathi direct index show krnay sathi home application create karawa lagel

1st step
TCS -dev– views

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.

def index(r):
   return HttpResponse("<h1> welcome to home page </h1>")

def show(r):
   return HttpResponse("<h1> welcome to show </h1>")
```

2nd step
TCS- home- urls

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def index(r):
   return HttpResponse("<h1> welcome to index page </h1>")
```

Python manage.py runserver
127.0.0.1:8000 -- welcome to index page
127.0.0.1:8000/developement/show/ -- welcome to show

1. Djano-admin startproject Templateproject
2. cd Templateproject
3. \Templateproject>python manage.py startapp **tempapp** -- 1st tempapp application create hoil
4. **Create folder** at project level – template (select Templateproject folder- new directory)
5. **Connect template folder in (Templateproject – setting.py)**

   1. BASE_DIR = Path(__file__).resolve().parent.parent
   TEMPLATE_DIR = Path.joinpath(BASE_DIR,'template')

6. select **template folder** – create new directory/folder – **tempapp** and inside tempapp create html file – index.htmal
   </head>
   <body>
   <h1> welcome to index page from template </h1>
   <body>
7. select template folder – create new directory/folder – tempapp and inside tempapp create html file – show.htmal
   </head>
   <body>
   <h1> welcome to show page from template </h1>
   <body>

8. *Hya 2hi html file la access karaich tyasathi—**tempapp.views** warti jaa*
   from django.shortcuts import render

   # Create your views here.
   def index(r):
       return render(r,'tempapp/index.html')

   def show(r):
       return render(r,'tempapp/show.html')

9. **Templateproject – urls.py**
   from django.contrib import admin
   from django.urls import path
   from tempapp import views

   urlpatterns = [
       path('admin/', admin.site.urls),
       path('', views.index),
       path('show/', views.show),
   ]

| **1st step**
(Templateproject – setting.py)

from pathlib import Path

1.   BASE_DIR = Path(__file__).resolve().parent.parent
       TEMPLATE_DIR = Path.joinpath(BASE_DIR,'template') – connect

INSTALLED_APPS = [
  'django.contrib.admin',
  'django.contrib.auth',
  'django.contrib.contenttypes',
  'django.contrib.sessions',
  'django.contrib.messages',
  'django.contrib.staticfiles',
  'tempapp' -- ----- add application

TEMPLATES = [
  {
    'BACKEND': 'django.template.backends.django.DjangoTemplates',
    'DIRS': [TEMPLATE_DIR,], ----register | **Tempapp- views.py**
from django.shortcuts import render
# Create your views here.
def index(r):
  return render(r,'tempapp/index.html')

def show(r):
  return render(r,'tempapp/show.html') |
| | **Templateproject – urls.py)**
from django.contrib import admin
from django.urls import path
from tempapp import views

urlpatterns = [
  path('admin/', admin.site.urls),
  path('', views.index),
  path('show/', views.show),
] |

Python manage.py runserver- 127.0.0.1:8000 -- welcome to index page from template

127.0.0.1:8000/show -- welcome to show page

1. Djano-admin startproject SBI
2. cd SBI
3. \SBI>python manage.py startapp **loan** -- 1st loan application create hoil- (register in setting)
4. **Create folder** at project level – template (select Templateproject folder- new directory)
5. **Connect template folder in (Templateproject – setting.py)**

```
1. BASE_DIR = Path(__file__).resolve().parent.parent
        TEMPLATE_DIR = Path.joinpath(BASE_DIR,'template')

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'loan',
]
TEMPLATES = [
   {
     'BACKEND': 'django.template.backends.django.DjangoTemplates',
     'DIRS': [TEMPLTE_DIR],
```

6. select template folder – create new directory/folder – loan and inside loan app create html file – personal.html
```
</head>
<body>
<h1> welcome to personal loan  </h1>
<body>
```
7. 2nd html file – homeloan.html
```
 </head>
<body>
<h1> welcome to home  loan </h1> same 3rd
<body>
```

8. *Hya 2hi html file la access karaich tyasathi—**sbi folder – loan -.views** warti jaa*
   from django.shortcuts import render.

```
# Create your views here.
def personal_loan(r):
    return render(r,'loan/personal.html')

def home_loan(r):
    return render(r,'loan/home.html')

def business_loan(r):
    return render(r,'loan/business.html')
```

select sbi project – urls.py copy and paste in loan
```
from django.contrib import admin
from django.urls import path
from loan import views

urlpatterns = [
    path('persoanl/', views.personal_loan),
    path('homeloan', views.home_loan),
    path('businessloan/', views.business_loan),
]
```

Sbi - Urls.py

```
from django.contrib import admin
from django.urls import path,include
urlpatterns = [
    path('admin/', admin.site,urls),
    path('loan/', include('loan.urls')),
]
```

Python manage.py runserver

127.0.0.1:8000/loan/home/ - welcome to home loan

127.0.0.1:8000/loan/business/   -- welcome to business laon

Now by using static

Sbi –loan - View.py	Sbi –template -loan – personal.html

`from django.shortcuts import render`
 	
# Create your views here. 	
`def personal_loan(r):`
    `my_dict = {'name': 'rushi', 'id': 100}` --new
    `return render(r,'loan/personal.html',`**`context=my_dict`**`)` –for pass dict new
 	
`def home_loan(r):`
    `return render(r,'loan/home.html')`
 	
`def business_loan(r):`
    `return render(r,'loan/business.html')`
	`<!DOCTYPE html>`
	`<html lang="en">`
	`<head>`
	    `<meta charset="UTF-8">`
	    `<title>Title</title>`
	<table><tr><td>**`<style>`**
	`h1{`
	`color:red;`
	`background:yellow;`
	`}`
	`</style>`</td><td>**Yala template tag mhntat**</td></tr></table>
	`<h2>` Name of employee: {{name}}`</h2>`
	`<h2>` Name of id: {{id}}`</h2>`
	`</head>`
	`<body>`
	`<h1>` welcome to personal loan `</h1>`
	{{name}} **---- new pass dict here**
	{{id}} **--------new**
	`</body>`
	`</html>`

