Frameworks

When working on building new applications, sometimes, work gets complex. Eventually, it gets to the point where just having libraries are not enough. What is needed is structure, and order in the chaos of code. That is where Frameworks come into play.

What is a Framework?

A web framework is like the support beams of a house. It provides a structure or template of resources, services, and APIs to alleviate the overhead associated with web development.

Why are web frameworks important?

Frameworks act as a foundation to build your code up on, and can establish a sense of order when code in an application seems to not have any order at all. Frameworks can be highly customizable to the framework developer's preference, and for the user of the framework being able to add the useful methodology of libraries integrated into the framework's structure, or automatically executing code blocks when needed by calling MVC data. To cut things short, frameworks are needed when code for an application or program seems to have zero structure and rough functionality, because as frameworks, they mandate how your code is structured and how it will run.

Choosing the right framework upfront is critical as a huge amount of effort is required to switch later. There are a lot of factors to consider such as ease of use, security, efficiency, and maintainability. An active and popular framework is important as this gives developers more tools, community, and resources to leverage during development. This also means that patches should come out regularly to resolve bugs and security vulnerabilities. Also keep in mind to look at implementation best practices around the framework to ensure future maintainability and easier upgrades.

What's React?

React is (JavaScript library) a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications