Let's break down the instructions step by step to help you implement the project: TASK -1:

Environment Setup Install Python 3.x:

Download and install Python 3.x from the official website:https://www.python.org/ftp/python/3.12.4/python-3.12.4-amd64.exe

Install flask using pip:

pip install django

Install MySQL and Set Up a Local Database

Download and install MySQL from the official MySQL website. Set up a local MySQL database:

CREATE DATABASE sample;

Task 1: Django API Development:

1. Creating new django Project.

   django-admin startproject myproject

2. Creating new django App.

cd myproject python manage.py startapp myapp

a. Create a route /hello:

http://127.0.0.1:8000/hello/ output: "Hello World!"

b. b. Implement a route /users to retrieve a list of users from a MySQL database:

http://127.0.0.1:8000/users/ output:

Name Email Age Uttam Yadav uttamcseau@gmail.com 23 Viraj Singh viraj@gmail.com 22 Radha Yadav radha@gmail.com 23

c. Implement a route /new_user to render an HTML page to accept input from the user and store the information in the database:

http://127.0.0.1:8000/new_user/ output:

Name: --------------

Email: ----------------

Age: -----

   Submit

d. Create a route /users/ that retrieves a specific user's details from the database:

http://127.0.0.1:8000/user/<1>/ output:

User Details Name: Uttam Yadav Email: uttamcseau@gmail.com Age: 23

http://127.0.0.1:8000/user/<2>/ output:

User Details Name: Viraj Singh Email: viraj@gmail.com Age: 22

http://127.0.0.1:8000/user/<2>/ output:

User Details Name: radha Email: radha@gmail.com Age: 23

e. Add error handling:

def user_detail(request,id):

try:

     user = User.objects.get(pk=id) return render(request, 'user_detail.html', {'user': user})

     except User.DoesNotExist: return HttpResponse("User not found", status=404)

to run the file use

python manage.py runserver