127.0.0.1:8000/loan/personal/ -
welcome to personal loan
rushi 100
Name of employee: rushi
Name of id: 100

2. >cd python

3. >python manage.py startapp module(module app setting madhe register kara)

4. Create template at projectlevel

5. Inside template create one directory (directory name – moduleq)

6. Python- template-moduleq- create one html page-(home.html)

7. Setting madhe   . path join karun ghya

```
BASE_DIR = Path(__file__).resolve().parent.parent
TEMPLATE_DIR=Path.joinpath(BASE_DIR,'template') – he add kela
'BACKEND': 'django.template.backends.django.DjangoTemplates',
'DIRS': [TEMPLATE_DIR],  - he add kela
```

8.Create STATIC folder at project level – (static)

In setting jon path same as like template –
```
BASE_DIR = Path(__file__).resolve().parent.parent
TEMPLATE_DIR = Path.joinpath(BASE_DIR,'template')
STATIC_DIR = Path.joinpath(BASE_DIR,'static') – he addd kela

STATIC_URL = 'static/'
STATICFILES_DIRS = [STATIC_DIR] --- he add kela
```

9.   CREATE INSIDE STATIC one directory – images & 2nd css

10.   Images folder madhe image copy paste kara

11.   Html.home page open kara
```
<!DOCTYPE html>
{% load static  %} – he add kela
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
<h1> welcome to home page </h1>  - he add kela
<img src="{% static 'images/pushpa.jpg' %}"  alt="">    --- he add kela
</body>
</html>
```

12.   Open – python - mpduleq- views.py
```
from django.shortcuts import render

# Create your views here.
def show(r):
    return render(r,'moduleq/home.html')
```

Open – python - - urls.py
```
from django.contrib import admin
from django.urls import path
from moduleq import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path ('show/', views.show),
]
```

Python manage.py runserver-
```
127.0.0.1:8000
127.0.0.1:8000/show/   -- welcome to home page


For convert into css
  <title>Title</title>
<link rel="stylesheet" href="{%static 'css/test.cssz%>
```

25/02/2022

MODEL

1. Create project – **advtemplate**
2. Enter in project – cd advtemplate
3. Create project level app – **advapp** – register in setting
4. Create one directory /folder at prject – **templates** –
5. Create one more directory inside **templates** - **advapp**
6. Create four html files inside **templates** - **advapp**—
   1. Base.html   2.index.html   3.contactus.html   4.about.html
7. Open setting in advtemplate and register template- **setting.py**

Setting.py	
1ST INSTALLED_APPS = [**'django.contrib.staticfiles'**, **'advapp'**	2ND BASE_DIR = Path(__file__).resolve().parent.parent **TEMPLATE_DIR = Path.joinpath(BASE_DIR,'templates') - (ADD)** TEMPLATES = ['DIRS': [TEMPLATE_DIR], --(ADD)

3RD DATABASES = {
   'default': {
     'ENGINE': **'django.db.backends.mysql'**,
     'NAME': **'python26template'**,
     'USER': **'root'**,
     'PASSWORD': **'root'**,	

8. Create database –inside mysq line command -- python26template
   -mysql> create database python26template;
9. open all html files created and write code inside that files

---

1**. base.html** file open and copy code from - https://getbootstrap.com/-- components - navbar
And paste inside body. – 2 body chya madhe paste kaara

Also in html file add css inbetween title and head –https://getbootstrap.com/-- home – download-cd viajs delivr – copy
(Title chy khali ani head chya warti)
```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script>

</head>
<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
 <div class="container-fluid">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarSupportedContent">
   <ul class="navbar-nav me-auto mb-2 mb-lg-0">
```

```html
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Link</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
            Dropdown
          </a>
          <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
            <li><a class="dropdown-item" href="#">Action</a></li>
            <li><a class="dropdown-item" href="#">Another action</a></li>
            <li><hr class="dropdown-divider"></li>
            <li><a class="dropdown-item" href="#">Something else here</a></li>
          </ul>
        </li>
        <li class="nav-item">
          <a class="nav-link disabled">Disabled</a>
        </li>
      </ul>
      <form class="d-flex">
        <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success" type="submit">Search</button>
      </form>
    </div>
  </div>
</nav>
{% block base_block% } -----must imp add
{% endblock %}---------------must imp add
</body>
</html>
```

Open index html	About.html	Contact.html

`<!DOCTYPE html>`
`{% extends 'advapp/base.html'%}`
`<html lang="en">`
`<head>`
`  <meta charset="UTF-8">`
`  <title>Title</title>`
`</head>`
`<body>`
`{%block base_block %}`
`<h1> Welcome to index page</h1>`
 	
`{%endblock%}`
 	
`</body>`
`</html>`
	`<!DOCTYPE html>`
	`{% extends 'advapp/base.html'%}`
	`<html lang="en">`
	`<head>`
	`   <meta charset="UTF-8">`
	`   <title>Title</title>`
	`</head>`
	`<body>`
	`{%block base_block %}`
	`<h1> Welcome to about page</h1>`
	
	`{%endblock%}`
	
	`</body>`
	`</html>`
		`<!DOCTYPE html>`
		`{% extends 'advapp/base.html'%}`
		`<html lang="en">`
		`<head>`
		`   <meta charset="UTF-8">`
		`   <title>Title</title>`
		`</head>`
		`<body>`
		`{%block base_block %}`
		`<h1> Welcome to contact page</h1>`
		
		`{%endblock%}`
		
		`</body>`
		`</html>`

Yaa madhe space khup imp ahe eka jari base cha space miss zala tr code madhe error yeil		

Advtemplate—urls.py	Advtemplate-advapp-views.py	

```from django.contrib import admin```
```from django.urls import path```
```from advapp import views```
 	
```urlpatterns = [```
```   path('admin/', admin.site.urls),```
```   path('', views.show),```
	```from django.shortcuts import render```
	
	```# Create your views here.```
	```def show(r):```
	``` return render(r, 'advapp/index.html')```
	```#base code sarwana dila aahe```
		```{% extends 'feed/base.html'%}```
		```{% block title %} Details {% endblock %}```
		
		```{% block content %}```
		
