CI: continues build continuous test developer push code to the repository and code will be pulled automatically by Jenkins and get test and user will be notified

Username:ayanjenkins

Password:Fama@123

Develop Version Control Build Unit testing Deploy Auto test Production Deploy Measure validate

**Installation**:

1. Download Jenkins msi LTS exe file
2. Double click on downloaded Jenkins exe file
3. Click on next
4. Enter your windows user name and password click on next
5. Test port click on next
6. Installation will be complete and automatically browser will run Jenkins

**Create first project:**

1. **Login into Jenkins dashboard**
2. **Click on create jobs**
3. **Enter job description**
4. **Source management select none**
5. **Build trigger select build periodically. to run build every minute enter \* \* \* \* \***
6. **Build environment select nothing**
7. **Build**
   1. **Enter folder path where file is located**
   2. **Javac HelloWorld.java**
   3. **Java HelloWorld**

**Execute Jenkins job remotely:**

1. **Create job as normal but point no 2 will be change**
2. **Click on build periodically**
3. **Select trigger build remotely**
4. **Enter authentication token manually which you will pass in URL**
5. **Enter url on browser**
6. **User will be asked for login**
7. **Enter login credentials**
8. **Click on Submit build will be triggered**

**Git Project Run:**

1. **Create job as normal**
2. **Click on source code management**
3. **Click on git**
4. **Enter git repo address “ check http or ssh address as per OS system”**
5. **Add login credentials**
6. **Run build**

**Note: if get an error while fetching git repo try with create new project**

**Maven Project:**

1. **Create job as normal**
2. **On general**
3. **Click on Github project**
4. **Enter repo address ex:** **https://github.com/mastercodebegin/maventest/**
5. **don’t enter git clone address ex:** [**https://github.com/mastercodebegin/maventest.git**](https://github.com/mastercodebegin/maventest.git)
   1. **Note: repo and git address difference is we cannot clone git project by repo address. Repo address is a URL to navigate to the repo by browser look at clone address. Clone address has .git extension**
6. **On build trigger select GitHub hook trigger for GITScm polling**
7. **On build environment .select delete workspace before build start**
8. **On build select invoke top-level maven target**
9. **Enter “clean test”**
10. **Click on save and run script**

**Email-Configuration:**

1. **Click on manage jenkins**
2. **Configure system**
3. **Top bottom there is email notification setting**
4. **Enter smtp server address “smpt.gmail.com”**
5. **Select authentication**
6. **Enter gmail email password**
7. **Enter port**
8. **Test email if get an error make sure less escure is enable at gmail setiing**