

Lesson:

What is Full Stack Development and Why it is important ?



Topics Covered

1. What is web development?
2. Importance of web development
3. Frontend vs Backend vs Fullstack

What is Web Development ?

Web development refers to the creation, building and maintenance of a website. Web development is made up of two words web and development, in which web means the webpage or website and development refers to the building of the application from scratch.



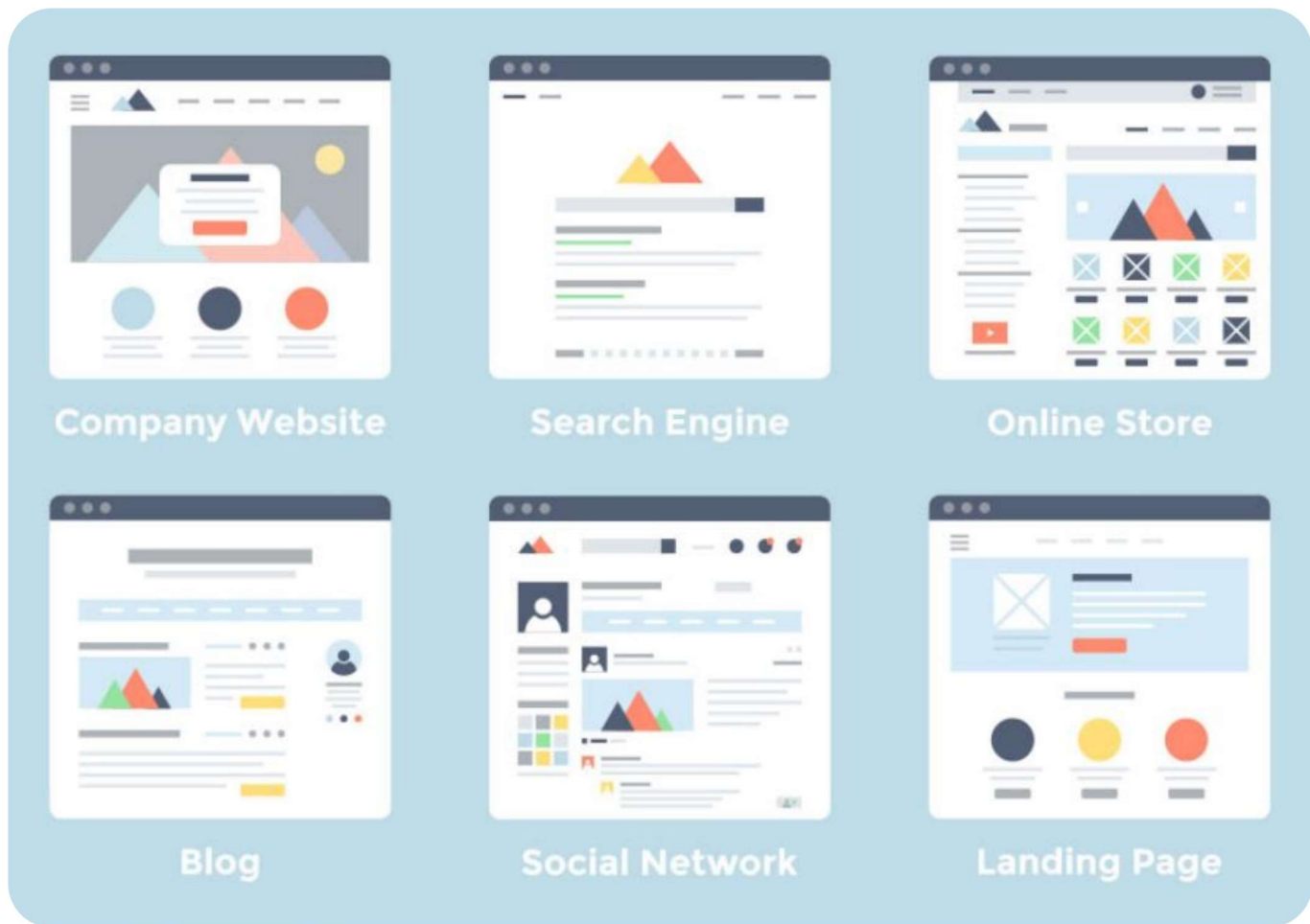
Web development can be classified into two main parts

1. Frontend Development
2. Backend Development

Importance of web development

- **Global Platform:** Websites provide a global platform to share information, ideas, products, and services with a worldwide audience.
- **Business Growth:** Web development is crucial for businesses to establish an online presence, attract customers, and expand their reach.
- **Accessibility:** It ensures that information and services are accessible to people across different devices and platforms.
- **User Experience:** Effective web development creates user-friendly interfaces, enhancing the overall experience for visitors.

