23/04/2

Web Technology

Editors. They are classified into two.

a. Basic Editors
b. Advanced Editors

- By using basic editors, we can code but we cannot the integrate the technologies.
- By using advanced editors, We can code as well as we con integrate the technologies.
- Example for -Basic editors.

Edit plus, Note pad

b.Examples- for advanced editors ->

Ellipse IDE (Integrated Development Environment)

1. Notepad++
2. "IntelliJ
3. Net Beans
4. Visual Code

iii) for web development, we use specific editor known as Visual studio code.

2) Applications-

- Application is also known as software or tool.
- An Application contains set of programms which will perform it's Specific task
- Applications are classified into four types. as

a) StandAlone Application

b) Mobile Application

distributed Application

d) Web Application

2a) Stand Alone application-

- This application will never depend on any other application.
- The codes have been return with in the application it self in other works the codes are build-in with in the application.
- To develop standAlone application, we use Java technology

Eg

Example -

- **Notepad**

- **paint.**
- **Calculator**

2b) Mobile Application-

- These Applications are specially designed for running.
- Mobile Applications depends on internet as well as external resource (play store or App store).
- To develop this application we use java & Flutter technology .

Example-

- **Facebook**
- **WhatsApp**

2c) Distributed Application-

- These applications will be interconnected with some other application.
- By using one application we can access some other application because of the internal interconnection.
- To develop distributed application, we go for cloud Technology.

Example-

- **Using Gmail account we can access drive, play store, G-pay.**
- **By using amazon account we can access Prime, Music, Kindle.**

2d) Web Application-

- These applications are stored inside the servers.
- Web applications depends on internet & then web browsers.
- To develop applications, we go for Web Technology.

COMPONENTS OF WEB APPLICATION---

Web application has two components.

i) Front-end.
ii) Back-end.

1) Front-end-

- The component which are visible to the end users is know front end of Web application.
- To develop this front-end we use web technologies such as.

i. HTML
ii. CSS
iii. JavaScript.

2) Back-end-

- The components which are hidden to the end user, are known as backend of web applications.

- To develop backend, we use.
    i. Java (or) Python.
    ii. SQL.

➢ TYPES OF WEBAPPLICATION-

- Web application has two types.

i) Static Web application.
ii) Dynamic Web application.

i) Static Web application-

- Those applications will not have server site changes for every user server will be display same information.
- Static Web application is also known as Single Web page application.

Example-- Wikipedia.

ii) Dynamic Web application-

- Those application will have server type changes.
- For every user server will display different based on the user request.

Example- YouTube, Instagram.

3)Web Technologies-

To built frontend of an web application, we can go for web Technologies such as.

HTML, CSS, JavaScript.

3a) HTML – Hyper Text Markup Language.

- By using html, we can provide the hyperlinks to the text by using this we can link one webpage to another webpage. So that we call it as Hyper Text.
- By using html, we will Markup the webpage by using Predefined tags so that we call it as Markup.

Purpose of HTML-

HTML is used for building the structure of the webpage.

TYPES OF HTML TAGS-

- We have two types of html tags, which can be paired & unpaired.
- When we use paired tags developer have to open & developer have to close.

SYNTAX- **<tagname>**content or element**</tagname>**

- When we use unpaired tags, developer will only open, developer no need to close.
  SYNTAX- <tagname>

NOTE- Unpaired tags are also known as Self Closing tag.

Basic Structure of HTML programs-

- Technical it is also known as boiler plate.
- We use some important tags inside Boiler Plate they are listed below.

```
<!DOCTYPE html>
<html>

<head>

    <title>Boiler Plate</title>
</head>

<body>
    First Web Page
</body>

</html>
```

!DOCTYPE- This tag represent the current html file is belonging to html5 version.

```
<html>
```

- This tag represents the starting of the html program.
- This is the root tag present in the basic structure.

<title>

This tag is responsible for the providing the tab name.

</title>- This tag is representing the ending of tab name giving.

```
</head>
```

This tag representing the ending of the header part of the program.

```
<body>
```

- This tag represents the stacking of the body part of the program.
- Whenever we want to display anything to user on the webpage, provide everything inside. Body tag.

```
</body>
```

This tag represents the ending of the program.

```
</html>
```

This tag represents the ending of the html program.