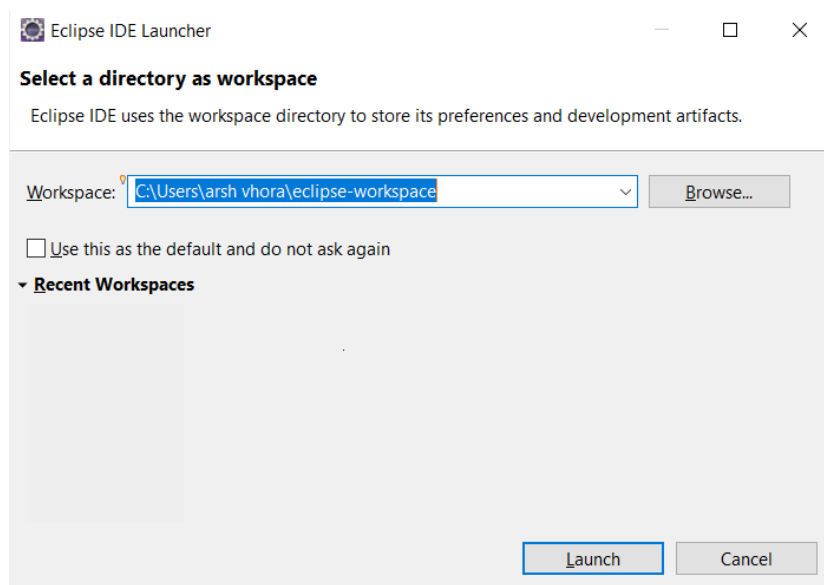To create Maven WebApp project, follow the below steps in Eclipse IDE

Step-1

Start Eclipse IDE in your machine.

Once you start IDE it will open the below Dialog box and here you choose existing workspace or you can create new workspace by clicking on browse button, then choose the path, and click on Launch button.

Step-2

Now click the **FILE -> NEW -> Maven Project (** Please ensure maven project must be visible else you need to uninstall the eclipse and install again with Enterprise Developer option **)**

