

## Week-5

Domain: **Django**

### Weekly Activities:

1. Hacker Rank
2. Practice Typing

### Week Technical Workout Schedule:

Day	Topics	Assignments
1	Day 1:  Introduction to Django framework and its features Setting up a Django project and creating a virtual environment Creating a new Django application Understanding the MVC (Model-View-Controller) pattern in Django Creating a simple Django view and rendering a template	
2	Day 2:  Understanding template inheritance and extending templates in Django Working with static files in Django Using Django forms for handling user input Creating dynamic URLs in Django using URL routing Implementing class-based views in Django	
3	Day 3:  Understanding how view engine works in Django Creating and rendering views in Django Implementing CRUD (Create, Read, Update, Delete) operations using views in Django Using Django's built-in generic views for faster development Working with Django templates to display dynamic content	

Day	Topics	Assignments
4	Day 4:  Understanding session and cookie management in Django Setting up and configuring session and cookie settings in Django Implementing session-based authentication in Django Using Django's built-in authentication views for login and logout functionality Creating custom authentication views in Django	
5	Day 5:  Understanding HTTP methods in Django Implementing GET and POST methods in Django views Handling form submissions using POST method in Django Implementing PUT and DELETE methods in Django views for REST APIs Using Django's built-in decorators for handling HTTP methods	
6	Day 6:  Implementing server-side development for login page in Django Validating user input using Django forms and built-in validators Handling login and logout functionality using session management in Django Implementing user authentication using Django's built-in authentication views Creating a home page with a signout button and handling redirection using session management in Django	
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