

NEOTECH INSTITUTE OF TECHNOLOGY

Neotech campus

BACHELOR OF DIPLOMA
ENGINEERING IN

1 SEMESTER COMPUTER
ENGINEERING
SUBMITTED BY

1. VEER PATEL
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SUBJECT:FUNDAMENTAL OF
COMPUTER APPLICATION

TOPIC : WEB DEVELOPMENT

AFFILATED TO GUJARAT
TECHNOLOGICAL UNIVERSITY



NEOTECH TECHNICAL CAMPUS

WEB DEVELOPMENT



- **Web development** is the work involved in developing a website for the Internet (World Wide Web) .
- Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services.
- There are three kinds of Web developer specialization: front-end developer, back-end developer, and full-stack developer.



Steps of web development



➤ There are basically seven steps of web development.

- 1) Information Gathering
- 2) Planning
- 3) Design
- 4) Content Writing and Assembly
- 5) Coding
- 6) Testing, Review and Launch
- 7) Maintenance



- Maintenance is done by Check that all of your pages are loading without errors.
- Check the load speed of your website and ensure that nothing is bogging it down.

IDEs for web development



➤ An **integrated development environment (IDE)** is software for building web sites and web application.

➤ This are the some IDEs

- Visual Studio code by Microsoft
- Atom by github.
- Netbeans
- PhpStorm

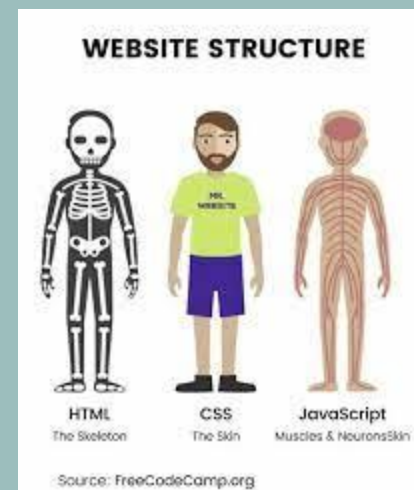


➤ With the help of this we can make responsive websites and it becomes easy to code.

Front-end development



- Front-end development basically include HTML , CSS , JavaScript .
- In simple words HTML is like a skeleton , CSS is like skin and JAVASCRIPT is like the brain of human.



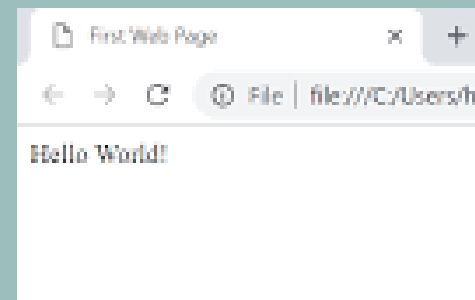
HTML



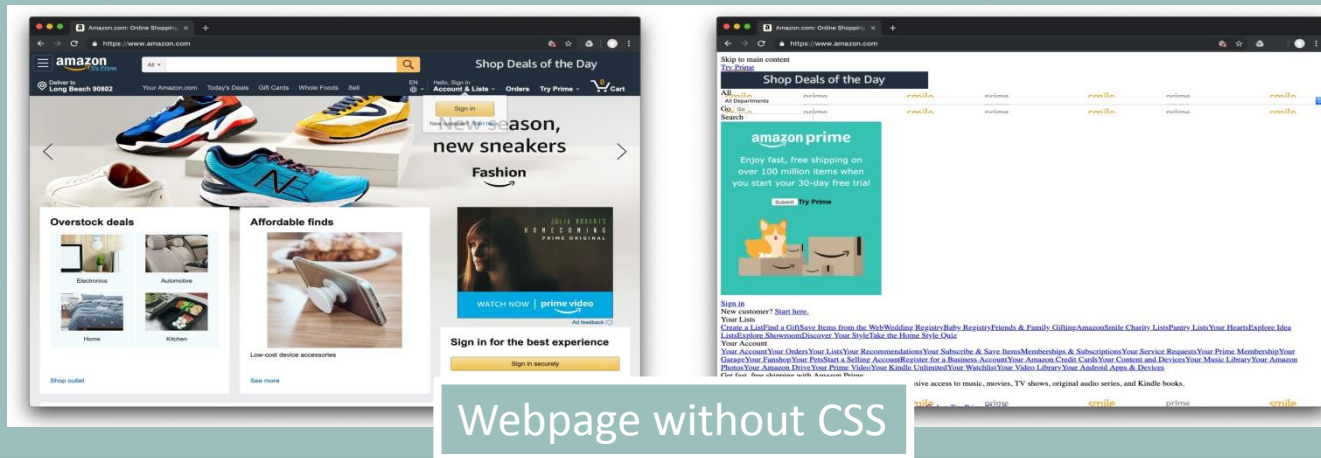
- The **HyperText Markup Language**, or **HTML** is the standard markup language for documents designed to be displayed in a web browser.
- Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages
- HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items.



```
<html>
<header><title>This is title</title></header>
<body>
Hello world
</body>
</html>
```