After selecting Maven project, again eclipse prompt you screen, where you can create maven project either in default location or create maven project in new workspace.
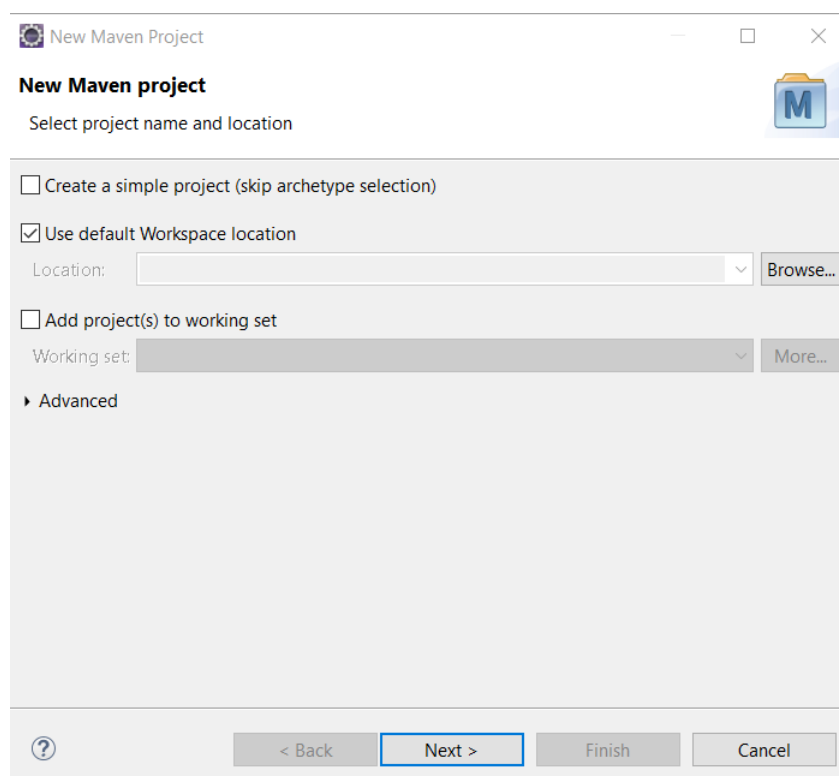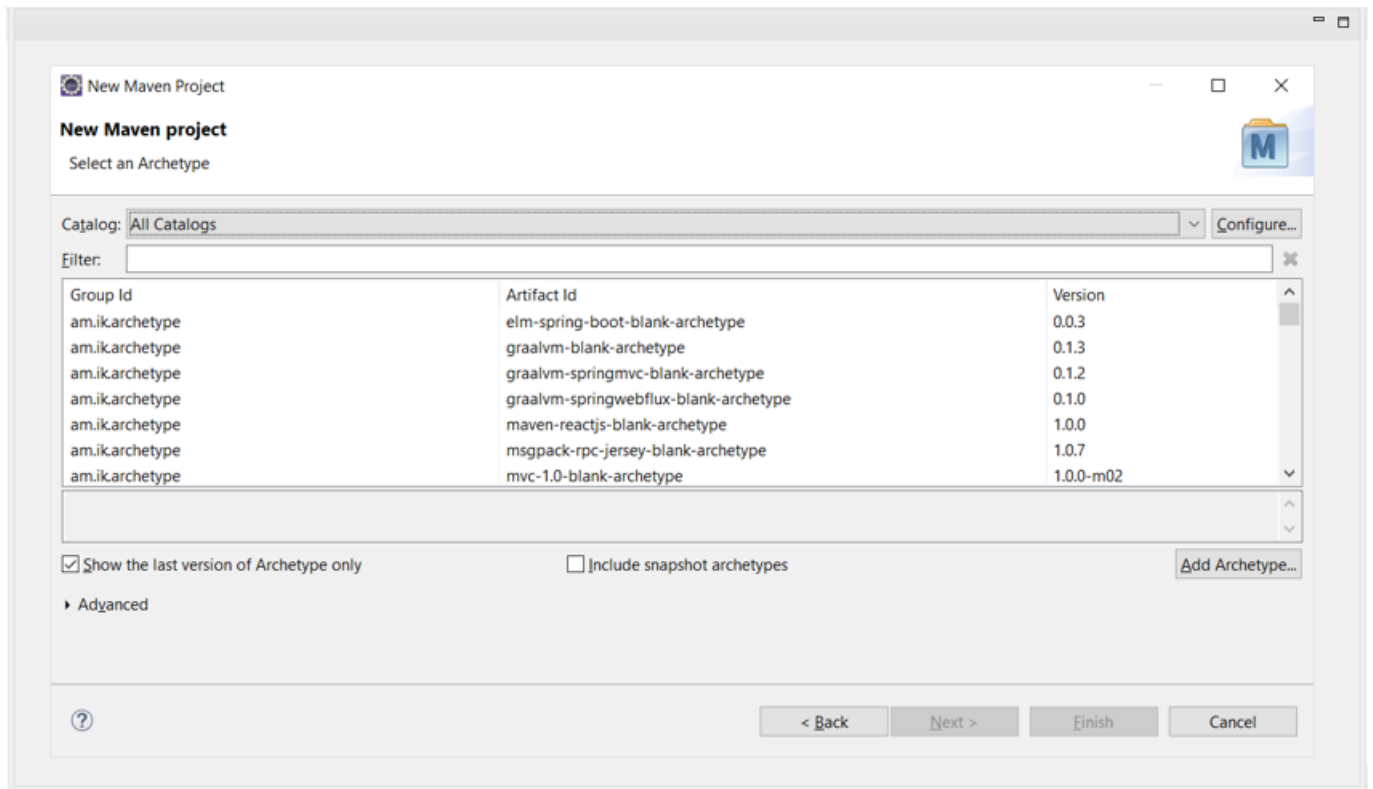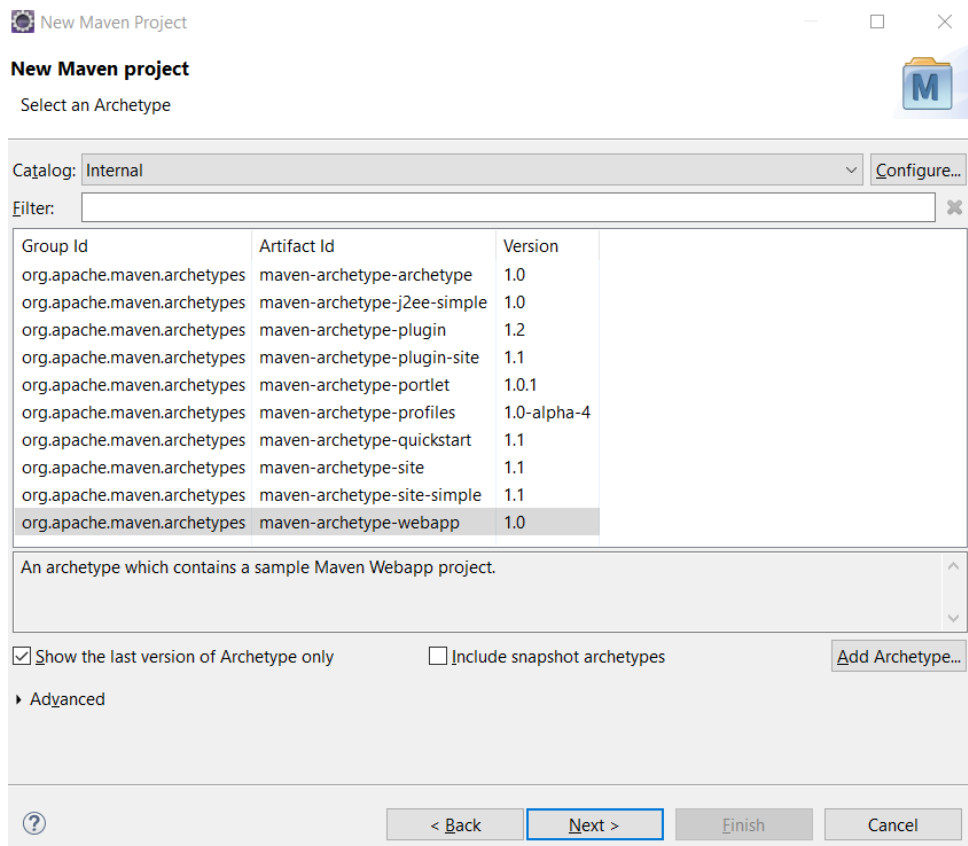

