



Web Development

Description: Web Development is an important branch of software development, which helps construct many important applications in everyday life, such as amazon, and etc. This course will cover the basics and essentials to web development.

Teaching - What is Web Development?

- Web development is the work involved in developing a web site on the internet. Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services.

Teaching - Frontend Development

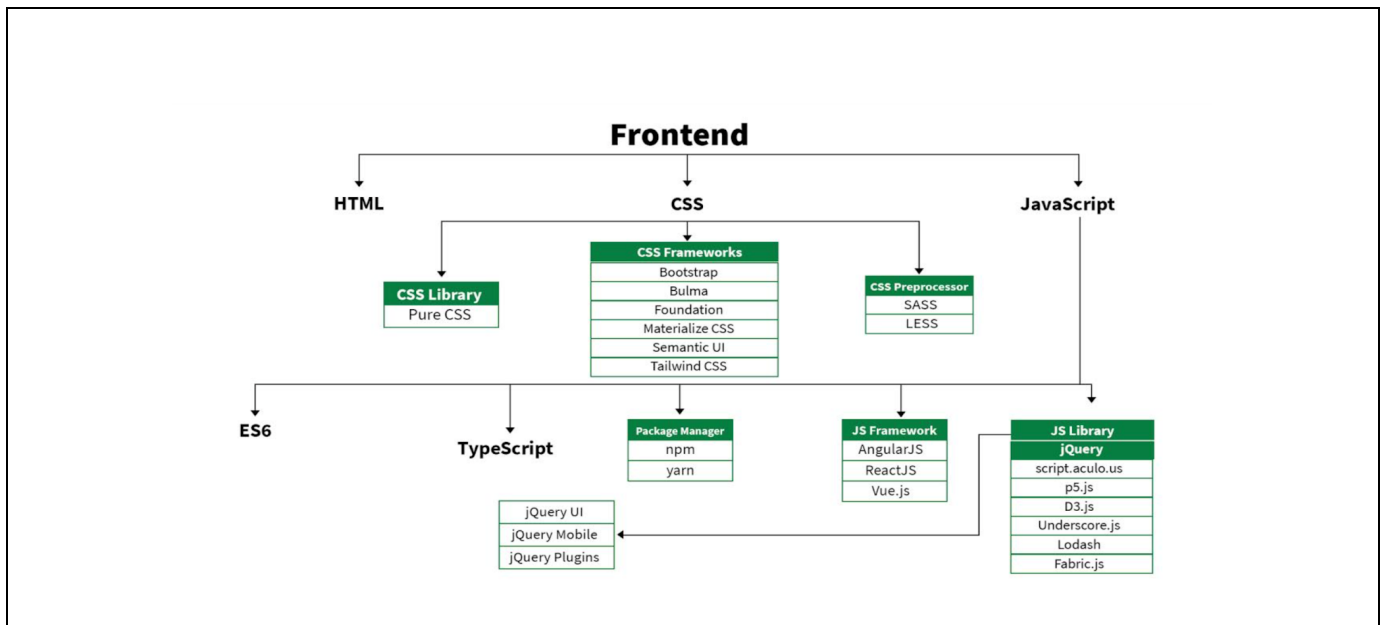
- Frontend Development- The part of a website that the user interacts directly is termed as front end. It is also referred to as the “client side” of the application
 - HTML: HTML stands for HyperText Markup Language. It is used to design the front end portion of web pages using markup language. It acts as a skeleton for a website since it is used to make the structure of a website.
 - CSS: Cascading Style Sheets fondly referred to as CSS is a simply designed language intended to simplify the process of making web pages presentable. It is used to style our website.
 - JavaScript: JavaScript is a scripting language used to provide a dynamic behavior to our website.
 - Bootstrap: Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular CSS framework for developing responsive, mobile-first websites. Nowadays, the websites are perfect for all the browsers (IE, Firefox, and Chrome) and for all sizes of screens (Desktop, Tablets, Phablets, and Phones).

Teaching - Frontend Frameworks and Libraries:

- AngularJS
 - Develop single-page applications
- React.js



- Build user interfaces
- VueJS
 - Create dynamic applications
- jQuery
 - Simplify HTML document transversal
- Bootstrap
 - Simplify development of informative web pages
- Material UI
 - Create user interface applications
- Tailwind CSS
 - Build custom designs
- jQuery UI
 - Build user interfaces, widgets, themes, etc.

