1. Start eclipse
2. Create Django Project
   1. File -> New -> Other -> Search for Django -> PyDev -> PyDev Dango Project -> Next -> give project name say “dj4” -> select grammer version say “3.6” -> select interpreter (if not showing then configure interpreter to the python installation you want to use) -> Next -> Next -> Finish
3. Create an application (commonly known as module in other language)
   1. Right click on project say “dj4” -> Django -> Create Application
   2. Give name of Django app say “college” -> Ok
   3. Right click on project say “dj4” -> Refresh
4. Create Model Class for your tables inside app (module) -> inside models.py
   1. Go inside college folder then open models.py:

from django.db import models

class Notice(models.Model):

subject = models.CharField(max\_length = 100)

msg = models.TextField()

cr\_date = models.DateTimeField(auto\_now\_add=True)

1. Go inside settings.py and add college as INSTALLED\_APPS
   1. Go to the folder named same as your project name say “dj4”
   2. Open file settings.py

INSTALLED\_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'college',

]

….

TIME\_ZONE = 'Asia/Kolkata'

1. Make Migrations:
   1. Right click on project -> Django -> Make Migrations
   2. Give Django app name say “college” -> OK
2. Migrate:
   1. Right click on project -> Django -> Migrate (make sure there is no error while migrations are applied)
3. Create Super User
   1. Go to project folder where manage.py file is present (if you don’t remember where is the folder, right click on project name -> properties -> click on resource and look at location)
   2. Open command prompt in the folder (type cmd in pathbar)
   3. Type

python manage.py createsuperuser

and follow the steps (give name, email, password and confirm password etc make sure there is no error)

1. Register your model for admin website:
   1. Inside your app say “college” there will be a file named admin.py
   2. Write the following code inside it:

from django.contrib import admin

from college.models import Notice

from django.contrib.admin.options import ModelAdmin

# Register your models here.

class NoticeAdmin(ModelAdmin):

list\_display = ["subject", "cr\_date"]

search\_fields = ["subject", "msg"]

list\_filter = ["cr\_date"]

admin.site.register(Notice, NoticeAdmin)

1. Run your project
   1. Right click on project -> Run As -> PyDev Django
   2. Open browser and type “http://127.0.0.1:8000/”
2. Open Admin page:
   1. Open browser and type “http://127.0.0.1:8000/admin/”
3. Login and enjoy
4. Go to urls.py inside folder with same name as your project name say “dj4” and write code:

from django.contrib import admin

from django.urls import path

from django.urls.conf import include

from django.views.generic.base import RedirectView

urlpatterns = [

path('admin/', admin.site.urls),

path('college/', include('college.urls')),

path('', RedirectView.as\_view(url="college/")),

]

1. Create/copy urls.py inside your app (module) say “college” and write following code:

from django.contrib import admin

from django.urls import path

from django.urls.conf import include

from college import views

from django.views.generic.base import RedirectView

urlpatterns = [

path('notice/', views.HomeView.as\_view()),

path('notice/<int:pk>', views.NoticeDetailView.as\_view()),

path('', RedirectView.as\_view(url="notice/")),

]

1. Go inside your app say “college” and open views.py and write following code:

from django.shortcuts import render

from django.views.generic.base import TemplateView

from django.views.generic.list import ListView

from college.models import Notice

from django.views.generic.detail import DetailView

# Create your views here.

class HomeView(ListView):

model = Notice

class NoticeDetailView(DetailView):

model = Notice

1. Go to urls.py inside app say “college” and type space at the end and save just to refresh!! Tough not necessary
2. Inside your app say “college” create a folder named templates:
   1. Right click on college -> New -> Folder -> type templates -> Finish
3. Inside templates folder create a html fine named base.html and write following code:
   1. Right click on templates -> New -> Other -> Search for html -> html file -> Next -> base.html -> Finish

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h1>Menu Etc</h1>

{% block content %}

{% endblock %}

<p>Copyright @ Bla</p>

</body>

</html>

1. Create a folder named same as your app name say college inside templaes
2. Create two html files inside college/templates/college named notice\_list.html (because model name is Notice) and notice\_detail.html and write the following code:

Inside notice\_list.html:

{% extends 'base.html' %}

{% block content %}

<h1>I am home</h1>

{% for n1 in notice\_list %}

<h1><a href="/college/notice/{{ n1.id }}">{{ n1.subject }}</a></h1>

{% endfor %}

{% endblock %}

Inside notice\_detail.html:

{% extends 'base.html' %}

{% block content %}

<h1>I am home</h1>

<a href='/college/notice'>Back</a>

<h1>{{ notice.subject }}</h1>

<p>{{ notice.msg }}</p>

<p>{{ notice.cr\_date }}</p>

{% endblock %}

1. Terminate any already running Django project by clicking red terminate button
2. Run the project
3. Go to <http://127.0.0.1:8000/admin>
4. Add some notices
5. Then visit <http://127.0.0.1:8000/college/notice/>

**Login Mech**

1. Install Django-registration-redux for registration module:
   1. Go to command prompt and type following command

pip install django-registration-redux

1. Go to settings.py inside your app and update INSTALLED\_APP

INSTALLED\_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'registration',

'college',

]

1. In settings.py add following code at the end:

ACCOUNT\_ACTIVATION\_DAYS=3

EMAIL\_HOST= 'smtp.gmail.com'

EMAIL\_HOST\_USER= 'ec.smtp.test2@gmail.com'

EMAIL\_HOST\_PASSWORD= 'xxxx'

EMAIL\_PORT= 587

EMAIL\_USE\_TLS= True

1. Go to urls.py inside the main folder, folder with same name as your project name **not** in your app urls.py, say go to “dj4.urls.py”

urlpatterns = [

path('admin/', admin.site.urls),

path('college/', include('college.urls')),

path('accounts/', include('registration.backends.default.urls')),

path('', RedirectView.as\_view(url="college/")),

]

1. Migrate
2. Update views.py add method decorator for views where you want login required:

from django.utils.decorators import method\_decorator

from django.contrib.auth.decorators import login\_required

@method\_decorator(login\_required, name="dispatch")

class NoticeDetailView(DetailView):

model = Notice

1. Update your htmls and put condition for links based on login status
   1. For example you might need to show login link only oif user is not logged in, and logout only if he/she has logged in
   2. Go to base.html and update the code:

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h1>Menu Etc</h1>

{% if user.is\_authenticated %}

<a href="/accounts/logout">Logout</a>

{% else %}

<a href="/accounts/login">Login</a>

{% endif %}

{% block content %}

{% endblock %}

<p>Copyright @ Bla</p>

</body>

</html>

1. Go to settings.py add the following line at the end of the file:

LOGIN\_REDIRECT\_URL = "/"

1. Run as Django and enjoy