Step-3

Click the next button.

Step-4

After clicked on next button, it displayed the dialog box to choose maven plug-ins.

Here you can change the catalog value from the list according to your application requirement and select appropriate from given list.

Note : Here you can select INTERNAL from catalog list and select the *maven-archetype-webapp*, then click the next.

Step-5

Once you select the *maven-archetype-webapp* from list, it displayed the below dialog box to specify the **Group ID** and **Artifact ID** for the maven project.

Group Id:		⌄
Artifact Id:		⌄
Version:	0.0.1-SNAPSHOT ⌄	
Package:		⌄

☑ run archetype generation interactively

Properties available from archetype:

| Name | Value | | Add... |
| | | | Remove |

▸ Advanced

| ? | | < Back | Next > | Finish | Cancel |

◉ New Maven Project   —   □   ✕

New Maven project

Specify Archetype parameters   **M**

Group Id:	com.paruluniversity	⌄
Artifact Id:	myFirstMaven	⌄
Version:	0.0.1-SNAPSHOT ⌄	
Package:	com.paruluniversity.myFirstMaven	⌄

☑ run archetype generation interactively

Properties available from archetype:

| Name | Value | | Add... |
| | | | Remove |

▸ Advanced

| ? | | < Back | Next > | Finish | Cancel |

Step-5

Click on Finish button

Once you click on finish button, wait sometime to get complete the new Maven project. During project creation it prompt you to confirm **Group ID** and **Artifact ID** confirmation to take it forward for next step.