		```some views```
		```{% endblock %}```

]

Code madhe pages warti some changes

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script>

</head>
<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">HDFC</a>      # changes
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="home">Home</a>      # changes
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">about</a>         # changes
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
            Exam          # changes
          </a>
          <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
            <li><a class="dropdown-item" href="python">python</a></li>    # changes
            <li><a class="dropdown-item" href="java">java</a></li>         # changes

            <li><a class="dropdown-item" href="#">Something else here</a></li>
          </ul>
        </li>
        <li class="nav-item">
          <a class="nav-link disabled">Disabled</a>
        </li>
      </ul>
      <form class="d-flex">
        <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success" type="submit">Search</button>
      </form>
    </div>
  </div>
</nav>
{% block base_block % }
{%endblock%}
</body>
</html>
```

Sarva html files display honar aata – views.py	Sarva html files display honar aata – urls.py

``python
from django.shortcuts import render
 	
# Create your views here. 	
def index(r):
    return render(r, 'advapp/index.html')
 	
def about(r):
    return render(r, 'advapp/about.html')
 	
def contact(r):
    return render(r,
'advapp/contact.html')
``
	``python
	from django.urls import path
	from django.contrib import admin
	from django.urls import path
	from advapp import views
	
	urlpatterns = [
	    path('admin/', admin.site.urls),
	    path('', views.index),
	    path('contact/', views.contact),
	    path('about/', views.about),
	]
	``

Je urls dele aahet te tayar krnyasathi parat changes kara base filemadhe

```html
<a class="nav-link active" aria-current="page" href="/contact">contact</a>

<a class="nav-link" href="/about">about</a>
```

Aata aaplyala python ani java chya page warti click kela tar te page open zale pahije tya sathi aapna 2 html files create karut pahily jithe html files hoty tithech

``html
<!DOCTYPE html>
{% extends 'advapp/base.html'%}
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
{%block base_block %}
  Welcome to java page
 	
{%endblock%}
 	
</body>
</html>
``
	``html
	<!DOCTYPE html>
	{% extends 'advapp/base.html'%}
	<html lang="en">
	<head>
	  <meta charset="UTF-8">
	  <title>Title</title>
	</head>
	<body>
	{%block base_block %}
	  Welcome to python page
	
	{%endblock%}
	
	</body>
	</html>
	``

Yala link kara parat aata

View.py – pahila code tasach rahil tya khali he add hoil	urls.py – pahila code tasach rahil tya khali he add hoil

``python
def python(r):
  return render(r,'advapp/python.html')
 	
def java(r):
  return render(r,'advapp/java.html')
``
 	
urls.py – pahila code tasach rahil tya khali he add hoil
	``python
	path('python/', views.python),
	path('java/', views.java),
	``

Base.html changes in python

``html
  python
  java
``

Aaplyala image add kariahci tya sathi project level la – static folder create kara tya madhe images folder/directory create kara .

Images.- copy paste image

Register in setting- setting.py
```
TEMPLATE_DIR = Path.joinpath(BASE_DIR,'templates')
STATIC_DIR =Path.joinpath(BASE_DIR,'static')


STATIC_URL = 'static/'
STATICFILES_DIR=[STATIC_DIR]
```

STATIC FOLDER LA BASE.HTML file madhe load kara -----

```
STATIC_URL = 'static/'
STATICFILES_DIR=[STATIC_DIR]
```

```html
</head>
<body>
<img src="{%static "img/pushpa.jpg" %}" alt= "pushpa" align="center">
```

Jithe image dkahwaiche aahe tithe cut krun paste kara tya side la disel

User authentification   02/03/2022

1. **Login   2.Logout   3. Sighnout   4. Superuser 5.adminn**

(aapan python page warti click kelya warti tyala login logout kass karaich te shiknar aahot yaa madhe same above project)

View.py - pahila code as it is rahil fakt hya gohti add kara aata tya madhe

```python
from django.shortcuts import render
from django.contrib.auth.decorators import login_required    ---- add kela

# Create your views here.
def index(r):
    return render(r, 'advapp/index.html')

def about(r):
    return render(r, 'advapp/about.html')

def contact(r):
    return render(r, 'advapp/contact.html')

@login_required()    ------------------------ add kela
def python(r):
    return render(r,'advapp/python.html')

def java(r):
    return render(r,'advapp/java.html')
```

python page warti click kela tr aata error yeil te solve krnya sathi urls madhe jaun path add kara

```
urls.py
from django.contrib import admin
from django.urls import path,include ------ # include add kela fkt
from advapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', views.index),
    path('contact/', views.contact),
    path('about/', views.about),
    path('python/', views.python),
    path('java/', views.java),
    path('accounts/',include('django.contrib.auth.urls')),    -- add kela  # from settng copy paste
]
```
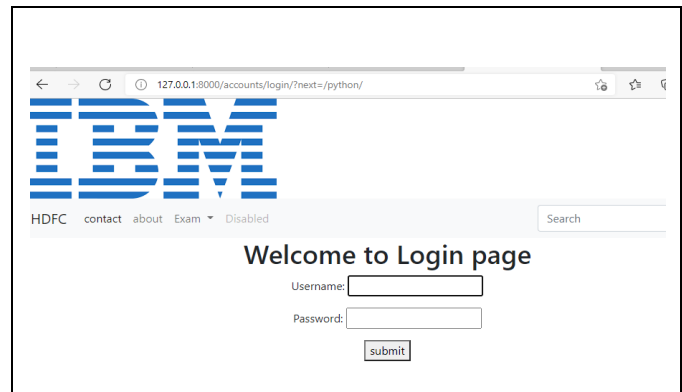parat error yeil – template not exist

Templates folder madhe – registration folder banwa – tya madhe login.html create kra.

Advtemplate-Templates-registration- login.html (index madhla code copy paste kela thode changes)
Login hoil aata login madhe aaplya la userid aani password sathii form create karawa lagnar aahe .

