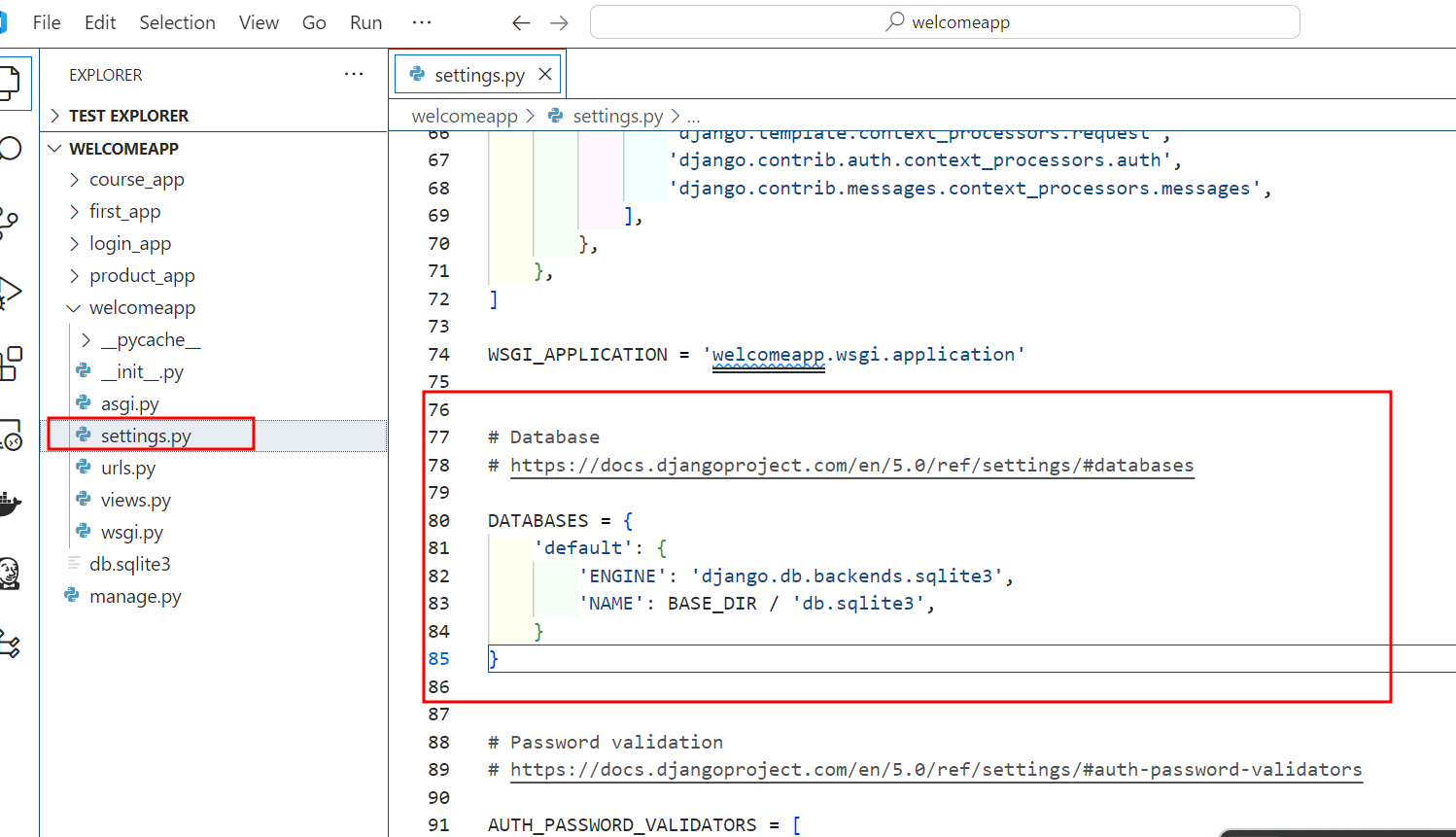
Day 3 – 16 Aug 2024

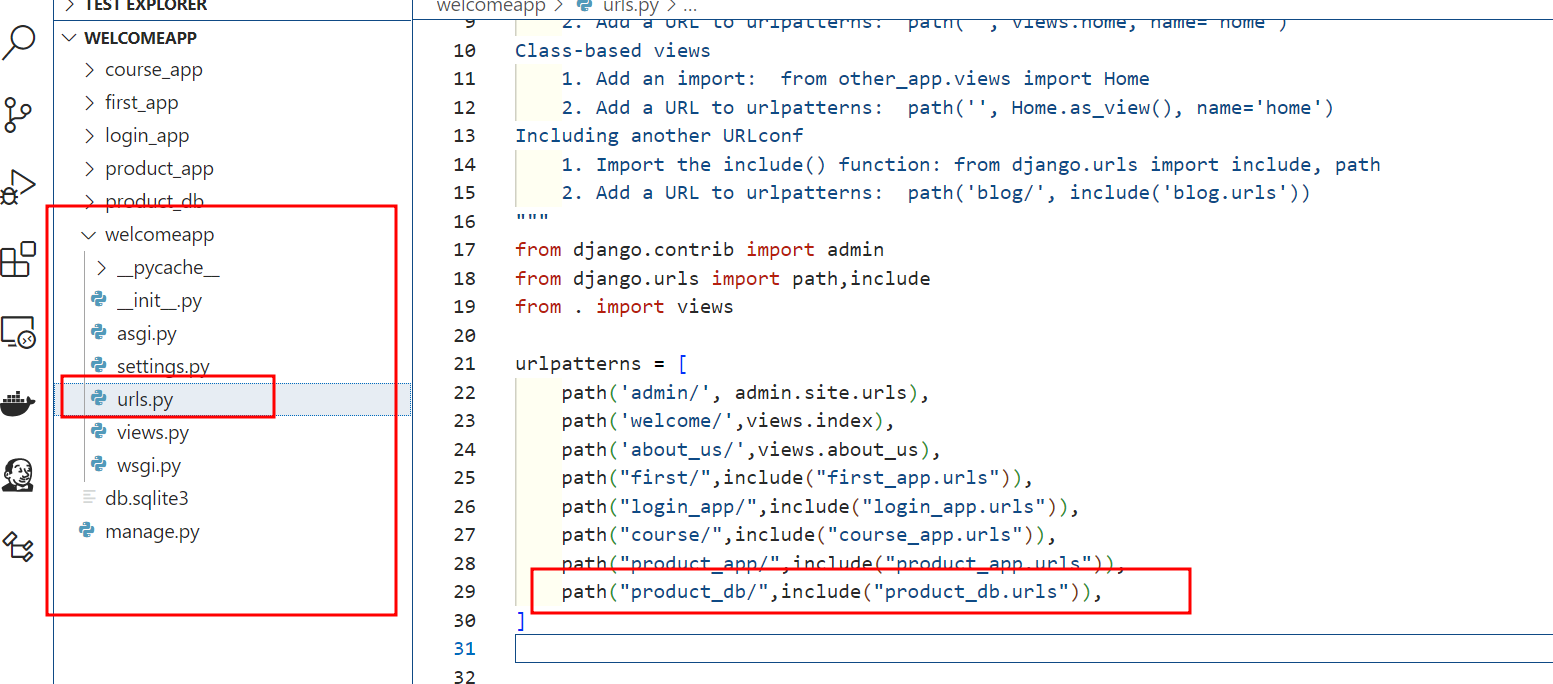
Django with Database.

By default Django provide SQLite database configuration.