Here you respond either **Y** or **N**

```
groupId: com.paruluniversity
artifactId: myFirstMaven
version: 0.0.1-SNAPSHOT
package: com.paruluniversity.myFirstMaven
 Y: :
```

Once you respond **Y,** it will create a new maven project in eclipse.

```
[INFO] ------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------
[INFO] Total time:  06:38 min
[INFO] Finished at: 2024-07-03T19:15:05+05:30
[INFO] ------------------------------------------------------------------
```

Project Structure

- myFirstMaven
  - Deployment Descriptor: Archetype Created Web Application
  - Java Resources
    - src/main/resources
    - Libraries
  - Deployed Resources
  - src
    - main
      - resources
      - webapp
        - WEB-INF
          - web.xml
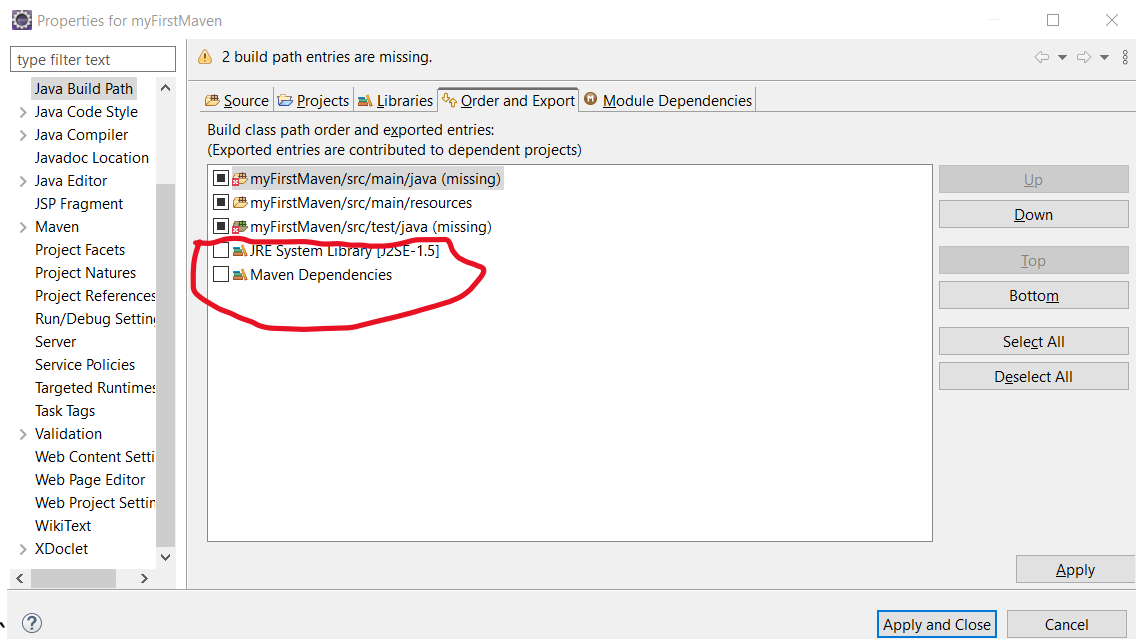   - index.jsp
  - target
  - pom.xml

Step-6

Here your project structure has some missed folder which you need to configure by using below steps.

