**Day 1 : 08—5-2021**

**MEAN Stack :**

**Mongo Db/MySQL Express JS Angular Node JS**

**Phase 1 :**

**Agile : Self learning : SDLC**

**Git : Self Learning : Version Control System.**

**DevOp:**

**Web Technologies :**

**HTML/HTML5, CSS/CSS3, JavaScript using ES5 and ES6 and bootstrap etc.**

**Overview of Node JS**

**Babel**

**Webpack**

**Typescript Overview**

**Phase 2 : TypesScript and Angular 8,9,10,11 etc**

**Phase 3 : Node JS, Express JS (REST API), Mongo DB and Mongoose etc.**

**Phase 4 : Deploy the application in AWS , ES2 and S3 etc**

**SVN :**

**Git : Version Control System**

**Version Control System that records changes on files or folder or project.**

**Distributed Version Control system.**

**Online Shopping :**

**10 member**

**1 login page**

**2 application page**

**3 product details**

**4 product view details**

**5 order details.**

**After finish all coding they have to push the code in central folder (repository).**

**Central Repository (online shopping)**

**Git hub**

**AWS**

**Azure**

**Google cloud**

**Oracle cloud**

**Etc**

**10 member**

**Pull the project from central repository**

**Git**

**1**

**To**

**10**

**After finish the task they push the code to central repository.**

**First command is use to check the version**

**git --version**

**git init** This command is use to create the local repository.

**git status** : This command is use to check status of last command in local repository.

**git add filename :** This command is use to add the file in staging area. Staging area is consider as a buffer memory for git which store information about what will go the next commit.

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

**Create folder : which contains set of files or project**

**git init : This command only one time(first time)**

**git status**

**git add filename**

**git status**

**git commit –m “message”**

**git status**

**git add . : all file and folder present in current directory.**

**Git hub :**

**It is a one of the remote repository.**

**Git : It is open source software which help to interact with the remote repository (git hub etc).**

**AWS : Code Commit : remote repository**

**git remote add origin URL :**

**This command is use to connect local repository to remote repository.**

**git push –u origin HEAD : This command is use to push the data from local repository to remote repository.**

**Please add new file in local repository folder.**

**git status**

**git add .**

**git commit –m “file added”**

**git push –u origin HEAD (HEAD means last commit)**

**git clone URL : It download all file or folder present in remote repository to local machine as well as it make that folder as local repository.**

**git clone URL : if we are downloading all files or filed first time. That time we have to use git clone URL.**

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

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

**git branch : This command is use to display all branches present in local terminal.**

**Default branch may be master or main**

**Old version default branch is master consider**

**New version default branch is main consider.**

**Creating user-defined branch**

**git branch branchname**

**how to switch to user defined branch**

**git checkout branchname**

**Manager – Akash**

**Banking App**

**Sample Template created..**

**Git init**

**Git add .**

**Git commit –m “project created”**

**Git remote add origin URL**

**Git push –u origin HEAD**

**Default branch is main/master**

**Ajay Vijay**

**Git clone URL git clone URL**

**main default branch main default branch**

**Application page Customer page**

**Please create user-defined branch**

**If he/she do changes on default branch**

**git add .**

**git commit –m “message”**

**git push –u origin HEAD**

**Creating the branch**

**git branch branchname**

**git checkout branchname**

**Or**

**git checkout –b branchName**

**Command to remove or delete the branch**

**git checkout main/master branch**

**git branch –D branchName**

**git pull in main/master**

**git push (user-defined branch)**

**Day 2 : 09—5-2021**

**Git init**

**Git add .**

**Git commit –m “message”**

**Git remote add origin URL**

**Git push –u origin branchName (all commit pass)**

**Or**

**Git push –u origin HEAD (last commit in that branch)**

**Git push –u origin**

**To rollback to specific commit we have to use the command as**

**git log : This command is use to display all commit details.**

**git checkout commit-id**

**Use-defined branch**

**Combine 2 or n branch code in one branch using 2 ways**

1. **Merge : Merging brings two line(branches) of development code together while preserving the ancestry of each commit history.**
2. **Rebase : rebasing unifies the line(branches) of development by rewriting changes from source branch so that they appear as children to the destination branch.**

**Web Technologies**

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

**http: protocol : set of rules which help to communicate more than one device or machine.**

**Hyper text transfer protocol.**

**S : secure.**

**www: world wide web**

**google : domain or server or search engine.**

**Com : commercial application.**

**req(http/https)--🡪**

**Client Server**

**🡨--Res(http/https)**

**Html / html5**

**CSS / CSS3**

**JS**

**HTML / HTML5 is use to display the content in browser in different format. Skeleton**

**CSS /CSS3 is use to apply formatting style or presentation logic to content. Skin**

[**http://gmail.com**](http://gmail.com)

**Form Validation**

**JS : Using JS we can do event or action on that contents.**

**HTML : Notepad**

**Or**

**HTML5**

**VSCode**

**HTML : Hyper text mark up language: which help to create the web pages.**

**HTML provide lot of pre-defined tags or elements.**

**Syntax**

**<tagName> opening tag**

**</tagName> closing tag**

**<tagName/> self closing tag**

1. **Html**
2. **Head**
3. **Body**
4. **Title**
5. **P – paragraph**
6. **Br – break**
7. **Heading tag : 6 types**

**H1 to h6 : h1 largest and h6 smallest**

**Attribute : Attribute is known as properties of tags.**

**Attribute we have to use in opening in the form of name-value pairs.**

**Value may be single or double quote or without also possible in html.**

**<tagName name1=”value” name2=’value2’ name3=value3>**

**</tagName>**

**Font tag : That tag is use to change color, style and size of contents.**

**3 attribute color, size and face**

**Hyper link tags**

1. **One page application : using internal hyper link or bookmark.**

**<a href=”#a1”></a>**

**<a name=”a1”></a>**

1. **Multi page application : using external hyper link**

**<a href=”pageName.html”>Text</a>**

**a : anchor tag**

**href : hyper reference**

**Image tags**

**<img src=”imageName.formatOfImage”/>**

**List tag**

**2 types**

**Unorder list**

**<ul>**

**<li></li>**

**</ul>**

**Ul : unorder**

**Li : list item**

**Order list**

**<ol>**

**<li></li>**

**</ol>**

**Ol: order list**

**Li : list item**

**Table tag**

**Employee Details**

**Id Name Salary**

100 Ravi 12000

101 Ramesh 14000

103 Lokesh 16000

**In React JS if we are planning to display the data using table tag we have to use thead and tbody mandatory otherwise we will get the warning message in React JS.**

**Form tags**

**Login Page**

**UserName TextField**

**Password Password**

**Submit Reset**

**Before HTML5**

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

**HTML forms methods**

**By default form consider as get method.**

**If method is get (by default get). The information of forms send through URL using url re-writing (query param) technique.**

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

**If method is Get information send through URL**

**So data is not secure.**

**We can send maximum 255 character data only.**

**If we can to secure data then we have to use**

**Post method**

**SPA (Single Page Application )**

**Using Angular or React or Vue JS**