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# Experiment No. 1.7

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**Branch:** MCA - CCD **Section/Group:** 22MCD-1/ Grp B
**Semester:** III
**Subject Name:** DevOps Process Automation Lab **Subject Code:** 22CAP-745

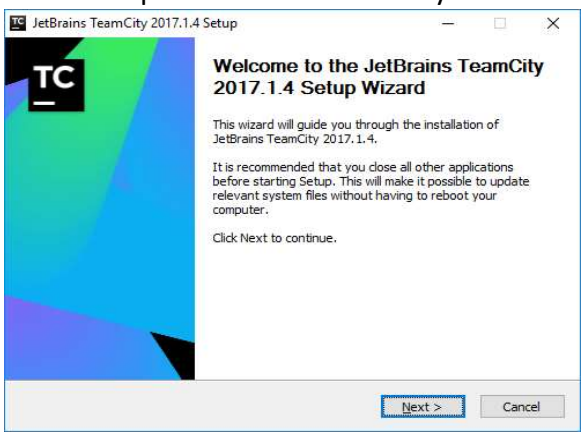
## 1. Aim/Overview of the practical:

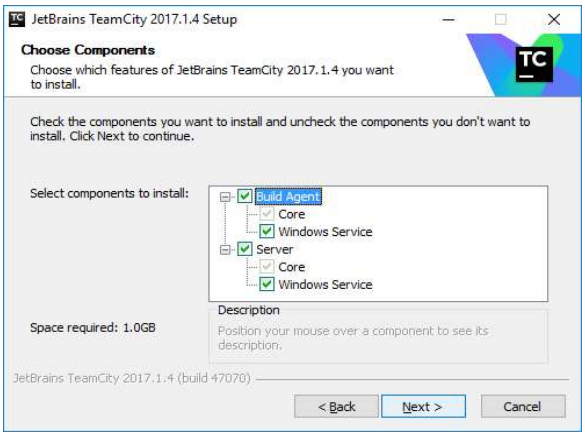
- Install and configure TeamCity.
- Make sure you fork the SpringPetClinic repository in your Github and connect that repository with TeamCity.
- Create a new project via TeamCity dashboard and build all the 9 goals of Maven.

## 2. Code for experiment/practical:

### A. Install and configure TeamCity.

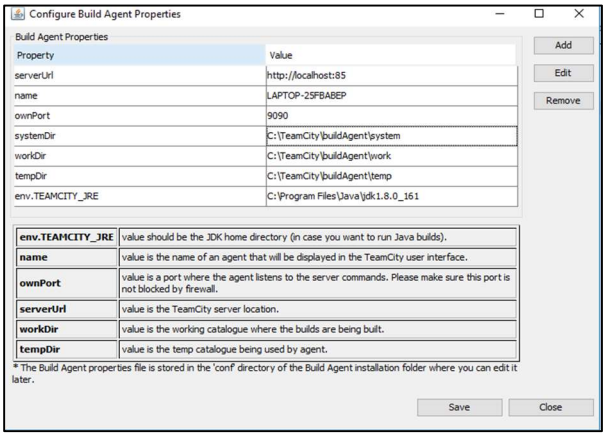
- Go to https://www.jetbrains.com/teamcity/download/#section=windows and click on the DOWNLOAD button to download the TeamCity installation package from the TeamCity website.
- Once downloaded, open the installation package and click Next:
- On the next screen, agree to the license and go to the next step:
- Select the path to install TeamCity in and click Next:

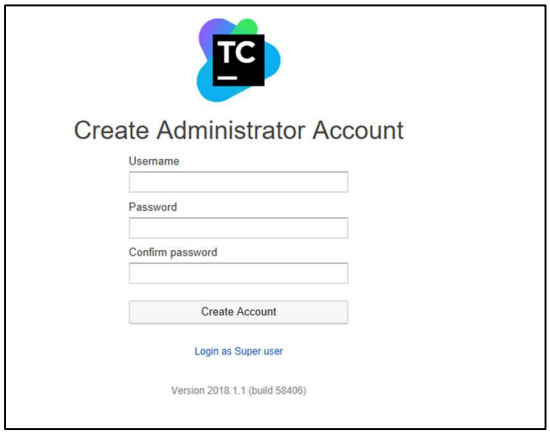


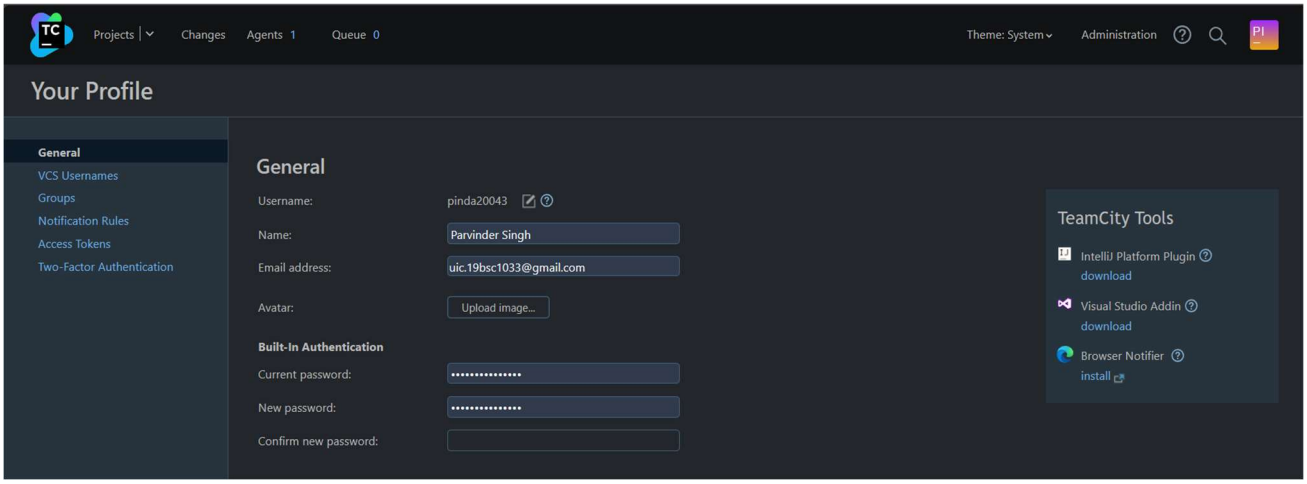




- Select the packages to be installed; for example, if you are installing Build Agent and Server on different servers, then select accordingly. For learning purposes, you can select to install both on the same machine.

- Once the installation is done, select the port you would like the TeamCity server to run on. Make sure this port is not used by other services on the machine, and choose a unique port number.
- Once installation is done configure TeamCity server by creating Administrator Account and start using TeamCity.



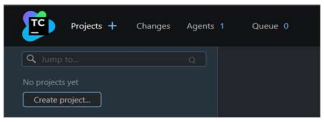




**B. Make sure you fork the SpringPetClinic repository in your Github and connect that repository with TeamCity.**

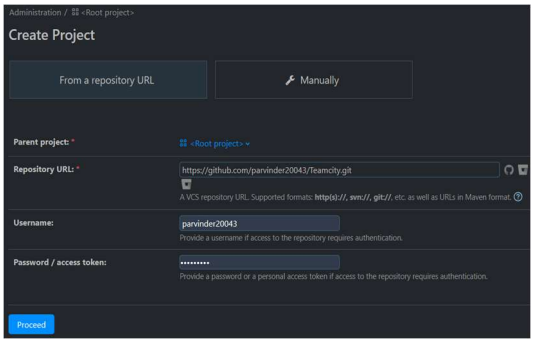
- Go to https://github.com/AnjuMeleth/SpringPetClinic
- Click on the Fork and Create a new fork

## C. Create a new project via TeamCity dashboard and build all the 9 goals of Maven.

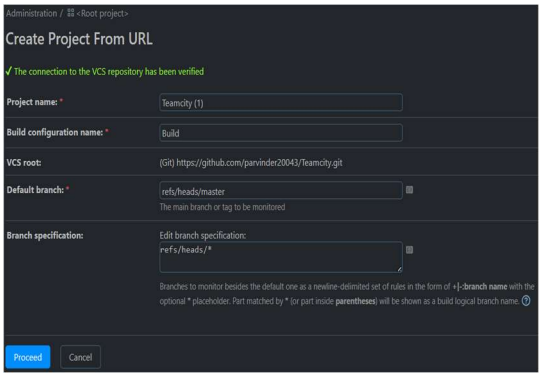
- Go to http://localhost:8111/favorite/projects?mode=builds
- Click **+ Create Project**.