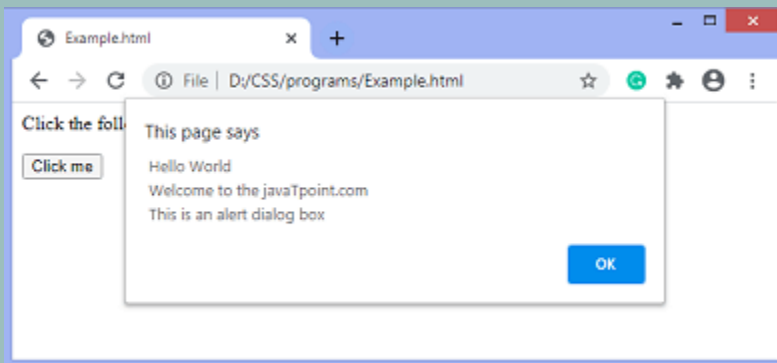
- **Cascading Style Sheets (CSS)** is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. Basically use to design website
- CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.
- CSS also has rules for alternate formatting if the content is accessed on a mobile device.



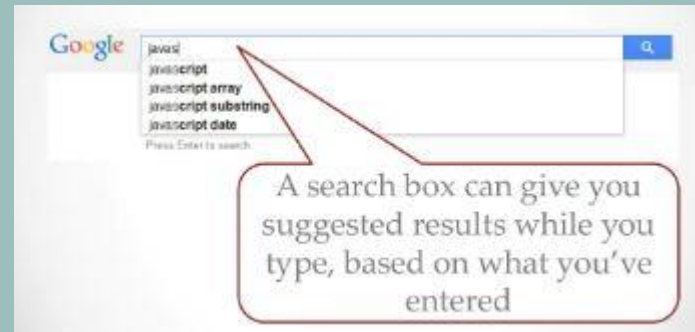
JavaScript



- **JavaScript** is high-level, often just-in-time compiled and multi-paradigm. It has dynamic typing, prototype-based object-orientation and first-class functions.
- It allows us to add dynamic behavior to the webpage and add special effects to the webpage.
- Using JavaScript, it is also possible to load the content in a document without reloading the webpage.

