

Installing Django











Error/ Warning

Information

Flashback

Class Exercise



AGENDA

- 1. Introduction to Web Development Introduction to Tool and Technique
- 2. Introduction to Web Development Development Setup
- 3. Installation of Django for Windows





■ Web development

Web development is the process of creating websites and web applications. It involves coding, designing, and maintaining websites.





Web development

Components

- Frontend: The part of the website users interact with. Technologies include HTML, CSS, and JavaScript.
- Backend: The server-side logic. It handles databases, server configuration, and application logic.
 Technologies include Python, Ruby, PHP, Node.js.
- Database: Where data is stored. Common databases include MySQL, PostgreSQL, SQLite, and MongoDB.



Web development

Tools and Techniques

- Version Control Systems: Git is the most popular VCS, allowing developers to track changes, collaborate, and manage codebases.
- Text Editors/IDEs: Tools like Visual Studio Code, PyCharm, Sublime Text, and Atom are essential for writing and managing code.
- Frameworks: These provide a structured way to build web applications.
 - Frontend Frameworks: React, Angular, Vue.js.
 - Backend Frameworks: Django, Flask, Ruby on Rails.





Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design.

Features

- Admin Interface: A ready-to-use interface for managing application data.
- ORM (Object-Relational Mapping): Allows interaction with databases using Python code instead of SQL.
- Security: Built-in protection against common security threats.
- Scalability: Designed to handle high-traffic applications.





2. Introduction to Web Development - Development Setup

Introduction to web development - development setup





In Python, a virtual environment is an isolated environment that allows you to manage dependencies for a specific project without interfering with other projects or the system-wide Python installation.

Set up a virtual environment

- Open a terminal or command prompt.
- Install the virtualenv package:pip install virtualenv
- Create a virtual environment:

python -m venv ./myenv

Activate the virtual environment

myenv\Scripts\activate



3. Installation of Django for Windows

Installation of Django for windows



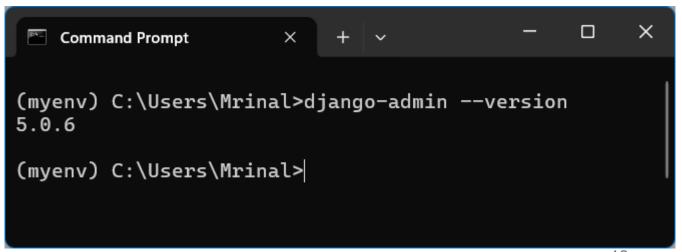
Install Django

- Open command prompt and make sure to activate virtual environment.
- Use pip to install Django:

pip install django

Verify the installation by checking the version:

django-admin --version



Installation of Django for Windows





Create your virtual environment for Python development.



Question?



Thank you