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Top Skills

Cascading Style Sheets (CSS)

HTML

GitHub

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Summary

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. It's built on the principle of DRY (Don't Repeat Yourself), meaning that it aims to reduce repetition of software patterns by emphasizing reusability and pluggability of component

MVC Architecture: Django follows the Model-View-Controller (MVC) architectural pattern, although it refers to its components as models, views, and templates. Models handle data, views handle presentation logic, and templates handle user interface design.

ORM (Object-Relational Mapping): Django provides a powerful ORM that allows developers to interact with the database using Python objects. This abstracts away the complexity of SQL queries and makes database operations more Pythonic and easier to manage.

Admin Interface: Django includes a built-in admin interface that can be easily customized and extended. It provides CRUD (Create, Read, Update, Delete) functionality for managing site content, which can be a huge time-saver during development.

URL Routing: Django uses a URL dispatcher to route incoming HTTP requests to the appropriate view functions based on URL patterns defined in the project's URL configuration.

Template System: Django's template system allows developers to define HTML templates with placeholders for dynamic data. Templates can include template inheritance, template tags, and filters to enhance reusability and flexibility.

Security: Django includes built-in security features such as protection against common web vulnerabilities like SQL injection, cross-site scripting (XSS), cross-site request forgery (CSRF), and clickjacking.

Authentication and Authorization: Django provides robust authentication and authorization mechanisms out of the box. Developers can easily integrate user authentication, permissions, and user management into their applications.

Middleware: Django middleware is a framework of hooks into Django's request/response processing. It's a lightweight, low-level plugin system for globally altering Django's input or output.

Testing: Django supports unit testing and provides a test framework that facilitates writing and running tests for Django applications. This helps ensure the reliability and stability of the application codebase.

Scalability: Django is designed to scale well from small to large-scale web applications. It supports various deployment options, including traditional web hosting, cloud platforms, and containerized environments

Education

JNTU Anantapur

Associate's degree, Mechanical Engineering · (July 2023)