**MEAN Stack**

**Phase 1**

**Day 1**

**26-07-2021**

<https://github.com/Kaleakash/MEAN_Stack_TCS_July_2021_Batch.git>

MEAN Stack :

Mongo Db / MySQL Express JS Angular Framework Node JS

Phase 1

Git

HTML,CSS,JavaScript using ES5

Bootstrap

Section end and phase end projects.

Phase 2

Node JS Overview

TypeScript using ES6 features

Angular Framework

Section end and phase end projects

Phase 3

Node JS

Node JS modules http, util, fs, express js

Mongo DB database : No SQL Database

Mongodb and mongoose modules to connect the database through JavaScript (Node JS)

Socket programming

Section end and phase end projects

Phase 4

Docker

AWS Overview : EC2 and S3

Deploy the MEAN Stack project in EC2

Section end and phase end projects

Capstone project : Team 5 people

GIT :

Local Version control :

SVN:

Git is sub version control system.

Version control system that records changes on files or project or application.

Merge the two team code in one application.

Git provide local as well as remote repository (folder or directory).

**Open the terminal**

Check the git version using command as

Open the Terminal

git --version

Then create folder

Move inside a folder.

mkdir folderName

Then create file using command prompt or GUI and write some contents.

To create local git repository using command as

git init

to check the status of last command we have to use command as

git status

to add the untrack file from file system to staging area.

git add filename

git status

After this command file will move from file system to staging area.

To move file from staging area to local repository we have to run the command as

git commit –m “created first file”

create github account with your

git config --global user.email "you@example.com"git config --global user.name "Your Name"

if we do any changes in existing file or added new file or folder

Then run the command as

git status

git add .

git commit –m “commit message”

These command repeat again and again.

remote repository : github, aws(code commit), azure etc.

To push the data from local repository to remote repository we have to use the command as

git remote add origin URL

git push –u origin master/man

or

git push

or

git push –u origin HEAD

Another way to create the repository

git clone URL

if first time we want to download the data from remote repository we have to use

git clone URL

**Phase 1**

**Day 2**

**27-07-2021**

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

**Git commit : it is use to send the data from staging area to local repository is known a git commit.**

**Git staging are : it a buffer area created by git which hold the data before commit. It is a intermediate layer or memory between local system and local repository.**

**By default depending upon the version of git default branch created it may main or master**

Default master/main branch

Do some changes 🡪add/commit -🡪add/commit --🡪add/commit

A branch

Do some changes 🡪add/commit --🡪add/commit

After done all changes in user-defined if code is correct then merge user-defined branch into main/master branch else we will delete the branch.

To check default as well as user-defined branch names

git branch

To create new branch

git branch branchName

To switch from one branch to another branch

git checkout branchName

To merge user-defined branch code to current branch ie main/master

git merge user-definedBranchName

To delete user-defined branch

git branch –D branchName

git pull : it use to download latest data from existing remote repository.

git pull execute in main/master branch if you want to do changes even space or dot. Please create user-defined branch do the changes if any thing wrong switch to main/master branch and delete user-defined branch.

UI Technologies

Day 2 and Day 3 HTML/CSS

https://[www.google.com](http://www.google.com) URL : Uniform Resource Locator

http : protocol : hyper text transfer protocol : secure

www : world wide web

google : domain

com : commercial

req(http/https)------🡪

Client Server

🡨---res(http/https)----- HTML/HTML5

CSS/CSS3

JS (JavaScript)

**HTML/HTML5-**🡪 It use to display the content on browser.

CSS/CSS -🡪 Apply good look and feel or presentation logic on contents.

JavaScript 🡪 Event on contents or programming on web page.

basically if a web page was a body then html is the skeleton, css is the skin, and javascript is the organs

HTML : Hyper text Mark up language : it is use to create web page it may be static or dynamic.

HTML provide lot pre-defined tags or elements. HTML is not a case sensitive as well as not a structure.

Tag syntax

<tagName> opening tag

</tagName> closing tag

<tagName/> self closing tag

1. Html
2. Head
3. Body
4. Title
5. P

Open the notepad or any editor

Write the html code

<html>

<head>

<title>This is my simple web page</title>

</head>

<body>

<p>Welcome to My Simple Web Application </p>

</body>

</html>

Save the file with any name with extension .html

Make sure file extension must be .html

Then open in an browser.

**IDE**

Notepad ++

Bracket

ATOM

Eclipse

VS

**VS code**

Break tag <br/>

Heading tags

H1 to h6 heading tags

H1 means largest

H6 means smallest

Html 4 version (xhtml)

<!doctype html public url=”pathpath.**dtd**”>

Document type definition

dtd file contains the rules what is root tag name ie html, which contains two child tag head and body

body tag can contains more than one p as well as other tags.

html5 they remove dtd file

**<!doctype html> : this tag is use to give the instruction to browser we are going to html5 features this tag also optional.**

And added more tag to make html dynamic web page without depend on any other language.

**Hyperlink** : hyperlink is use to connect more than one web page.

<a href=”pageName/pageName.html”>Text</a>

a : anchor tag

href : hyper reference.

To add the image

Syntax

<img src=”ImageName.jpeg/gif/” />

Img : image

Src : source

**Phase 1**

**Day 3**

**28-07-2021**

List Tags

HTML provide different type of list tags

UnOrder list : ul : unorder list and li :list item

Order List : ol order list and li list item

Definition List dl : definition list, dt : definition term and dd : definition description

**Table Tags**

Table tag,

Tr : table row

Th : table heading

Td : table data

**EmpId Name Age heading**

100 Raj 21

101 Seeta 22

102 Meeta 23

**Attribute** : attribute is use to describe the properties of a tags.

Attribute we can use in the form of key-value pairs.

We can use value may in single quote or double quote or without quote.

We have to use attribute inside a opening tags.

Syntax

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

**Form tags**

Login Page

UserName TextField

Password PasswordField

Submit Reset

Before HTML5

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

After HTML5

<input type=”number/email/date/url” />

HTML form by default method is consider as GET

If method is GET data send through URL using URL re-direct technique

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

Get method is not a secure.

If we want data must be secure we have to must method=”post”

If method is post data send through Request body part.