

## Assignment - I

Q1) What is difference between Website & Webapplication?

Ans- Website

- 1) It is a collection of interlinked web pages accessible through the internet using a browser.
- 2) It focuses on displaying content, such as text, images & videos.
- 3) Authentication is not necessary in website.
- 4) It is less complex as it focuses on delivering content to users.
- 5) Typically uses HTML, CSS & Javascript for static content.  
eg) A news website like BBC, restaurant's web page.

Webapplication

- 1) It is an interactive system that performs a specific function or service for the user.
- 2) It provides complex functionalities & services that require user input & interaction.
- 3) Authentication is necessary.
- 4) It is more complex, providing rich user experiences & functionalities.
- 5) It utilizes more complex frameworks & technologies like React, Angular, Vue.js, etc.  
eg) An online banking platform like PayPal., social media sites like Facebook.

Q2) What is Full Stack?

- Ans. → A full stack covers the entire technology stack required to build a complete web application.
- A full stack developer is a software engineer who is proficient in both front-end & back-end.
  - A full stack involves designing & managing data storage solutions, both SQL & NoSQL.
  - It includes managing version control & deployment processes to servers or cloud platforms.
  - Bridges front-end & backend components, ensuring seamless communication & functionality.
  - In front-end developers use technologies like HTML, CSS, Javascript & at back-end → Node.js, Python, Java is used
  - It provides versatility, cost effectiveness, faster development & better problem solving.

Q3) What is SEO ?

Ans) It ~~sta~~ stands for Search Engine Optimization.

- SEO is the process of improving a website visibility on search engines.
- It includes keywords which users usually use for searching.
- It creates high quality, relevant content to attract visitors.
- It is used for building links from other reputable website to boost authority.
- It ensures the site has a logical structure, making it easier for search engines to crawl & index.
- It enhances user experience on different devices.
- Optimizes page loading speed for improved rankings.
- Uses secure protocols like SSL / HTTPS to build trust with users & increase ranking.
- It writes concise summaries for pages that include target keywords to improve visibility & CTR.

Q4) What is Framework?

Ans) A framework is a pre-structured collection of s/w libraries & tools that provide a foundation for developing applications, offering reusable code to streamline development processes.

- It has a pre-built structure & provides standardized way to build & organise applications.
- It offers reusable code components, reducing development time.
- It enforces uniform coding practices across projects.
- Speeds up development by handling common tasks.
- Supports scalability & produces fast & maintainable applications.

D5) Difference b/w +

### Programming

- 1) It builds standalone applications.
- 2) Compiled Languages like C++, Java are there.
- 3) It requires compilation.
- 4) Used for large scale software.
- 5) Creates Binary files

e.g) C++, Java

### Scripting

- 1) Automates tasks within existing application.
- 2) Interpreted languages used like Python, Javascript.
- 3) Executed directly by an interpreter
- 4) Used for small tasks or web application.
- 5) Does not create binary files.

e.g) Bash, Javascript.  
Ruby, Python

~~xxx End.~~