***Django - a popular web framework***

***By Pranathi Kodicherla, BE 2/4 CSE-3***

Whether you have decided to learn trending technologies or learned Python and want to explore the web development domain or explore front-end development and are confused between all the back-end options, Django is the right place to start.

Let’s first understand what exactly is a ***web framework***. It is a code library that makes web development quicker and easier by giving basic patterns for building reliable, scalable, and maintainable web applications. Think of it as a way to create shortcuts that can prevent otherwise overwhelming and repetitive code.

For example, you may have written some code from scratch to save data in a database for your web application. Instead of rewriting that code from scratch each time you make a website or web service, you can use existing features in a web framework.

A few of the most popular and successful web frameworks include Django, Express, Ruby on Rails.

Django offers some powerful advantages as listed below:

* ***Python-Based*** — Python is one of the easiest and most popular programming languages out there supporting coming-of-age technologies like ML and AI.
* ***Developer-friendly Documentation*** — Django has been best at documentation from the beginning, from the point it became open source in 2005 till date. It is like a very well-established library for developers constantly updated by the active community.
* ***Rapid development*** — You will not need expert-level knowledge to make a fully functional website. You will also not need to create separate server files to design and connect the database or create an admin panel for handling the back-end. Django takes care of many such tasks.
* ***SEO and security*** — Using Search Engine Optimization(SEO), you can add your website to the search engine such that it appears in the top results. Django also covers the security loopholes by default which are generally left open for the back-end developers to complete.
* ***ORM* —** Django ORM provides an elegant and powerful way to interact with the database. ORM stands for Object Relational Mapper. It is just a fancy word describing how to access the data stored in the database in an Object-Oriented fashion.

These advantages make Django a powerful framework that is user-friendly and is now gaining popularity as one of the best web frameworks.