**CI and CD:** Continuous integration and Continuous deployment or delivery

Dev1

Login page Shared

Dev2 remote

Resapi repository 🡨----------🡪 CI / CD --🡪 actual/testing server

Dev3 (git hub)

database design **Manager**

Dev4

Testing code

**Jenkin :** Jenkin is an open source CI and CD tools base upon Java technologies.

Jenkin is plugin base CI and CD tools. Jenkin is a GUI base CI and CD tools.

Jenkin provide environment to build the different type of projects.

Download Jenkin war file from below URL

<https://www.jenkins.io/download/>

open the command prompt and run the below

**java -jar jenkins.war by default 8080**

or

**java -jar jenkins.war --httpPort=9090**

<http://localhost:8080>

<http://localhost:9090>

first time it will ask you password. Your can see your random password on console.

Please select installed suggested plugin

After plugin install it will ask you to create the account. Please create the account and login to Jenkin dashboard.

1. Job : display echo message
2. JavaBuild Project with trigger option:
3. Build spring boot project :

Below remote repository contains simple spring boot project.

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

1. Build react js application in Jenkin

Below remote repository contains simple react js project

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

**Jenkin Pipe Line Jobs**

Jenkin Pipe line job is responsible to execute set of job sequentially. Those jobs or command depends one by one.

**Jenkinsfile :** inside this file we can write the script code to build the pipe line jobs.

Below Repository contains simple java program with Jenkinsfile to build the pipe line jobs.