CS471 - Web Technologies (Laboratory)



Lab Week 4
Django and MVT
Architecture

Description.... here

Pre-lab Preparation:

- 1. Do this
- 2. Do this

Lab Activities:

Part 1: Define patterns globally (core/urls.py) and specifically for each app/module

Task 1: what is here

Step 1: what to do step-wise

Part 2: Define action functions in views.py to handle requests

Task 1: what is here

Step 1: what to do step-wise

Part 3: Create a simple HTML template

Task 1: what is here

Step 1: what to do step-wise

Part 3: Create a simple HTML template that processes a context

Task 1: what is here

Step 1: what to do step-wise

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Pages J ce urls 119-20

* Globally

Task 1: Left Pic-explain where you define the main routing configuration for the whole Diango Project it acts as the entry point for all URL requests.

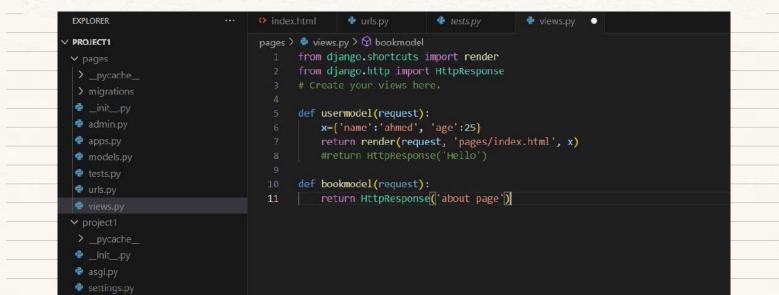
Right Pic-each app in diango can have its own urls. Py file, Which defines the routes specific to that app. this modular structure makes it easiev to manage large project.

Step: Left Pic - 1-OPen Core/UVIS.Py 2-imPort required modules 3-Define the URL patterns 4-Ensure uris.Py is included in settings.py file.

Right Pic - C-Create or open the urls. Py in each app 2-import required modules 3-Define the URL patterns 4-Link app specific URLs to the global urls. Py.

Part 2: Define action functions in views.py to handle requests Task 1: what is here

Step 1: what to do step-wise



Task 1: This is a basic action function in Diango responsible for taking the HTTP request and returning the HTTP response to the client. Step 1: 1-Import required Libraries 2-Define the Action Function 3- VetuVN Http Response Part 3: Create a simple HTML template Task 1: what is here Step 1: what to do step-wise urls.py project1 e settings.py wsgi.py 0 templates > pages > O bookmodel.html > O h1 ✓ templates\pages 1 <h1>hello</h1> bookmodel.html ■ db.sqlite3 manage.py OUTLINE TASK 1: Django uses templates to dynamically render HTML pages. Templates allow you to your Python code from the Presentation Layer (HTML). SteP 1: 1- Set UP the template directory 2-create a simple HTML template 3-Run Server and view the template Part 3: Create a simple HTML template that processes a context Task 1: what is here Step 1: what to do step-wise Task 1: System allows you to Pass context from Views to templates this task will guide you through the creation of a basic HTML template that dynamically Processes context passed from a diango view Step 1: 1- Set up the template directory 2- create a simple HTML template 3- modify the view function 4-define a URL Pattern for the view 5-Run the Django server