- **E-commerce:** Enables online shopping and transactions, supporting the growth of the e-commerce industry.
- **Startups:** Supports the growth of startups by providing a cost-effective platform to launch and promote new ideas.



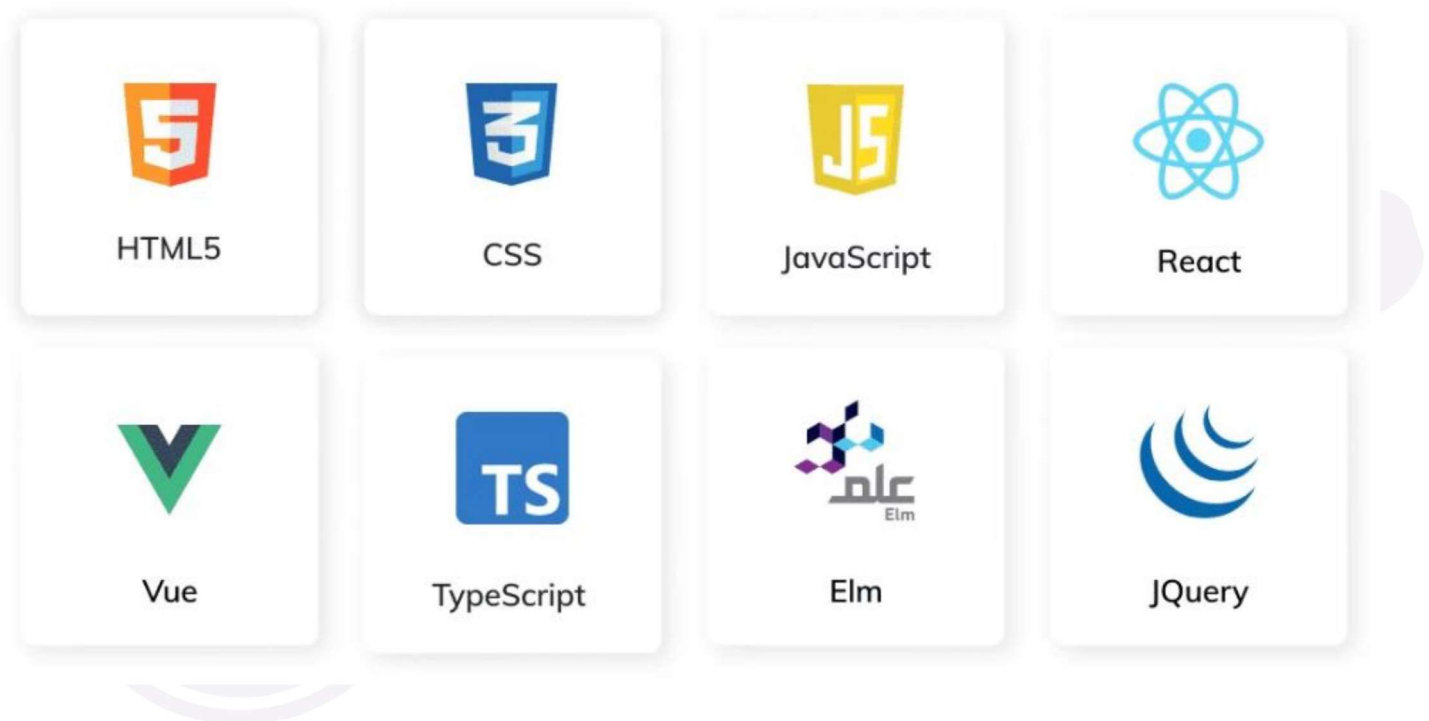
Frontend vs Backend vs Fullstack

Frontend Development

- It is the part of the website which is directly visible to the user to which he can interact with. It is also known as the client side of the application as it is visible to the user.

Popular Frontend Technologies

- **HTML:** HTML is used to create the structure of a webpage.
- **CSS:** CSS is used to design the webpage to make the website presentable.
- **JavaScript:** JavaScript is used to provide interactivity to the website, so that the website can have some dynamic behaviour.
- **JavaScript Libraries & Frameworks:** JavaScript libraries and frameworks provide pre-built tools and structures to streamline the development process, enhance functionality, and improve code organization, ultimately saving time and ensuring a more efficient and maintainable web application.



