: G.Mithish Reg No. 19BCS 0012 Course Open Source Programming CSCLOOL 3/7/2022

Recent Web development in terms of languages. Francourts, architecture etc.

### Web development:

- · Y Wheb development is the work involved in developing a website for the internet or an Intranet.
- et voled development can trange from developing a simple single static page of plain text to complex web applications, electronic businesses & social network services.

Languages:

Due to a combination of requirements,

Popularity & historical accident, restain

Programming languages have become especially

associated with web development, rather

than with desktop applications.

Such programming languages Jollinto two brown contegories.

- or client-side Languages!
- Jeswer-87 de Languages.

### Client-Side Languages:

· Files written in cilent-side languages one sent directly to web trousers, which interpret the diles & display the content. to end-User of a website:

## Berver-Side languager:

· Server side tanguages ou programming languages that our used to build use applications that sur on the server

# Client-Side Languages:

If we are doing anytype of client-side, work, you wed a front-and doublopment work, you will likely be wing the following language.

·> HTML - Hyper. Text Montrup Language

was problemation to about a formers to

· Caferral Charle - bill . with the

- y css lascading style sheet
- ·> Js Jawa Seript.

## HTMLA Hyper. Text Markup Language. or hebsite pages & documents au written in HTML, which consists of bose Contest Combined with inter-linear tough that Proviets semantic information rational the content other enclose. CSS -> Cascading Style sheed. of Css provider la set of détailed intruction to the browser for a printer) about how the Content of an HTML document should be displayed. Css include details lik Jont declarations, Dizing, Lolor, propage Marenests, and logring Precedence Js- Jana Seript: et. · y Jouascript is a scripting language that can be used, to provide sich web interaction in side a browser. 19 is event-driven, responding to actions

taken by the user (such as elicking, mousing,

hovering a typing).

· Y Jawa Saripts house full access. to the document structure of their associated Jerver - Side bonguages: 16 Almost any Programming Language (CH, Objective-c, etc) can be used to build server-side applications, but a handfull of specific languages have. Come to be respecially popular for doing to some rejthem were idesigned for Web! (PHP, Asp). while others, began as. general-purpose languages that have been extended with a set of Standard: Zed toots for doing wed developmentississe p. 2: 19:10 Java: Divos of PHP: reserved of of opion, anitorial · Peal Python . Muly ... Asp

### JAVA:-

it Java is a general-purpose object-oriented language med for deskitop, Web, enhedded applications on a wide voucety of pladform.

or It has been wed as a client-side Beripting language, but this requirer a browser plugin soit is no longer common.

.) Php - Hypertent preprocessor-isthe most popular sevver-side scripting language in the world.

or PHP is behind the most popular Content management jystom like Word Press, Drupal, Joomla & Mediawili.

or Perlissa high-level programming languagen that seasier to learn with Python.

Programming languages. general-Purpose, Intempreted, obynamic Programy languages. Python: - moils and in the Yython is a popular general-purpose Object-oriented programming language that is excellent for Shell scripting & popular. for 19thers uses among the type of People. who really get into shell scripting. Ruby:-·) Ruby is an interpreted. high-level, genual-Purpose pragramming language which supports multiple programming. Praradigms. or It was designed with an emphasis on programming productivity and simplicity.

### Asplanguage:

- to cook dynamic web Pouges, with Sovices & applications.
- Active server pages.

### WED APPLICATION ARCHITECTURE

- · The web Application architecture describes the interaction between Applications, dastabase and midalleman systems on the web:
- book simultaneously. Let us understant with a simple example of opening a webpages.
- not only deal with efficiency but ralso with reliability. Scalability
  Security. & robustness.

## Types of Meb Application Architecture: -.

A web application architecture in a Pattern of interaction between various web application components. The type of web application burchitecture depends on how the application loyic is distributed among the client & some, Sides.

There are three Primary types of Meb application architecture.

Single-Pouge Applications: (SPA:)

Notead of loading completely new
Pages from the server each time for
a user action, Single Page web

applications allows for a dynamic
interaction by means of providing
applicated content to the current

Pages.

Towa Script & MML is the Journation of Asynchronous.

Towa Script & MML is the Journation of Porenathing Page communication & hence.

making SPA, a Seatity. Because single

- Page applications Prevent interruptions

in user experience, they in a way,

resemble traditional desktop applications

### 24 Microsenvices:

that execute a single functionally.

The micro socialies Archi exection.

The micro socialies Archi exection.

Transwork has a number of advantages

that allows developers to not only

enhance Productivity but also speed

up the entire deployment process.

build using the microsewice Architecture aren't directly dependent on each other. As such they don't necessitate.

## 24 Serverless. Architecutures.

or outsourcing server as well-as intrastructure moungement.

that it allows applications to execute the code logic without bothering with the ingrastructure related tasks.

tohen the development company.

This server less Arrchitection is beit to then the development company.

doesn't want to manage by supports the server as well as the hardware they have developed the web application.

the state of the s