Day 1 :

06-01-2023

Full Stack :

Java

Python

.net

MEAN Stack

MERN Stack

Java Full Stack

Phase1

SDLC

Software Development Life cycle.

SDLC Model

Water fall model

Increment model

V model

Agile

Etc

Git : DevOps

Login (SignIn and SignUp) : HTML

Dev1 SignIn

Dev2 SingUp

Git

Manager -🡪

Java Programming

Basic Program

OOPs

Procedure

Object oriented programming

Functional programming

Aspect oriented programming

Phase 1 :

SDLC and Agile

Git

CI/CD

Core Java and data structure

Phase2

Intro to cloud

AWS : Overview : install Jenkin etc.

Into to database mysql or oracle or mongo db.

Phase3

Spring framework or spring boot

Phase4

UI html, css, js angular / react

Phase5

Testing selenium, docker, Kubernetes,

CI and CD

AWS Overview

Program : set of instruction to perform a specific task.

Input read a=10,b=20,sum

Process sum = a+b;

Output write sum

UML

ER-Diagram

SDLC

STLC : Software Testing Life cycle

JSON : Java Script Object Notation

XML :

RDBMS : MySQL table format

No sql : Mongo DB json format

Neo4J graph format

Day 2 :

06-02-2023

Git

Maven

Gradle

Docker

Cloud tech

Etc





Day 3 :

06-05-2023

DevOps

Day 3

Git

Day 4

CI and CD Tool Using Jenkin

Git : Git is distributed sub version control tool which help to record the flow the application.

Git is an open source software.

Dev1 login page.

Dev2 Remote Repository

Dev3

Please login to virtual lab.

Then create the Folder

Then create the file with some contents

Inside a open the terminal to verify git version

git --version

git init This command is use to local folder as local git repository.

ls -a this command display all files and folder including .git folder. (Unix command).

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

git add filename This command is use to add the file from local machine or folder to

stagging area.

Or

git add . we can add all file and folder present current location.

git commit -m “commit message” this command is use to push the file

from git stagging area to local repository.

git config --global user.email “[akash300383@gmail.com](mailto:akash300383@gmail.com)”

git config --global user.name “akash”

In Same folder create another file with simple message.

In terminal

git status

git add .

git status

git commit -m “task2”

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

Using git branch command we need to check default branch details

By default branch name can be master or main.

Command to create user defined branch

git branch branchname;

git branch : this command to check all branches present in local repository

git branch A This command is use to create user defined branch

git checkout branchname: This command is use to switch from one branch to another branch

git merge branchname : this command is use to merge user defined branch code to current branch

git merge A

git branch -D branchName

git branch -D A This command is use to delete the branch

if we want to share the code to other team then we need to configure our local repository to remote repository

Remote repository can be

Git hub

Git lab

AWS

Azure

git branch -M main : rename local branch name

git remote add origin URL : this command is use to link local repository to remote repository.

Day 4 :

git remote add origin <https://token@github.com/Kaleakash/test_repository.git>

ghp\_MRDeF2TlL5gakBPq7c1WLIKkVucHxh1Q5iuq

git remote remove origin this command remove remote repository from

local repository

git remote add origin <https://token@github.com/Kaleakash/test_repository.git>

please create separate folder

open the terminal and write the command as

git clone <https://github.com/Kaleakash/test_demo.git>

once you clone test\_demo folder created in your local machine

that folder contains test file.

Next file if you need any new changes then open the terminal inside a folder and write

The command as git pull

git branch -M main

CI and CD : Continuous Integration and Continuous Deployment / Delivery

Remote Repository : GitHub /GitLab/ AWS / Azure etc

Manager

Login page

Dev1 Shared Repository (structure of project present in main or master branch).

application page

Dev2

Feedback page

Dev3

Dev1 create user defined branch with some rules and start the working inside that branch.

git add .

git commit -m “login page created”

git push -u origin branchName;

After dev1 or dev2 or dev3 when we merge the code to actual working code

We need to compile, run , test (build the project).

May be we can build success fully or we can get the error.

We are combining more than one developer code ie integration phase.

Jenkin is an Open source CI and CD tool created using Java technology or language.

Java is an open source. Jenkin is a plugin base CI and CD.

Java : Java is an open source, pure object and platform independent programming language.

Java introduce in nov 1995. Initial name of the Java is Oak.

OOPs : Object Oriented programming

Object : object is any real world entity.

Property or state -🡪 have (data type int, float, char, string,boolean)

Person

Behaviour 🡪do/does 🡪 action 🡪 teaching(), listening(), sleeping(), eating() etc

Bank

Wheel(int), colour(string), price(float) etc -🡪 have

Car

Start(), appliedGear(), moving(), stop() etc 🡪 behaviour

name,

Employee

Customer

Etc

Online application :

Pid,pname,price,qty etc.

Product

addProject, updatePrice, deleteProduct, viewProduct etc

viewProduct , orderTheProduct etc.

Order

Account

Login

Manager

Customer

etc

object is concept.

class : class is known as blue print of object or template object or it is user defined data type which help to create the object.

Class syntax :

class Car {

property

behaviour

}

class Car {

int wheel;

String colour;

float price;

void start() {

}

void stop() {

}

}

Car innova = new Car(); car class object created.

Car bmw = new Car(); another class object created. (memory created);