**Phase 1**

**Day 1**

**03-07-2021**

**Full Stack**

**MEAN Stack**

**MERN Stack**

**MEAN Stack**

**Mongo DB / MySQL**

**Express Module** using JavaScript we can create web application as well as REST full web service.

**Angular Framework** / React JS

**Node JS**

**MEAN Stack**

**Front end Phase 1 and Phase 2**

Phase 1

SDLC Agile

Git

HTML/CSS/Basic JavaScript

Using ES5 style DOM, event, function

Using ES6 style

Babel

Webpack

Overview Of Node JS

Phase 2

TypeScript

Angular Framework 10/11/12 etc

**Phase 3 backend**

Phase 3

Node JS

Module fs, util, url, http module

Express , REST API.

Mongo DB : Database

Mongodb as well as mongoose module.

**Phase 4**

Testing : jasmine, mocha, chai etc

Docker

AWS Overview etc

Visual Studio Code

**VSCode**

**Phase 1**

**Git**

**Version Control System :** Version control system that records or history changes of files or code inside the application.

3 line commit s1,

3 line commit s2,

3 line commit s3

Local version control :RCS : Revision Control system.

Centralized version control : SVN :

c1 c2 c3

Server (Repository ) folder.

Distributed Version Control

c1 c2 c3

Local Rep Local Rep Local rep

Server (Repository ) folder.

Github, bitbucket, AWZ, Azure, Google cloud etc.

We are going to learn Distributed Version control system

Git is type of Distributed version control system.

It is open source.

**Git commands**

**git --version**

to make local folder as local repository we have to run the command as

git init : This command is use to create the local repository. (only one time).

git status : This command is use to display last command status.

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

git add . : all files and folder present in current directory.

git commit –m “Message” : This command is use to send the file from staging area to local repository.

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

git config --global user.name "Akash"

if we do any changes

git add .

git status

git commit –m “message”

Github is one of the remote repository

Connecting local repository with remote repository

git remote add origin URL

git push –u origin HEAD

to check remote repository URL

git remote show origin

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

connect the virtual lab

create folder

create file with data

git init

git add .

git commit –m “message”

**git branch :** git branch is like a pointer. git branch is use to keep or hold more than one commit details.

Default branch may **main** or **master**.

---🡪c--🡪c--🡪c A branch

---🡪commit---🡪commit---🡪commit-🡪

--🡪C-🡪C B---Branch

To create user-defined branch

git branch branchName

to check all branch details as well as current branch details.

git branch

To switch from one branch to another branch

**git checkout branchName**

**Phase 1**

**Day 2**

**04-07-2021**

**git branch : view all branch**

**git branch branchName : created new branch**

**git checkout branchName : switch to branch**

**git checkout –b branchName : create as well as switch to new branch**

manager main.txt

coding….

Push this code to remote repository

Create folder

Create files (main.txt)

Git init

Git add .

Git commit –m “done”

Git remote add origin URL

Git push –u origin HEAD

Git clone URL : first time to load the new repository

Git pull : it add new changes in existing repository

C1---🡪C2---🡪c3(HEAD)

**Raj**

**git clone URL**

create new file

create branch

git checkout –b Raj\_Login

git add .

git commit –m “message”

git push –u origin HEAD

inform to manager or remote repository developer after merge then branch code in main or master branch

clean up activity

git checkout main

git branch –D Raj\_login

git pull ( pull from remote repository)

**Ravi**

**Git clone URL**

If we want to do any changes even to write . or space. Do in user-defined branch.

**Push user-defined branch to remote repository**

**Pull in main/master branch from remote repository**

**demo.txt**

Demo.java

int a;

1st person code

int a;

2nd person code

**UI Technologies**

**HTML**

https://[www.googel.com](http://www.googel.com) URL

http : it is protocol. Set of rules which help to communicate more than one machine.

Www :world wide web

Google : domain

Com : commercial

Req(http/https)----🡪

Client Server

🡨--res(http/https)----

HTML/HTML5

Using HTML1, html2 and html3 we can create static web pages. We can create dynamic web page using other programming language like jsp, asp, php or JavaScript.

From HTML4 and HTML5 we can create dynamic web page alone without depending other technologies.

If user interact with web page some changes happen on web page.

HTML is provide lot of pre-defined tags.

Html is not a case sensitive.

Tags syntax

<tagName> opening tag

</tagName> closing tag

1. Html
2. Head
3. Body

What is html

Few html tags

Hyperlink

Add image

List tag

Table

Forms table

P

Heading h1 to h6

Attribute : attribute is known as properties of tags.

Attribute we have to use opening tag in the form of key-value pairs. Value may be single or double or without quote. We can write more than one attribute for tags.

<tagName key1=”value” key2=’value’ key3=value>

</tagName>

**Html 4**

**JSF : Java Server Faces**

Xhtml

<!doctype HTML PUBLIC =”URL……..dtd”/>

Document type definition

This file contains the rules for html page

What is the root tag name,

What is child tag tagName

Number of type tags 0 or 1 or many. Etc

**Html 5**

**<!doctype HTML>** giving the instruction to browser we are using html5 features in that page. (optional).

**Hyperlink**

Using hyperlink we can connect one page to another page or connect to content in same page(like bookmark).

External hyperlink

<a href=”PagePath.html”>Text</a>

a anchor

href hyper reference

Internal hyperlink

**Phase 1**

**Day 3**

**10-07-2021**