```html
<!DOCTYPE html>
{% extends 'advapp/base.html'%}
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
{%block base_block %}
<div class="container" align="center">
    <h1> Welcome to Login page</h1>
    <form method="Post">
        {{form.as_p}}
        {% csrf_token%}
        <button type="submit">submit</button>
    </form>
{%endblock%}

</body>
</html>
```


2. Python manage.py makemigrations
3. Python manage.py migrate   -- sarv tables bantil
4. python manage.py createsuperuser
5. username: admin
6. Email address: admin@gmail.com
7. password: admin@123
8. password: admin@123
9. Bypass password validation and create user anyway? [y/N]: y
10. Python manage.py runserver

Aata python chy page warti jaa

Username madhe- admin
Password madhe – admin@123
Login successfully yeil – welcome to python page

 Add one user User – test Password- test@123	First name : rushi Last name : ingole Email: rushitoshingole47@gmail.com

Database myql madhe pahnya sathi mysql> Show databases; mysql> Use python26template; mysql> show tables; mysql> select * from auth_user;	id | password | last_login | is_superuser | username | first_name | last_name | email | is_staff | is_active | date_joined | +----+--+----------------------------+--------------+----------+- ----------+----------+---------------------------+----------+-----------+---------------------------+ | 1 | pbkdf2_sha256$320000$lyMwXxBEXuK9RoUFKqkfz2$pY6HTWkFdHCmf3TMw2E+y7kJsw2U8jLJoEANYfpDXYw= | 2022-03-03 09:35:54.032722 | 1 | admin | | | admin@gmail.com | 1 | 1 | 2022-03- 03 09:25:57.401452 | | 2 | pbkdf2_sha256$320000$bh1yv35pOPJmAyfxqNbZYr$0oBMJLXnPYfP9BPYGVxmOWVtpD7LjkbJTpguonUHdGc= | 2022-03-03 09:40:41.511935 | 0 | test | rushi | ingole | rushitoshingole47@gmail.com | 0 | 1 | 2022-03-03 03:09:47.000000 |

Page logou karaich aahe - remaining Base.html

```html
<!DOCTYPE html>
{% load static %}
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script>
</head>

<body>

<nav class="navbar navbar-expand-lg navbar-light bg-light">

  <div class="container-fluid">

    <a class="navbar-brand" href="/">HDFC</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>.

    <div class="collapse navbar-collapse" id="navbarSupportedContent">

    <ul class="navbar-nav me-auto mb-2 mb-lg-0">
      <li class="nav-item">
        <a class="nav-link active" aria-current="page" href="/contact">Contact</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="/about">About</a>
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
          Exam
        </a>
        <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
          <li><a class="dropdown-item" href="/python">Python</a></li>
          <li><a class="dropdown-item" href="/java">Java</a></li>


        </ul>
      </li>
    <li class="nav-item">
      <a class="nav-link" href="/accounts/logout">Log out</a>
    </li>
    </ul>
    <form class="d-flex">
      <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
      <button class="btn btn-outline-success" type="submit">Search</button>
    </form>
   </div>
  </div>
</nav>
 <img src="{%static "img/pushpa.jpg" %}" alt="pushpa" align="center">
{% block base_block %}
{%endblock%}
</body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script>

</head>
<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">

    <a class="navbar-brand" href="#">HDFC</a>      # changes
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="navbarSupportedContent">

    <ul class="navbar-nav me-auto mb-2 mb-lg-0">
      <li class="nav-item">
        <a class="nav-link active" aria-current="page" href="home">Home</a>      # changes
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">about</a>        # changes
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
          Exam        # changes
        </a>
        <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
          <li><a class="dropdown-item" href="python">python</a></li>      # changes
          <li><a class="dropdown-item" href="java">java</a></li>          # changes

          <li><a class="dropdown-item" href="#">Something else here</a></li>
        </ul>
      </li>
      <li class="nav-item">
        <a class="nav-link disabled">Disabled</a>
      </li>
    </ul>
    <form class="d-flex">
      <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
      <button class="btn btn-outline-success" type="submit">Search</button>
    </form>
   </div>
  </div>
</nav>
{% block base_block %}
{%endblock%}
</body>
</html>
```

27/02/2022

DB connection front end to backend

9. <mark>Create project – formproject</mark>
10. Enter in project – cd formproject
11. Create project level app – formapp
12. Create project lavel template – inside template – html file
13. Create database in mysql line command –formproject2627.

Open setting in formproject – here reigister formapp, register template dir, and database connection Setting.		

INSTALLED_APPS = [
'django.contrib.staticfiles',
'formapp',
	'DIRS': [TEMPLATE_DIR],	DATABASES = {
		   'default': {
		      'ENGINE': **'django.db.backends.mysql'**,
		      'NAME': **'formproject2627'**,
		      'USER': **'root'**,
		      'PASSWORD': **'root'**,

>Python manage.py shell
>from django.db import connection
>c = connection.cursor()
>exit()

Aata form create karaaicha ---- Application level create new python file
Formapp- forms.py

```python
from django import forms

class FeedbackForm(forms.Form):
    CHOICES = [('1','Male'),('2','Female')]
    name = forms.CharField(max_length=30)
    city= forms.CharField(max_length=20)
    mobile = forms.IntegerField()
    Email= forms.EmailField()
    gen = forms.ChoiceField(widget=forms.RadioSelect, choices=CHOICES)
```

views.py
```python
from django.shortcuts import render
from .forms import FeedbackForm

# Create your views here.
def show(r):
    form = FeedbackForm()
    my_dict = {'form':form}

    return render (r,'feedback.html',context=my_dict)
```

Form la display karaich aahe aata – template-feedback.htm
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<div class="container" align="center">
{{form}}
</body>
</html>
```

Create url s- urls.py

```python
from django.contrib import admin
from django.urls import path
from django.contrib import admin
from django.urls import path
from formapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('feedback/', views.show),
]
```

Python manage.py runserver- -http://127.0.0.1:8000/feedback/

Changes modify in html file
```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Title</title>
</head>
<body>
<h1 align ="center" >welcome to Feedback form </h1>
<div class="container" align="center">
{{form.as_p}}
<input type="submit" class="btn btn-primary" name="" value="submit" >
</body>
</html>
```