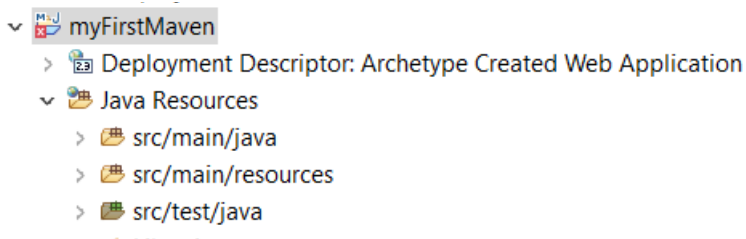1. Right click on project and select the **Configure build path**.
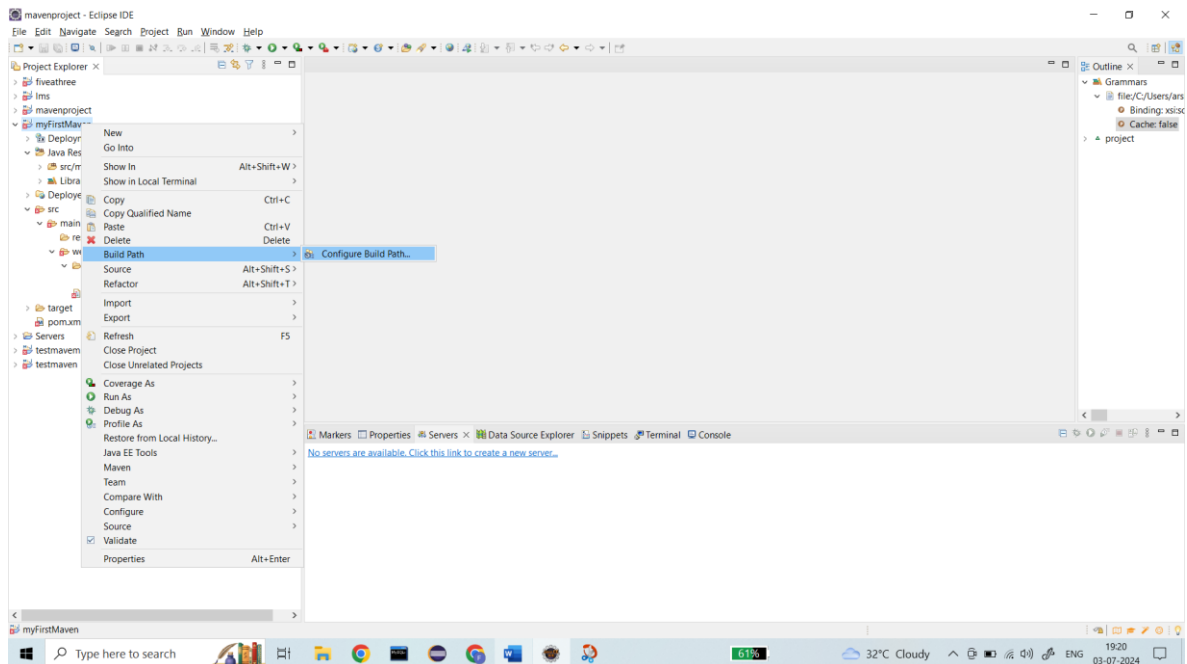
It displays the below screen to add / configure the require folder for the maven project.
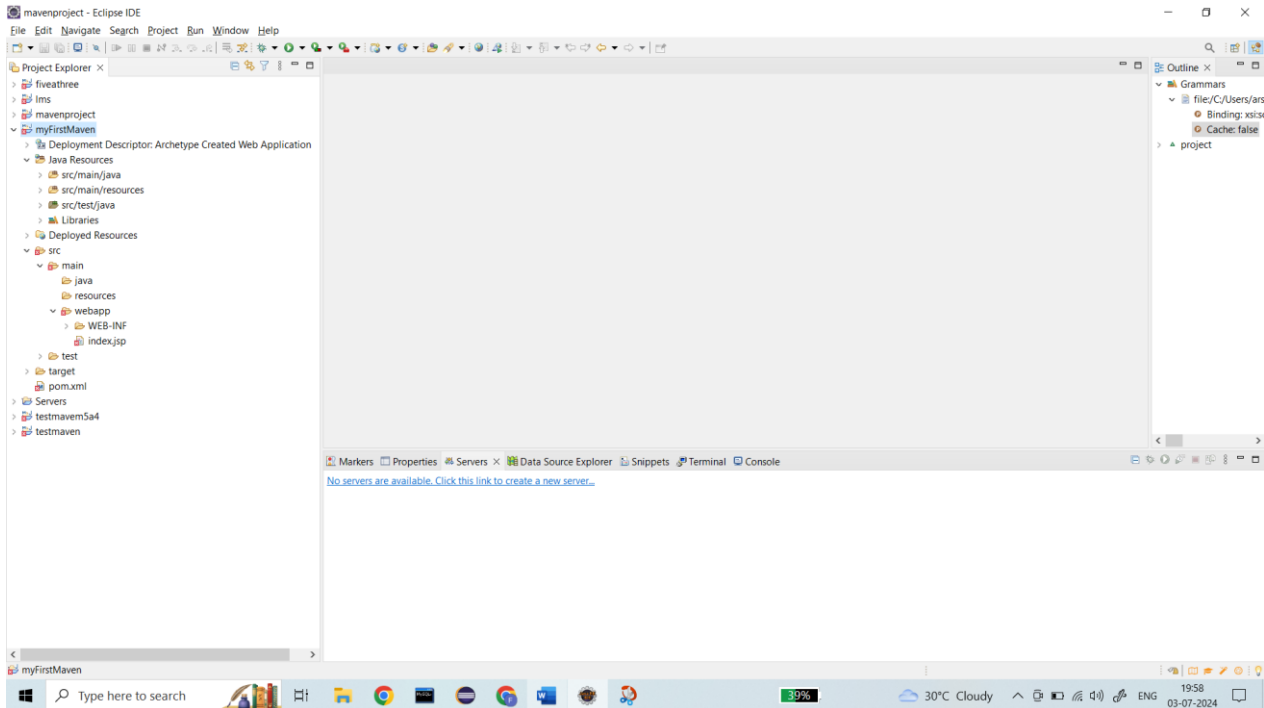Select both check boxes -> **APPLY -> APPLY CLOSE**

