Phase 1

03-09-2022

Day 1

MEAN Stack : Mongo Db / MySQL Express JS Angular Framework Node JS(JavaScript)

4 phases

Phase 1 Self learning

Agile

Git

HTML,CSS and Basic JavaScript

Adv JavaScript

Bootstrap

Phase end project.

Phase 2

JavaScript using ES6

TypeScript

Angular Framework

Phase 2nd project

Phase 3

Node JS

Modules

Express module : with REST API

Mongo DB database

Etc

Phase end project

Phase 4

Testing and deployment

Jasmine and Karma

Devops : Docker, Jenking, Overview of Kubernetes

AWS Overview

Phase end project

Capstone Project

Phase 1 :

Day1 : Software engineering and SDLC (Software development life cycle).

Git : it is a subversion control system. Which help to record the flow the application. Using git and github we can share the code from one team to another team.

Online Shopping : using MEAN Stack

Login module

Customer module

Feedback module

Product module

How to make the normal folder as local repository.

git init : This command is use to make local folder as local repository

ls : this is known as list command which is use to display all file and folder present in current directory

ls –a : this command is us display hidden folder present in current directory.

git status : This command is use to check the current status of local repository.

git add filename : This command is use to the specific file from local repository to staging area.

git add . : This command is use to add all files and folder present in current directory to staging area.

git config --global user.email "akash300383@gmail.com"git config --global user.name "akash"

git branch :

git branch is like a pointer which hold more than one commit details.

git branch : This command is use to view all branches present in local repository.

Default branch name may be master or main .

git branch branchname

to switch from one branch to another branch

git checkout branchname

git merge branchName: This command is use to merge user-defined branch task into current branch

git branch –D branchName: This command is use to delete the branch

we have to share this code with help of remote repository

Github : it is a open source remote repository provided by micro soft organization.

Gitlab

Bitbusket

Code commit part AWS

Azure etc

git branch -M main : This command is use to rename the branch

git remote add origin https://github.com/Kaleakash/test11.git

git remote add origin URL

This command is use to link local repository with remote repository

git push –u origin main

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Day 2

If you want to download fresh new existing repository in local machine we have to use below command.

git clone URL : This command is use to download the public existing repository in local machine.

git clone https://github.com/Kaleakash/MEAN\_Batch\_Sep\_2022.git

git pull : This command is use to get new updated in existing repository.

But make sure your command prompt inside a repository folder.

git clone https://github.com/Kaleakash/MEAN\_Batch\_Sep\_2022.git

don’t open or change any file in repository in master or main branch.

git branch yourname

git branch ajay

git checkout branchname

git checkout ajay

then if you need new updated from my repository then you have to switch to

main or master branch and then run the command as

git pull

https://[www.google.com](http://www.google.com) : URL : Uniform resource locator

http : hypertext transfer protocol : set of rules which help to communicate more than one machine.

https: secure

www : word wide web

google : domain or server

com : commercial

req(https/http)--------------------🡪

Client Server

🡨----------------Res(http/https) html

Html : Hypertext markup language: it is use to create the web page. Display the content in different format on browser like plain text format, bold format, color format, picture, audio or video format.

Html provided lot of pre-defined tags which help to create the web page.

Syntax

<tagName> opening tag

</tagName> closing tag

Html is not a case sensitive. We can write the tag in upper case or lower case don’t matter.

Html tags

1. Html tag
2. Head tag
3. Body tag
4. Paragraph tag

<html>

<head>

<title>My App</title>

</head>

<body>

<p>Welcome to Simple HTML Web Page</p>

</body>

</html>

IDE : Integrated Development Environment

MEAN Stack developer : VSCode IDE

We can write more than one p tag.

Break tag : <br> or <br/> self – closing.

Bold tag <b>

Italic tag <i>

Underline <u>

Heading tag : if we want to write any heading top of paragraph or any other tags then we can use heading tag.

Heading tags divided into 6 types.

H1 : largest

To

H6 : smallest

Attribute : Attribute is known as properties of tags. Every tag contains one or more than one attribute. Attribute we have to use in opening tag in the form of key-value or name-value pairs.

Syntax

<tagName name1=”value1” name2=’value2’ name3=value3></tagName>

In html value can be in double quote or single quote or without quote. If value have more than one word then it must in single or double quote.

Font tag This tag is use to change the color, style(face) and size.

Html 1.0, 2.0, 3.0, 4.0 and 5.0

In html 4

<!doctype HTML PUBLIC URL=”<https://publichtmlurl.dtd>”/> document type definition

That dtd file contains rules for html page like what is the root tag name ie html, which contains two child tag ie head and body and inside body tag we can write more than one p or heading or other tags.

In html 5 they remove this rules and added more new tags in html to make html page dynamic.

<!doctype HTML /> : It provided instruction to browser we are going to write html 5 features.

Without this tag also we can use html5 features.

Using hyperlink we can connect one page to another page as well as we can point to same page particular content ie bookmark.

1. External hyperlink : <a href=”pageName.html”>Text</a>

a : anchor tag

href : hyper reference

<p name=”abc” id=”p1”> First para</p>

<p name=”abc” id=”p2”>Second para</p>

<p name=”xyz” id=”p3”>Third para</p>

<h1 name=”abc” id=”p4”>First heading</h1>

<h2 name=”xyz” id=”p5”>Second heading</h2>

Two tag have same name or different name they can have same name.

To make the uniqueness between two tags if tag name is same or different we have to use

Id. Using id we can read, write and update html content using JavaScript dynamically.

Adding the image to web page

<img src=”imageName.extensionOfImage” />

img 🡪 image

src 🡪 source of image

Day 3 : 09-10-2022

List Tag :

List tag is use to display item in proper format.

Un Order List

Ul : unorder list

Li : list item

Order List

Ol : order list

Li : list item

Definition list

Dl : definition list

Dt : definition term

Dd : definition description

Table Tags

This tags is use to display the content in table format.

Table -🡪

Tr 🡪 table row

Th 🡪 table heading

Td 🡪 table data

Thead

Tfoot

Tbody

Forms

Using form tags we can pass more than one value to server as container.

Before HTML5

<input type=”text/password/radio/checkbox/button/submit/reset/file”/>

After HTML5

<input type=”number/email/url/search/data/data-time/color”/>

By default every form default method consider as Get.

If method is get it will send the data through URL using query param concept.

URL?key=value

URL?key=value&key=value

URL?key=value&key=value&key=value

Get method is not secure and we can send maximum 255 character data.

If we want data must be secure then we have to use post method

If method is post it will send the data through body part of request. Using post method we can use huge data.

Performance wise post method is slower than get.