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FSD-C-WE-T-B23

Full Stack Development

Day - 1

Topics Covered

- ✓ What is Full Stack Development?
- ✓ What is Frontend, Backend & Databases?
- ✓ Introduction to web Browser JavaScript V8 ✓ Evolution of HTTP,HTTP Methods -- Evolution of HTTP pending ✓ How the Server looks at the URL
- Request & Response cycle
- Browser js vs Node js

What is Full Stack Development?

Full Stack Development is an end-to-end development of a web application.

 end-to-end means from the Frontend to the Backend and the Database [Components of a web application]

What is Frontend, Backend & Databases?

- Frontend: The part of the web application that the user interacts with. It is the User Interface(UI) of the web application.
- Backend: This is where the processing of the web application happens.
 - It has the following components:
 - Server: Listens to the incoming requests and sends the response.
 - Application: The logic of the web application + API (Application Programming Interface).
 - Database: The storage of the web application.
- API
 - Application Programming Interface
 - It is a set of rules that allows one software application to talk to another software application.
- Restful API
 - Representational State Transfer
 - It is an architectural style that defines a set of constraints and properties based on HTTP.
- HTTP
 - HyperText Transfer Protocol
 - It is an application layer protocol that is used to transfer data over the web.

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HTTP Methods

- GET: To get the data from the server.
- o POST: To create the data on the server.
- PUT: To update the data on the server.
- o PATCH: To partially update the data on the server.
- o DELETE: To delete the data on the server.
- How the Server looks at the URL
 - The server looks at the URL in the following way:
 - Protocol: http://
 - Domain: www.google.com
 - Port: :80
- Request & Response cycle
 - Request: The client sends a request to the server.
 - Response: The server sends a response to the client.
- JavaScript
 - JavaScript is a programming language that is used to make the web pages interactive.
 - Language of the web.
- Browser js vs Node js
 - Browser js: JavaScript that runs in the browser.
 - Node js: JavaScript that runs on the server.