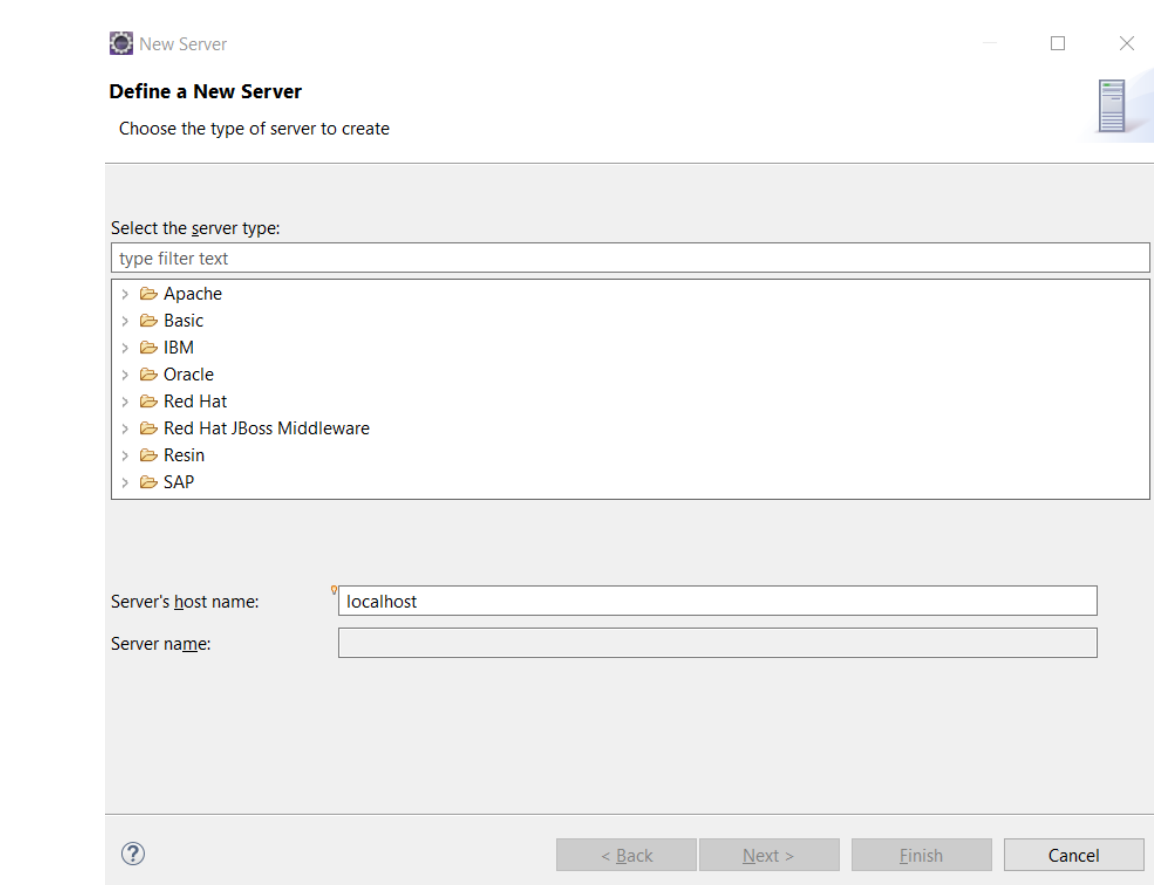Now current project configured the missed folder.
SRC/MAIN/JAVA and SRC/TEST/JAVA
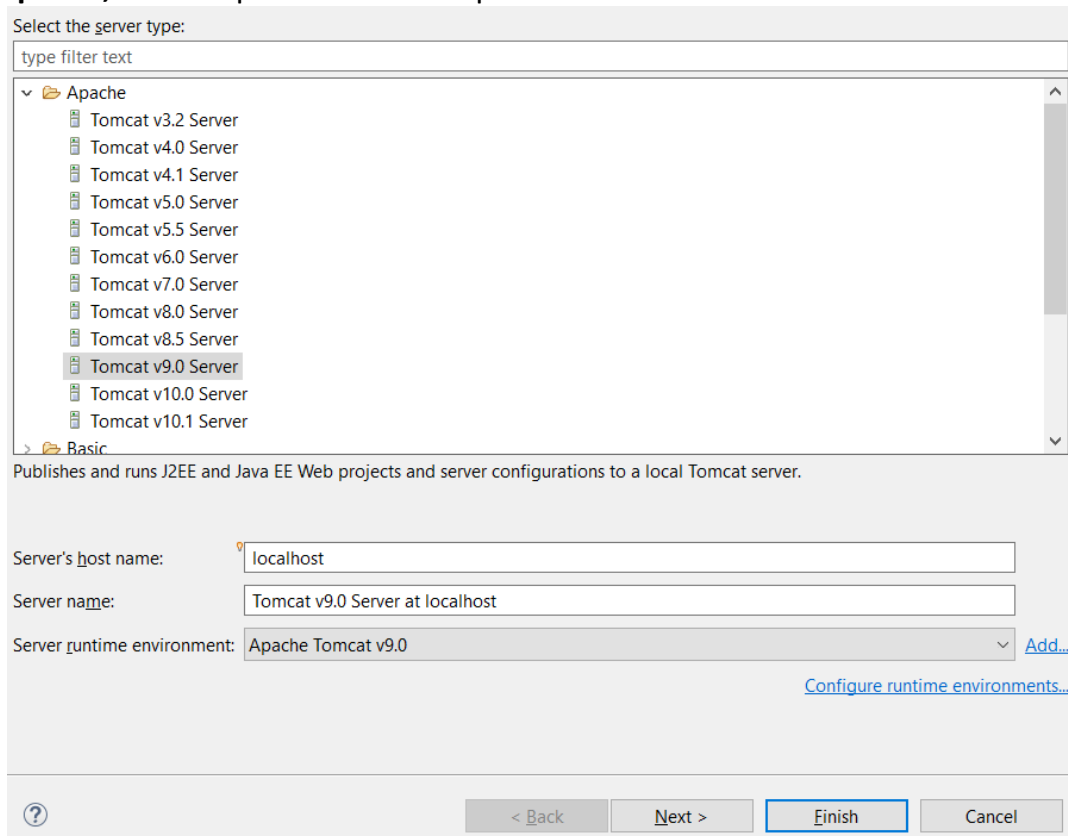
Step-7

