Industrial Visit Day-1 Report

What is FSD?

FSD stands for Full Stack Development.

Full Stack Development is the end-to-end development of applications/websites.

It includes both front-end and back-end development of an application.

Front-end development:

* Front-end is nothing the visual part of the application that the user is able to see and interact with.
* Front-end development refers to the development of the User Interface (UI) of an application.

Major technologies used for front-end development are as follows;

* HTML
* CSS
* JavaScript
* React JS
* Bootstrap
* Angular
* jQuery

Back-end development:

* Back-end development refers to the development of server-side logic that powers websites and apps from behind the scenes.
* It includes all the code needed to build out the database, server, and application.

Major technologies used for back-end development are as follows;

* Java
* Python
* PHP
* C#
* C++
* Django
* Spring boot

What is HTML?

* HTML stands for Hyper Text Markup Language
* It is used to create webpages and websites(collection of webpages).
* HTML is the standard markup language for creating Web pages
* HTML describes the structure of a Web page
* HTML consists of a series of elements
* HTML elements tell the browser how to display the content.

What is CSS?

* CSS stands for Cascading Style Sheet.
* CSS describes how HTML elements are to be displayed on screen, paper, or in other media
* CSS saves a lot of work. It can control the layout of multiple web pages all at once
* External stylesheets are stored in CSS files

What is JavaScript?

* JavaScript is a scripting language or Programming language for the web.
* It is used to create dynamic webpages.
* It is used to change HTML and CSS content when an action is done.
* It is used to validate data on client-side itself.

Major Roles and Responsibilities in software development activities:

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| Roles | Responsibilities |
| System Analyst | * Collects the actual requirements of a client. * Defines the collected requirements clearly. * Prepares the Software Requirement Specification document. |
| Chief Architect | * Analyses the requirements of the client and which technologies allows to develop an application with the specified requirements. * Decides which front-end and back-end technologies must be used to develop the application based on the nature of the application. |
| Developers | * The application’s requirements will be divided into several modules. * Develops the each module as per the requirements in SRS by using the suggested technology by the chief architect. |
| Test Designer | * Creates the test suites(test cases and data sets) for each modules against the requirements specified in SRS. * While the development team starts developing the modules, the test designer starts writing test plan and test suites. |
| Test Engineers | * Tests each developed module as per the test suites(test cases and data sets) created by test designer. |

Criteria to be considered while choosing the technology for development:

* Simple to write and implement
* Easy to debug
* Rich libraries
* Open-source
* Features
* Easy maintenance