Aata aapla purn form create zaala pan tya madhe data takla tr save nahi honar tya sathi aata aaplyala –post method use karawi lagel backend la data save honya sathi . and new file create krun model.py file ni connect karun ghyawa lage

CREATE TABLE IN –FORMAPP- models.py

DB connection front end to backend

1. Create project – modelformproject
2. Enter in project – cd modelformproject
3. Create project level app – modelapp
4. Create project lavel template – inside template – html file
5. Create database in mysql line command –formproject2627.
6. Setting same as it is above

In app- models,py	In app- forms,py

``python
from django.db import models
 	
# Create your models here. 	
class ModelFeedback(models.Model):
    name = models.CharField(max_length=20)
    age = models.IntegerField()
    mobile = models.IntegerField()
    Email= models.EmailField()
    date = models.DateField()
``
	``python
	from django import forms
	from .models import ModelFeedback
	
	# Create your models here.
	class FeedbackForm(forms.ModelForm):
	    class Meta:
	        model = ModelFeedback
	        fields = '__all__'
	        #field = ['name','age']
	        #exclude= ['name']
	``

In app- Views.py

Feedbackform.html – copy paste code kara bakicha as it is check	Urls.py

``python
from django.shortcuts import render
from .forms import FeedbackForm
 	
# Create your views here. 	
def show(r):
    form = FeedbackForm()
    my_dict = {'form': form}
 	
    return render(r, 'feedbackform.html', context=my_dict)
``
	``python
	from django.contrib import admin
	from django.urls import path
	from modelapp import views
	
	urlpatterns = [
	    path('admin/', admin.site.urls),
	    path('feedback/', views.show),
	]
	``

Views.py	

``python
from django.shortcuts import render
from .forms import FeedbackForm
 	
# Create your views here. 	
def show(r):
    form = FeedbackForm()
    my_dict = {'form': form}
 	
    return render(r, 'feedbackform.html', context=my_dict)
``	

Connection nantr make migratin kariach aahe 2hi forms sathi
Python manage.py runserver- http://127.0.0.1:8000/ ---page not found
http://127.0.0.1:8000/feedback/ --- welcome to feedback form --
form submit hoat nahi aata tyasathi – `input he form madhe oahije – feedback.html file madhe`

feedbackform.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<h1 align ="center" >welcome to Feedback form </h1>
<div class="container" align="center">
    <form method="post">
        {{form.as_p}}
        <input type="submit" class="btn btn-primary" name="" value="submit" >
    </form>


</body>
</html>
```
Form submit hoil pan error yeil form submit zalya warti –forbidden- data server parent jaat nahi
Interview question what is mean by csrf-
CROSS SIDE REQUEST FORGERY – CREATE TOKEN FOR DATA SAVE TO SEREVER .

WRITE COD INSIDE – feedbackform.HTML – token
-{{form.as_p}}
{%csrf_token%}
<input type="submit" class="btn btn-primary" name="" value="submit" >

In mysql – show databases
Use formproject2627;
Show tables

Form submit hoil pan data catch karat nahiye tya sathi I use post method inside views.py
```python
from django.shortcuts import render

# Create your views here.
from django.shortcuts import render
from .forms import FeedbackForm
from django.http import HttpResponse  -- submit zalyawarti msg deil



# Create your views here.
def show(r):
    form = FeedbackForm()
    my_dict = {'form':form}
    if r.method == 'POST':
        form = FeedbackForm(r.POST)
        if form.is_valid():
            form.save(commit=True)
            return HttpResopnse('<h1> Data submitted succesfully Thank you</h1>')



    return render(r, 'feedbackform.html', context=my_dict)
```

He sarv submit honya sathi sarwat pahile databse create karawa lagel aaplyla tenva kuthr submit hoil mhnje index type kelaya warti indes warti /inex warti table disel - copy paste jinjatemplate for table displaay

1. Create project – **sbi**
2. Enter in project – cd sbi
3. Create project level app – **loanpp** – register in setting
4. Create one directory /folder at prject – **templates** –
5. Create one more directory inside **templates** -**loanapp**
6. Create four html files inside **templates** -**loanapp—**
   1. **base.html   2.contact.html   3.home.html**
7. Open setting in advtemplate and register template- **setting.py**

Setting.py	
1ST INSTALLED_APPS = [**'django.contrib.staticfiles'**, **'loanapp'**	2ND BASE_DIR = Path(__file__).resolve().parent.parent **TEMPLATE_DIR = Path.joinpath(BASE_DIR,'templates') - (ADD)** TEMPLATES = [**'DIRS'**: [TEMPLATE_DIR], --(ADD)

3RD DATABASES = {
    'default': {
        'ENGINE': **'django.db.backends.mysql'**,
        'NAME': **'python242526'**,
        'USER': **'root'**,
        'PASSWORD': **'root'**,	

8. Create database –inside mysql line command -- python242526
   -mysql> create database python242526;

---

1. base.html file open and copy code from - https://getbootstrap.com/-- components - navbar
And paste inside body. – 2 body chya madhe paste kaara

Also in html file add css inbetween title and head –https://getbootstrap.com/-- home – download-cd viajs delivr – copy
(Title chy khali ani head chya warti)

Copy code	Changes in code
| ```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>

</head>
<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
 <div class="container-fluid">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
   <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarSupportedContent">
  <ul class="navbar-nav me-auto mb-2 mb-lg-0">
   <li class="nav-item">
    <a class="nav-link active" aria-current="page" href="#">Home</a>
   </li>
   <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
``` | ```html
<!DOCTYPE html>
{% load static %}
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Title</title>

   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>

</head>
<body>

<nav class="navbar navbar-expand-lg navbar-light bg-light">
 <div class="container-fluid">
  <a class="navbar-brand" href="#">SBI</a>
  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
   <span class="navbar-toggler-icon"></span>
  </button>

  <div class="collapse navbar-collapse" id="navbarSupportedContent">

   <ul class="navbar-nav me-auto mb-2 mb-lg-0">
    <li class="nav-item">
``` |

Left column (continued navbar code):

