

Course Name: **O Level (1<sup>st</sup>Sem)**  
Topic: **Front End and Back End**

Subject **Web Designing & Publishing (WDP)**  
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## Front End and Back End

### **Front End**

Front end refers to client side design of website. Front end is involved with what the users see and interact with the website i.e. the User Interface (UI) which includes the design, layout, navigation menu, text, images, videos, image gallery etc.

The languages used for front end designing and development of the website include

- **HTML** – It is fundamental language for creating and organizing web contents.
- **CSS** – It defines the style and layout of the website contents.
- **JavaScript** – It is used for more interactive elements, handling events and to set the behavior of the webpage.

Apart from above, here are some most popular front end framework and libraries:

- **JQuery** (Library of JavaScript)
- **Angular JS** (Library of JavaScript)
- **W3.CSS** (CSS Framework)
- **Bootstrap** (CSS and JavaScript Framework)

**Static websites** are designed using only front end tools. Static website is something which has fixed content documents and remains same every time when user accesses the website. Static website is informative website. It does not require any information to be stored in the database

### **Back End**

Back end refers to server side development of website. It is involved with what the user cannot see in the browser like database and server. It concerns with security aspects, data storage and manipulation, content management, user authentication etc.

The languages used for back end development of the website include

- Python
- PHP
- Java
- Ruby

Popular framework for back end:

- Express
- Django
- Node.js

**Dynamic websites** are created using front end and back end tools. Dynamic website is something whose contents changes dynamically on the basis of user request. The examples of dynamic website include facebook, twitter etc. The contents of these website changes as per the user input. The contents of the website like posts, comments, photos etc are stored in the database. The facebook page differs from one user to another user.

In dynamic website, when user makes request for web page, it is processed at server side and dynamically the web page is created in real time and displayed on the browser.

A **script** or **scripting language** is a programming language with a series of commands within a file that is capable of being executed without being compiled, it is often interpreted. It automates the execution of tasks.

The examples of **server-side scripting languages** include Perl, PHP, ASP and Python. The best example of a **client side scripting language** is JavaScript.

### Exercise:

1. What are difference between Static and Dynamic website?

