Full Stack Development

1. What is Full Stack Development?

➢ Full Stack Development Entails designing, constructing, and maintaining front-end (client side) and the back end (server side) of a Web based application as well as databases.

➢ A Full Stack Developer is a developer who can do all the layers in a web project-designing the UI, to writing server logic and working with databases.

2. Layers of Full Stack Development:

a. Front-End (Client Side)
- The interface that the customer utilizes and receives.
- The assistance of HTML (structure), CSS (style), JavaScript (interactivity) helped to develop it.
- Frameworks / library Angular, React Vue.js.

b. Back-End (Server Slide)
- Controls data processing, trade logics, and the connections that the client and the database have.
- Node.js, PHP, Python, Java, and Ruby are among the languages.
- Front end application: application back end: django,spring,express.

c. Database Layer
- Memories/remembers.
- NoSQL (MongoDb, firebase) and Sql (MySql, PostgreSQL)

3. How it works together:

➢ Front-end receives requests to back-end → back-end works and communicates using database → passes information to front-end.
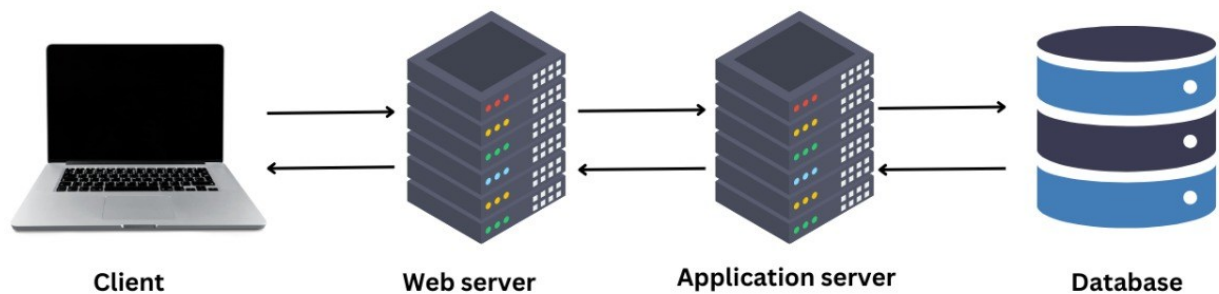
4.Full Stack Development advantages.

- Flexibility- Because the full stack developer can operate in the client-side as well as in the server-side, it increases the independence of the different specialists.
- Better Problem-Solving – A improved understanding of the general system would result in a better process of solving problems.
- Cost-Effective One developer (or a small group of people) can take on many roles and help to save money on a project.
- Faster Development: The Back-end development feature means that time under development can be alternated, and the project timeline is therefore accelerated.
- Better Communication -There is no information left on the blinded when each layer is filled in by one person so there are fewer misunderstandings between teams.
- Improved Career Opportunities- Full stack skills are highly required, and this means increased opportunity at work.

- The increased Control of the Project: A developer is able to view the entire picture and can make decisions which would positively affect the entire system.
- Agility Technology wise – Full stack developers are flexible on what technology to use, which framework, which database, and even programming language to use depending on the requirements of the project.

5.Full Stack Workflow:

Workflow

Client   Web server   Application server   Database

Name: Sajjan Bhandari