```
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
            Dropdown
          </a>
          <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
            <li><a class="dropdown-item" href="#">Action</a></li>
            <li><a class="dropdown-item" href="#">Another action</a></li>
            <li><hr class="dropdown-divider"></li>
            <li><a class="dropdown-item" href="#">Something else here</a></li>
          </ul>
        </li>
        <li class="nav-item">
          <a class="nav-link disabled">Disabled</a>
        </li>
      </ul>
      <form class="d-flex">
        <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success" type="submit">Search</button>
      </form>
    </div>
  </div>
</nav>
{% block base_block% } -----must imp add
{% endblock %}---------------must imp add
</body>
</html>
```

Right column (continued navbar code):

```
          <a class="nav-link active" aria-current="page" href="/contact">Contact</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
            Enquiry
          </a>
          <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
            <li><a class="dropdown-item" href="/loan">Loan</a></li>
            <li><a class="dropdown-item" href="/creditcard">Creditcard</a></li>
            <li><a class="dropdown-item" href="/home">Home</a></li>
          </ul>
        </li>
        <li class="nav-item">
          <a class="nav-link disabled">Disabled</a>
        </li>
      </ul>

    </div>
  </div>
</nav>
{%block base_block %}
{%endblock%}
</body>
</html>
```

Open home html		Contact.html
```<!DOCTYPE html>{% extends 'loanapp/base.html'%}<html lang="en"><head> <meta charset="UTF-8"> <title>Title</title></head><body>{%block base_block %} Welcome to home page {%endblock%}</body></html>```		```<!DOCTYPE html>{% extends 'loanapp/base.html'%}<html lang="en"><head> <meta charset="UTF-8"> <title>Title</title></head><body>{%block base_block %} Welcome to contact page {%endblock%}</body></html>```

Yaa madhe space khup imp ahe eka jari base cha space miss zala tr code madhe error yeil
{% extends 'advapp/base.html'%} he je add krto te get method mhntat yala

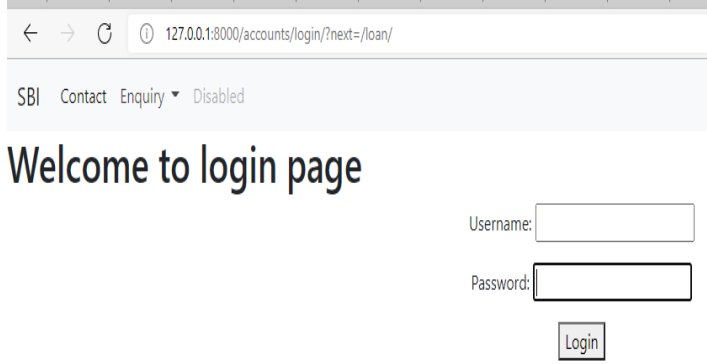Python manage.py runserver -http://127.0.0.1:8000/

Aata aaplyala loan,creditcard ani home chya page warti click kela tar te page open zale pahije tya sathi aapna 3html files create karut pahily jithe html files hoty tithech

Loan.html	Credit.html	Home.html
```<!DOCTYPE html>{% extends 'loanapp/base.html'%}<html lang="en"><head> <meta charset="UTF-8"> <title>Title</title></head><body>{%block base_block %} Welcome to loan page {%endblock%}</body></html>```	```<!DOCTYPE html>{% extends 'loanapp/base.html'%}<html lang="en"><head> <meta charset="UTF-8"> <title>Title</title></head><body>{%block base_block %} Welcome to creditcard page {%endblock%}</body></html>```	```<!DOCTYPE html>{% extends 'loanapp/base.html'%}<html lang="en"><head> <meta charset="UTF-8"> <title>Title</title></head><body>{%block base_block %} Welcome to home page {%endblock%}</body></html>```

Aatachya 3 files sathi **url banwa**	Aatachya 3 files display kra **views** madhe

Urls.py
 	
``python
from django.contrib import admin
from django.urls import path
from loanapp import views
 	
urlpatterns = [
    path('admin/', admin.site.urls),
    path('',views.home),
    path('contact/', views.contact),
    path('loan/', views.loan),
    path('credit/', views.credit),
    path('home/', views.home),
]
``
	Views.py
	``python
	from django.shortcuts import render
	
	# Create your views here.
	def home(r):
	    return render(r,'loanapp/home.html')
	
	def contact(r):
	    return render(r,'loanapp/contact.html')
	
	def loan(r):
	    return render(r,'loanapp/loan.html')
	
	def credit(r):
	    return render(r,'loanapp/credit.html')
	
	def homeloan(r):
	    return render(r,'loanapp/home.html')
	``

Python manage.py runserver -http://127.0.0.1:8000/
Aata loan , credit , home click kela tr enter hoil ani welcome to show hoil

---

AUTHORIZATION IMPLEMENT --Mhanje login warti click kelyawarti userid password yeil tya sathi method (decorator use karwa lagel)
Jithr decorator lavla toch fakt login sathi use kart yeil

Views.py	**Urls.py**

``python
from django.shortcuts import render
from django.contrib.auth.decorators import login_required
 	
# Create your views here. 	
def home(r):
    return render(r,'loanapp/home.html')
 	
def contact(r):
    return render(r,'loanapp/contact.html')
@login_required   # decorator
def loan(r):
    return render(r,'loanapp/loan.html')
@login_required
def credit(r):
    return render(r,'loanapp/credit.html')
 	
def homeloan(r):
``
	``python
	from django.contrib import admin
	from django.urls import path,include
	from loanapp import views
	
	urlpatterns = [
	    path('admin/', admin.site.urls),
	    path('',views.home),
	    path('contact/', views.contact),
	    path('loan/', views.loan),
	    path('credit/', views.credit),
	    path('homeloan/', views.homeloan),
	    path('accounts/', include('django.contrib.auth.urls')),
	
	]
	``

Aata template madhe -registration folder create karun tya madhe – login.html file create kara

Templates- registration-login.html
Yaa madhe user id & password sathi form create karaicha aahe post method cha use karun token pan dywa lagel form la

| Ek form
Ek token
Align | ```html
{%block base_block %}
<h1> Welcome to login page</h1>
<div class="jumbotron"></div>
<div class="container" align="center"
<form method="post">
``` |

| jumbotron | ```
{{form.as_p}}
{%csrf_token%}
<button type="submit">Login</button>
</form>
</div>
``` |

Templates- registration-login.html