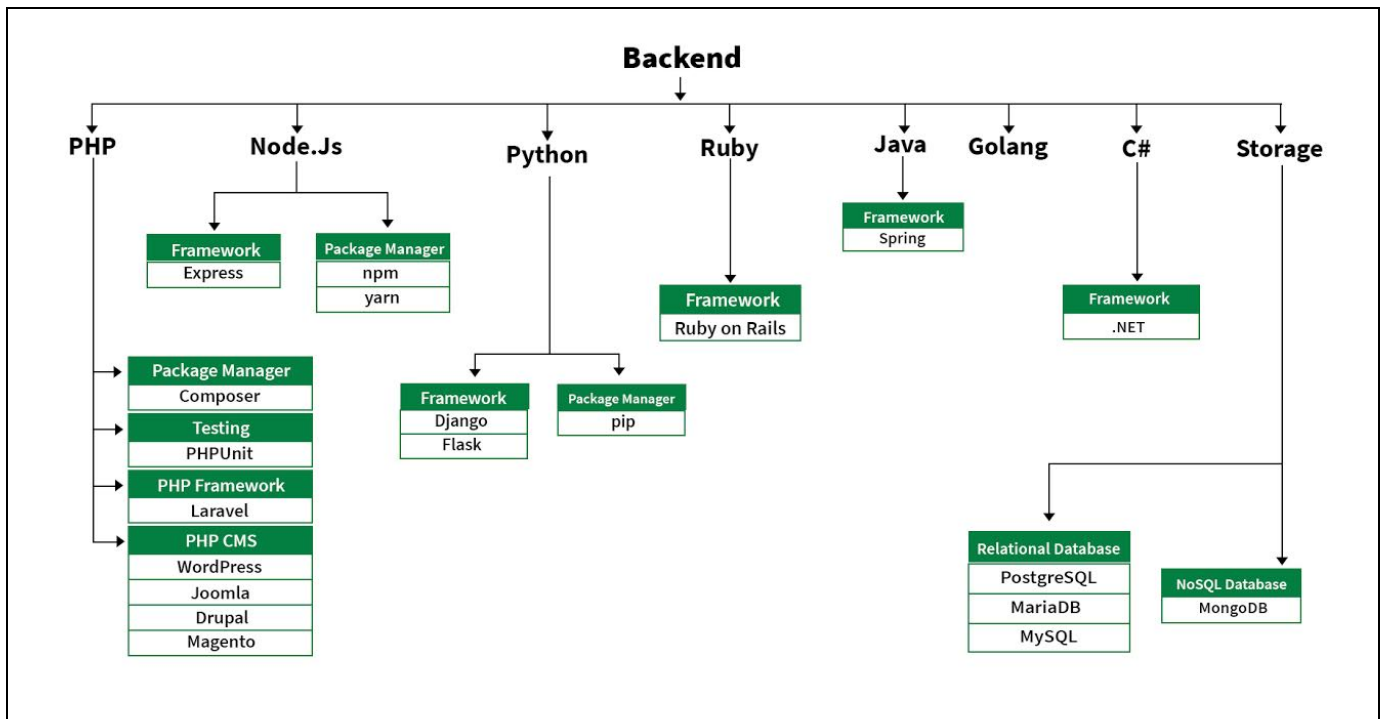


Teaching- Backend Development

- Backend is the server side of a website. It is the part of the website that users cannot see and interact with. It is the portion of software that does not come in direct contact with the users. It is used to store and arrange data.



- PHP: PHP is a server-side scripting language designed specifically for web development.
- Java: Java is one of the most popular and widely used programming languages. It is highly scalable.
- Python: Python is a programming language that lets you work quickly and integrate systems more efficiently.
- Node.js: Node.js is an open source and cross-platform runtime environment for executing JavaScript code outside a browser.
- Back End Movements: The list of back end frameworks are: Express, Django, Rails, Laravel, Spring, etc.



Teaching- Web Development with HTML

- Basic Format for simple web page:



```
<!DOCTYPE html>
<html>

<head>
  <!-- Head section of website-->
  <title></title>
</head>

<body>
  <!-- Body section of website -->
</body>

</html>
```



- Ex:

```
<!DOCTYPE html>
<html>

<head>
  <title>Simple HTML Page</title>
</head>

<body>
  <h1>Welcome to GeeksforGeeks</h1>

  <p>A computer science portal for geeks</p>
</body>
</html>
```