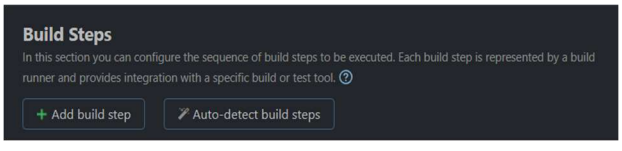

- Select the **From a repository URL tab**. In the Repository URL field, enter your repository, for example: https://github.com/parvinder20043/Teamcity.git .



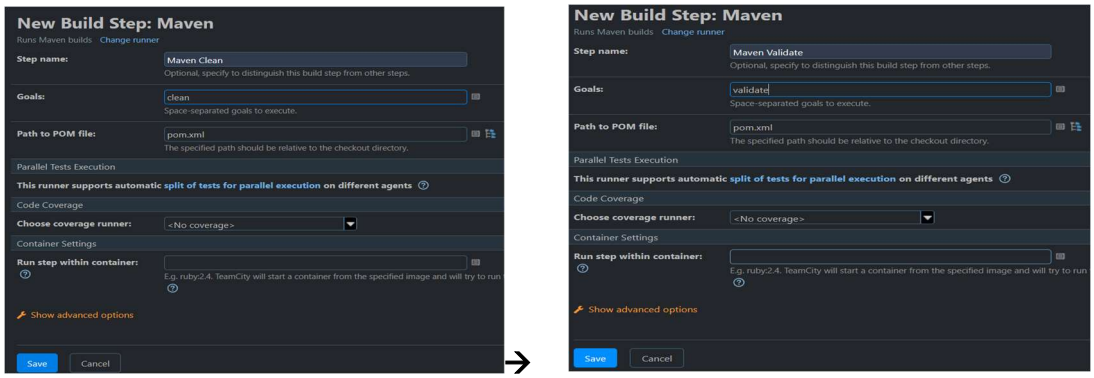

- If your repository requires authentication, enter your username and password / access token.
- Click **Proceed**.
- If TeamCity successfully connects to your repository, you will see the following dialog.
- In the **Create Project From URL** dialog you have the option to change the project name and initial build configuration name.




- Click **Proceed**. Project created successfully.
- Now **Select Build Steps > +Add Build Step > Maven.**



- Start Adding Build Steps for **Maven Clean, Validate, Compile, Test, Package, Integration-test, Verify, Install, Deploy.**




| Build Step | Parameters Description |
|---|---|
| 1. Maven Clean | Maven<br>Path to POM: pom.xml<br>Goals: clean<br>Execute: If all previous steps finished successfully |
| 2. Maven Validate | Maven<br>Path to POM: pom.xml<br>Goals: validate<br>Execute: If all previous steps finished successfully |
| 3. Maven Compile | Maven<br>Path to POM: pom.xml<br>Goals: compile<br>Execute: If all previous steps finished successfully |
| 4. Maven Test | Maven<br>Path to POM: pom.xml<br>Goals: test<br>Execute: If all previous steps finished successfully |
| 5. Maven Package | Maven<br>Path to POM: pom.xml<br>Goals: package<br>Execute: If all previous steps finished successfully |
| 6. Maven Integration-test | Maven<br>Path to POM: pom.xml<br>Goals: integration-test<br>Execute: If all previous steps finished successfully |
| 7. Maven verify | Maven<br>Path to POM: pom.xml<br>Goals: verify<br>Execute: If all previous steps finished successfully |
| 8. Maven install | Maven<br>Path to POM: pom.xml<br>Goals: install<br>Execute: If all previous steps finished successfully |

- After Adding Build Steps Click on **Run**.


## D. Output