```html
<!DOCTYPE html>
{% extends 'loanapp/base.html'%}
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
{%block base_block %}
<h1> Welcome to login page</h1>
<div class="jumbotron"></div>
<div class="container" align="center">
<form method="post">
    {{form.as_p}}
    {%csrf_token%}
<button type="submit" class="btn-primary">Login</button>

    </form>
</div>
    </div>

{%endblock%}

</body>
</html>
```

Python manage.py runserver

Login disel pan submit nahi honar
User id & password takly warti – tya sathi aaplyala base.html madhe access karwa lagel tya sathi table create karun make migration . database create kela aahe aapan python242526

---

11. Python manage.py makemigrations
12. Python manage.py migrate   -- sarv tables bantil
13. python manage.py createsuperuser

14. username: python
15. Email address: python @gmail.com
16. password: python@123
17. password: python@123
18. Bypass password validation and create user anyway? [y/N]: y
19. Python manage.py runserver

User id and password taklya warti submit hoil .
Aaplya la logiut karaichh aahe aata

Aata python chy page warti jaa

Username madhe- python
Password madhe – python@123
Login successfully yeil – welcome to python page

Base.html

```html
<!DOCTYPE html>
{% load static %}
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-
ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script>

</head>
<body>

<nav class="navbar navbar-expand-lg navbar-light bg-light">
 <div class="container-fluid">
  <a class="navbar-brand" href="#">SBI</a>
  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>

  <div class="collapse navbar-collapse" id="navbarSupportedContent">


   <ul class="navbar-nav me-auto mb-2 mb-lg-0">
    <li class="nav-item">
     <a class="nav-link active" aria-current="page" href="/contact">Contact</a>
    </li>

    <li class="nav-item dropdown">
     <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-
expanded="false">
      Enquiry
     </a>
     <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
      <li><a class="dropdown-item" href="/loan">Loan</a></li>
      <li><a class="dropdown-item" href="/credit">Creditcard</a></li>
      <li><a class="dropdown-item" href="/homeloan">Homeloan</a></li>
     </ul>
    </li>
        <li class="nav-item">
     <a class="nav-link active" aria-current="page" href="/accounts/login">login</a>
    </li>
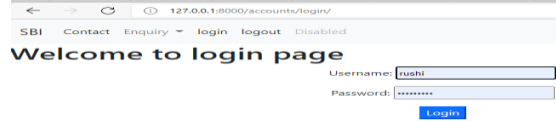        <li class="nav-item">
     <a class="nav-link active" aria-current="page" href="/accounts/logout">logout</a>
    </li>

    <li class="nav-item">
     <a class="nav-link disabled">Disabled</a>
    </li>
   </ul>
  </div>
 </div>
</nav>
```

```
{%block base_block %}
{%endblock%}
</body>
</html>
```

Setting.py STATIC_URL = 'static/' LOGIN_REDIRECT_URL = "/" -- add	

Logout kela tr jango chya page warti jail swatachya page warti yacih asel tar swatach logout page banwa

Templates-loanapp – already 6 html files tithech	Views.py	Urls.py

Templates-loanapp – already 6 html files tithech

```html
<!DOCTYPE html>
{% extends 'loanapp/base.html'%}
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Title</title>
</head>
<body>
{%block base_block %}
<h1>  logout successfuly </h1>
<a href="/accounts/login" class="btn btn
primary">login</a>
{%endblock%}
</body>
</html>
```

Views.py

```python
from django.shortcuts import render
from django.contrib.auth.decorators
import login_required

# Create your views here.
def home(r):
    return render(r,'loanapp/home.html')

def contact(r):
    return
render(r,'loanapp/contact.html')
@login_required              # decorator
def loan(r):
    return render(r,'loanapp/loan.html')
@login_required
def credit(r):
    return render(r,'loanapp/credit.html')
@login_required
def homeloan(r):
    return render(r,'loanapp/home.html')

def logout(r):
    return render(r,'loanapp/logout.html')
```

Urls.py
```python
from django.contrib import admin
from django.urls import path,include
from loanapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('',views.home),
    path('contact/', views.contact),
    path('loan/', views.loan),
    path('credit/', views.credit),
    path('homeloan/', views.homeloan),
    path('accounts/',
include('django.contrib.auth.urls')),
    path('logout/', views.logout),

]
```

Setting.py
```
STATIC_URL = 'static/'
LOGIN_REDIRECT_URL = "/"
LOGOUT_REDIRECT_URL ="/logout"
```

Database myql madhe pahnya sathi mysql> Show databases; mysql> Use python242526 mysql> show tables; mysql> select * from auth_user;	

Aaaplyala aata sign-up create karaich aahe

- Create two python files inside sbi- loanapp- forms.py (not in templates- loanapp)
- Template – loanapp – create – signup.htm page

1ˢᵗ Sbi – loanapp - Forms.py	2ⁿᵈ Templates- laonapp --Signup.html

``python
from django import forms
from django.contrib.auth.models import User
 	
# Create your models here. 	
class Signupform(forms.ModelForm):
    class Meta:
        model = User
fields = ['username',
'password','email','first_name','last_name']
``
	``html
	<!DOCTYPE html>
	{% extends 'loanapp/base.html'%}
	<html lang="en">
	<head>
	    <meta charset="UTF-8">
	    <title>Title</title>
	</head>
	<body>
	{%block base_block %}
	
	<div class="jumbotron">
	<div class="container" align="center">
	    <h1> Welcome to signup page</h1>
	<form method="post">
	    {{form.as_p}}
	    {%csrf_token%}
	    <button type="submit" class="btn-primary">Login</button>
	    </form>
	</div>
	    </div>
	{%endblock%}
	</body>
	</html>
	``

3ʳᵈ sbi-loanapp- views.py