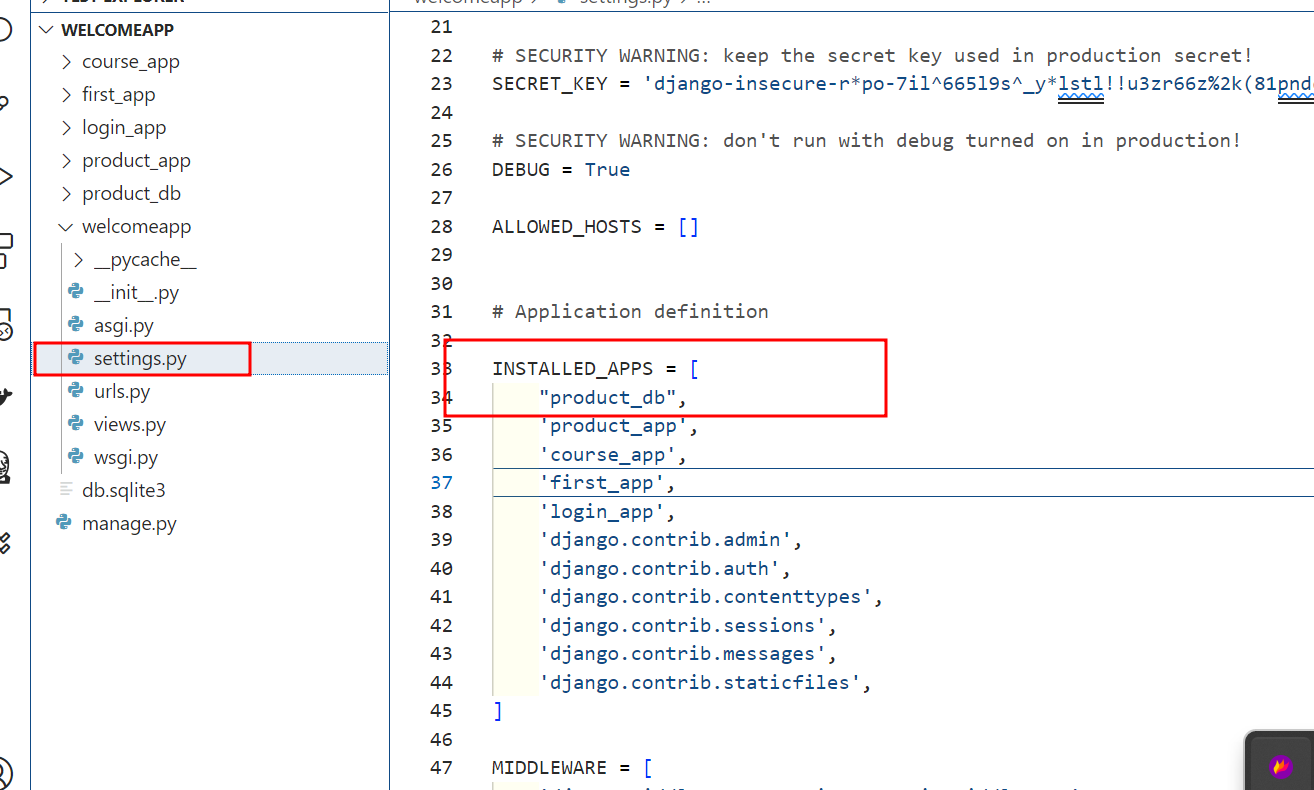


python manage.py startapp product\_db

please provide product\_db module or app details in urls.py file in main project.



Now in settings.py file provide product\_db app or modules details.



MVT : View, Template

Model : In Django, A model is a fundamental component of the Django framework that represents and manage the data in our application. Model is layer of MVT architecture. Models are python classes that define the structure of our data and provide an abstract layer for interacting with database by default database is SQLite.

Create the model

from django.db import models

# Create your models here.

class Product(models.Model):

    product\_id=models.AutoField   # auto increment

    product\_name=models.CharField(max\_length=100)

    product\_price=models.FloatField

Then we need to run two command ie makemigrations and migrate

python manage.py makemigrations

python manage.py migrate

now we will do some operation using admin dashboard

so we will create admin user.

python manage.py createsuperuser

connection postgres database

open the terminal

psql -U postgres -h localhost

password :

after connected postgres database

if you want to create new database please run below command

create database databasename

\c databasename

\dt this command is use to view all relation or table present in your database ie mydb

So if we want to connect postgres database using Django we need to install postgres engine ie dependency

Please run the command as

pip install psycopg2 this command is use to install third party module to connect postgres database.

pip list this command is use to check all modules or dependencies present in current project

now we need to provide postgres database details in settings.py file

DATABASES = {

    'default': {

        'ENGINE': 'django.db.backends.postgresql\_psycopg2',

        'NAME': 'mydb',

        'USER':'postgres',

        "PASSWORD":'postgres',

        'HOST':'127.0.0.1',

        'PORT':'5432'

    }

}

Then run the command as makemigrations and migrate

python manage.py makemigrations

python manage.py migrate