http://www.google.com	URL		
	req(http)→		
Client		Server	
	←Res(http/https)		html/html5
			Css/css3
			JS(Javascript)
			TS(TypeScript)
			Angular framework

Frontend technologies

Java

Asp.net

Cucumber (testing tool)

Php

Python

Node js

Backend technologies

Java all topics (core Java)

Build tool : maven or gradle

JDBC: using java we can connect to database: mysql or oracle

Servlet: it is a java module which help to create java server side application.

Servlet and JSP to create backend technologies using java.

Mongo db: JSON (Java Script object notation): to store the data in json format we can use

Mongo db (key-value).

html Servlet-jsp: to create backend technologies

css Jdbc -→ to connect database

js Mysql or mongo db

ts

angular

or

spring framework or spring boot

orm or spring data

mysql or mongo db

development : we are creating the application using some technologies.

deployment phase

devops: git, maven or gradle, docker, jenkin, overview of AWS

Git: git is distributed version control tool which is use to record the flow the application.

Create a folder with name as Repo

Inside a folder create any file ie sample with simple message.

Then open the terminal inside that folder

Then check git --version

git init to make that folder as local repository

git status this command is use to check the status of local repository

git add filename to add the file from local machine to stagging area

git commit -m "message" to add the file from stagging are to git local repository

if we execute this command at first time it will ask to set email and name details

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

git config --global username "akash"

modified same file or create new file

then check the status

git add. this command add all files and folder to stagging area

git commit -m "message"

git status

git branch:

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

git branch: this command is use to check all branch details present in local repository.

By default one branch provided by git with name may be master or main

To create user defined branch

git branch branchname

then check all the branches present in local repository

git branch branchname this command is use to create the branch

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

first create the branch with any name like Akash git checkout akash to move from master to Akash then do some task like create file and add some contents inside that file git add. git commit -m "created new file" then move to master branch then create another branch like Vikash git checkout Vikash then do some task like delete the file git add. git commit -m "file deleted" git branch -D branchname this command is use to delete the branch remote repository using remote repository we can share the code between more than one team. Github Bitbucket Gitlab AWS (code commit) Azure Or private repository git branch -M main : this command is use to rename the branch

git remote add origin URL : this command is use to link local repository to remote repository git remote add origin https://github.com/Kaleakash/caltech_Java_Aug_2023_batch.git git remote add origin https://token@github.com/username/repsository

git push -u origin main

if you added wrong url or without token or any error please remove url using command as

git remote rm origin

then repeat same steps once again that is git remote add origin https://token@github.com/username/repsository git push -u origin main

we need to generate the token