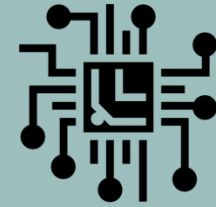


Javascript Alert function Example

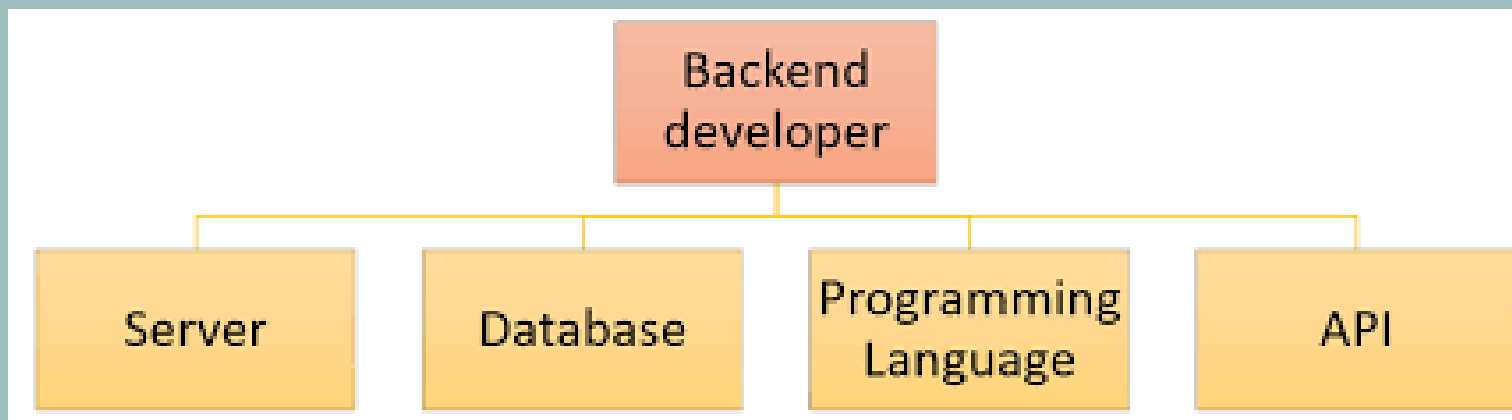


Example of JS

Back end development



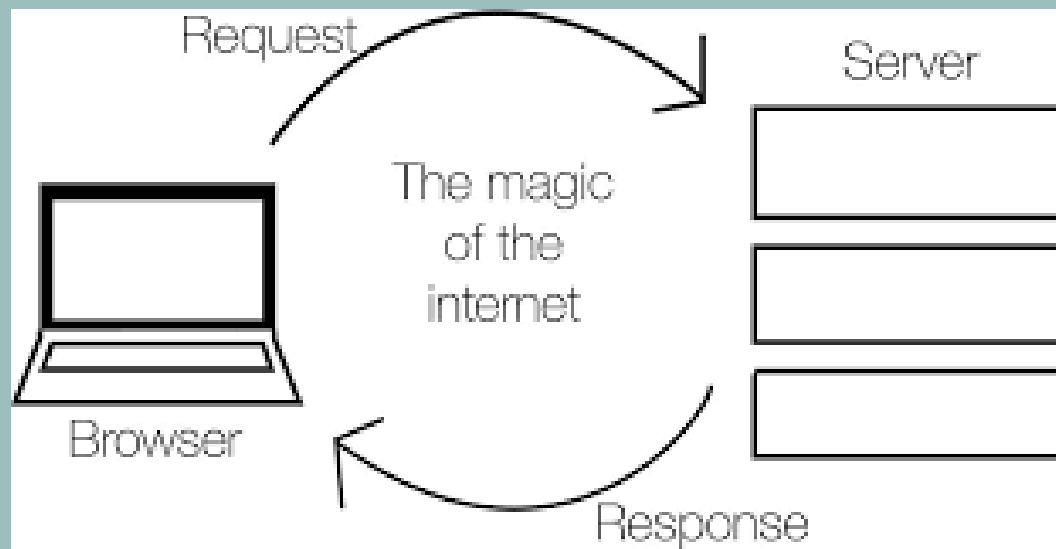
- Backend Development is also known as **server-side development**. It is everything that the users don't see and contains behind-the-scenes activities that occur when performing any action on a website.
- Back-end programming language include python , PHP , java , c#
- It focuses primarily on databases, backend logic, APIs(Application programming interface), and Servers.



How front-end and back-end work together



- A browser connects to a server.
- That server sends the front-end to the browser.
- From there, the front-end explains how the browser should communicate with the server.



Web hosting



- A **web hosting service** is a type of Internet hosting service that hosts websites for clients, i.e. it offers the facilities required for them to create and maintain a site and makes it accessible on the World Wide Web.
- Domain Name System configuration to define name(s) for the sites and point them to the hosting servers.