Backend Development

It is the part of the website which is not visible to the user and he cannot interact with it. It is the server side of the website which is used to process, store and arrange the data.

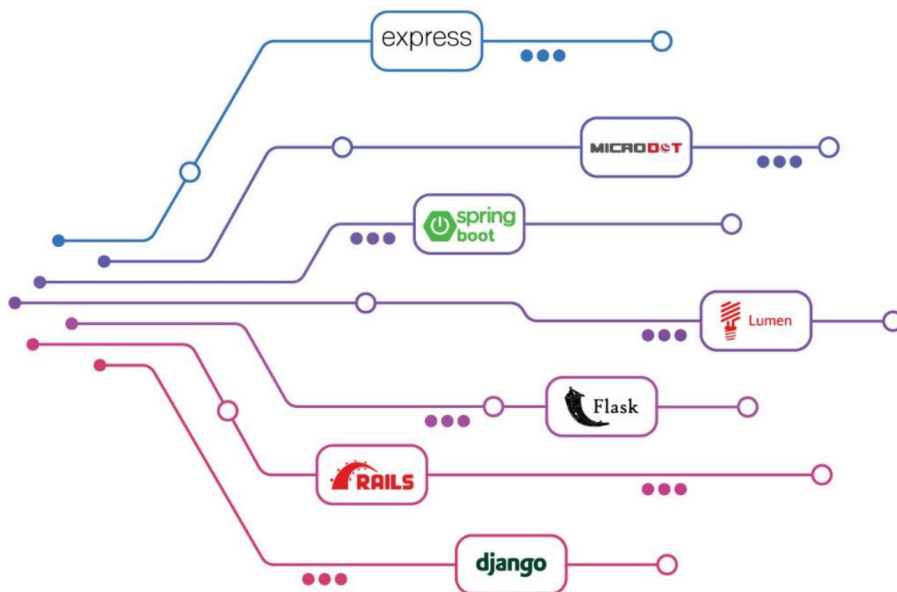
Popular Backend Technologies

1. Node JS

It is an open source and cross-platform javascript runtime environment used to execute the javascript code outside the browser.

- **MongoDB:** It is an open source document-oriented database that is used to store a large scale of data and allows us to work with the data efficiently.

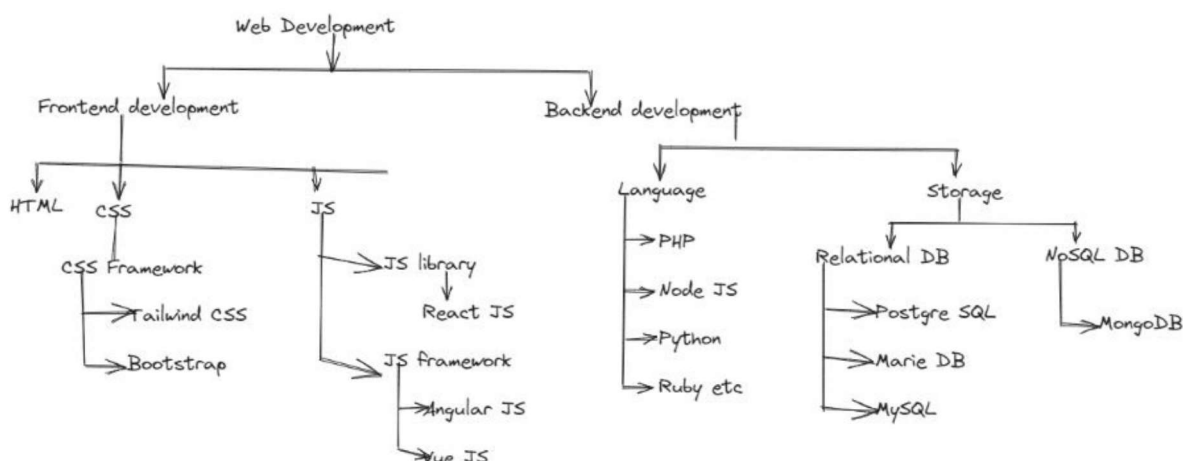
Note: We can also use Python, Java and PHP like programming languages to work on our backend.



Full Stack Development

- Full stack development refers to the ability to work on both the frontend and backend side of a web application. A full stack developer has the knowledge of both the frontend and backend technologies, which means they can develop an application from scratch to till completion by themselves.

Technologies to learn in full stack development





**THANK
YOU !**