**Requirements:**

1. All of the students would have their individual projects (Work Spaces, Jobs).
2. All the students can see each other’s created jobs if they can easily and would work on their own separate jobs.
3. 100 students approx.

**A student will learn:**

1. How to create a job, Configure the job, Parameterize, Generate report and connect to git hub and stuff.
2. Create a maven job or any other kind of job.
3. Create a pipe line in jenkins.
4. We need to have all the plug ins installed to use.
5. Executing Test Cases.
6. Every student has to have their own work space.

**Features:**

1. All the codes that we write in our local machine, we upload it to git hub which is then connected to jenkins and hence it automatically comes into our workspace.
2. And whenever we upload new codes, we clean the jenkins workspace to make sure that only

new codes are deployed to jenkins.

1. The test cases open a headless browser which only needs an environment to run and doesn’t

need an actual browser and test an hrms system by syntax.

1. We can have a single user and multiple jobs and multiple users with their own instances

depending upon what’s easier.

1. If you have jenkins on your local machine and you open the same dashboard from different logins it kicks the old one out. But we have an example in an office where all of the people can see the same dashboard but can work on their own separate jobs running at the same time

, they all have different users but the same dashboard, they have hosted it on AWS.

**How to install Jenkins:**

When we install jenkins locally, it creates a hidden directory named . Jenkins basically everything goes there. This directory will have all xml files and other jenkins required properties. When we create a job, whithin .jenkins directory, a new sub-directory is created named jobs and all jenkins jobs go there.

How to download Jenkins: (if you use war file).

Step 1 – Got to this link and download Jenkins war file - https://jenkins.io/

Step 2 - Place the war file into any location on your system

Step 3 – Go to command prompt (windows) | terminal (mac) – go to folder where jenkins.war is - java -jar jenkins.war

Step 4 – Go to browser - http://localhost:8080 (Jenkins window should show up)

Step 5 : install required plugins

Step 6 : get started with Jenkins

**Here are list of plugins.**

#Cucumber Reports

#Maven Integration

#Junit Reports

#Build Pipline Plugin

#JaCoCo

**How to install plugins:**

Step1= make sure you are on Jenkins tab where you see all jobs

Step2= click on Manage Jenkins

Step3= click on Manage Plugins

Step4= click on available tab

Step5= in the search box search for the desired plugin