```python
from django.shortcuts import render
from django.contrib.auth.decorators import login_required
from.forms import Signupform                 -----------------------------add
from django.http import HttpResponseRedirect ----------------------add

# Create your views here.
def home(r):
    return render(r,'loanapp/home.html')

def contact(r):
    return render(r,'loanapp/contact.html')
@login_required               # decorator
def loan(r):
    return render(r,'loanapp/loan.html')
@login_required
def credit(r):
    return render(r,'loanapp/credit.html')
@login_required
def homeloan(r):
    return render(r,'loanapp/home.html')

def logout(r):
    return render(r,'loanapp/logout.html')

def signup(r):                ---- addd
    form = Signupform()
    if r.method=='POST':
        form = Signupform(r.POST)
```

```
    if form.is_valid():
        user = form.save()
        user.set_password(user.password)
      user.save()

        return HttpResponseRedirect('accounts/login')

    return render(r,'/loanapp/signup.html',{'form':form})
```

4th sbi- urls.py

```python
from django.contrib import admin
from django.urls import path,include
from loanapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('',views.home),
    path('contact/', views.contact),
    path('loan/', views.loan),
    path('credit/', views.credit),
    path('homeloan/', views.homeloan),
    path('accounts/', include('django.contrib.auth.urls')),
    path('logout/', views.logout),
    path('signup/', views.signup),    ------------------add
]
```

Base.html—
- Basecha as it is code tasach rahil logout parent fakt tya khali signup cha code add hoil.

```html
    <li class="nav-item">
 <a class="nav-link active" aria-current="page" href="/accounts/login">login</a>
</li>
    <li class="nav-item">
 <a class="nav-link active" aria-current="page" href="/accounts/logout">logout</a>
</li>
```

```html
 </li>
    <li class="nav-item">
  <a class="nav-link active" aria-current="page" href="/signup">signup</a>
 </li>
```

Python manage.py runserver -http://127.0.0.1:8000/
Signup form create hoil

CURD OPERATION

1. Create project – curdproject	2. Create application – curdapapp (register in setting)
3. Create project level –template – base.html, index.html - (register in setting.py)	
4. Configure data in setting.py	

5. Create database –inside mysql line command – python2627curd; -mysql> create database python2627curd;	6. In command promt - > Python manage.py shell > from django.db import connection > c = connection.cursor() > exit()

7. curdapp-model.py	8 . Table create karnya sathi command

```python
from django.db import models


class Students(models.Model):
    roll = models.IntegerField(primary_key=True)
    name = models.CharField(max_length=25)
    address = models.CharField(max_length=25)
    email = models.EmailField()
    record = models.DateField(auto_created=True)
    date = models.DateTimeField(auto_created=True)
```

```
>Python  manage.py make migrations
> python manage.py migrate
```

9- curdapp- forms.py (create)	10- curdapp – admin.py (tashi garaj nahi)

```python
from django import forms
from .models import Students


class StudentForm(forms.ModelForm):
    class Meta:
        model=Students
        fields = "__all__"
```

```python
from django.contrib import admin
from .models import Students


class StudentAdmin(admin.ModelAdmin):
    list_display = ['roll','name','address']

admin.site.register(Students,StudentAdmin)
```

11- template – create.html (create)	11- create.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
</head>
<body>
<div class="container" align="center">
  {%block base_block%}
  {%endblock%}
</div>
</body>
</html>
```

```html
<!DOCTYPE html>
{%extends 'base.html'%}
{%block base_block%}
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
<h1 align="center">Student create form</h1>
<hr>
<div class="container" align="center">
  <form method="POST">
{{form.as_p}}
{%csrf_token%}
  <input type="submit" class="btn btn-success btn-lg" value="Create Record">
    </form>
  </div>
{%endblock%}

</body>

</html>
```

Views.py	urls.py
| ```python
from django.shortcuts import render
from .forms import StudentForm
from .forms import Students
# Create your views here.

def display(r):
    pass
def create(r):
    form = StudentForm()

    return render(r,'create.html')
``` | ```python
from django.contrib import admin
from django.urls import path
from curdapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('create/', views.create),

]
``` |


Student create form

Date:
Record:
Roll:
Name:
Address:
Email:
Create Record

Views.py	Urls.py
| ```python
from django.shortcuts import render
from .forms import StudentForm
from .models import Students
from django.http import HttpResponseRedirect
# Create your views here.

def index(r):
    data = Students.objects.all()
    return render(r,'index.html',{'data':data})
def create(r):
    form = StudentForm()
    if r.method =='POST':
        form = StudentForm(r.POST)
        if form.is_valid():
            form.save(commit=True)
            return HttpResponseRedirect('/')
    return render(r,'create.html',{'form':form})
``` | ```python
from django.contrib import admin
from django.urls import path
from curdapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path('create/', views.create),
    path('',views.index),

]
``` |
| Index.html
```html
<!DOCTYPE html>
{%extends 'base.html'%}
{%block base_block%}
<style>
    table,th,td{
    border : 1px solid black;
    border-collapse: collapse;
    }
    th,td{
padding:5 px;
text-align :center;
}
</style>


<body>
<h1>Student Data</h1>
``` |  |

```html
<table border="3">
   <thead>
   <th>Roll No</th>
   <th>Name</th>
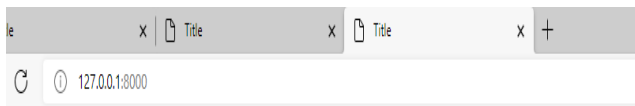   <th>Address</th>
   <th>Email</th>
   <th>Record</th>
   <th>Date</th>
   </thead>
   {%for emp in data%}
   <tr>
      <td>{{emp.roll}}</td>
      <td>{{emp.name}}</td>
      <td>{{emp.address}}</td>
      <td>{{emp.email}}</td>
      <td>{{emp.record}}</td>
      <td>{{emp.date}}</td>
      <td><a href="update/{{emp.id}}"> Update</a> <a
href="delete/{{emp.id}}">Delete</a></td>


   </tr>
{%endfor%}
</table><br><br>
<a href="create/" class="btn btn-primary btn-lg">Insert New
Employee</a>
{%endblock%}


</body>
</html>
```