Next configure the maven project on Apache web server.

Click on link (**no servers are available, click this link to create a server**)

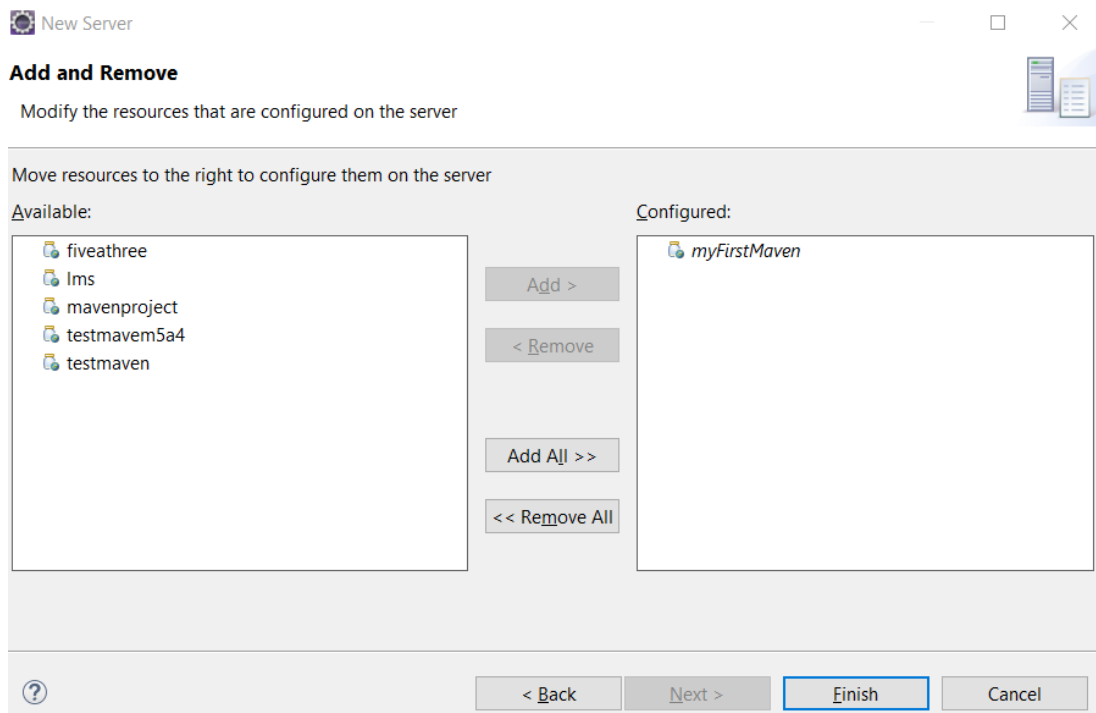It displayed the below screen to select the required server for the project.

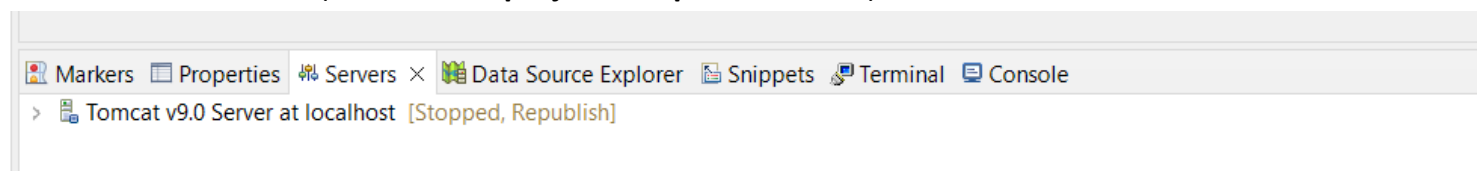Now **click on Apache,** it will expand the list of Apache version.

Step-7

Click Next to configure the project on Apache server.

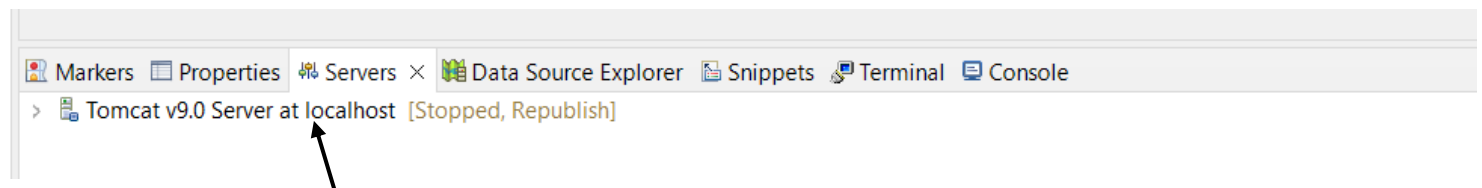Here you need to select one or more projects from available project and **click on ADD** button to configure the project on Apache server.

Step-7

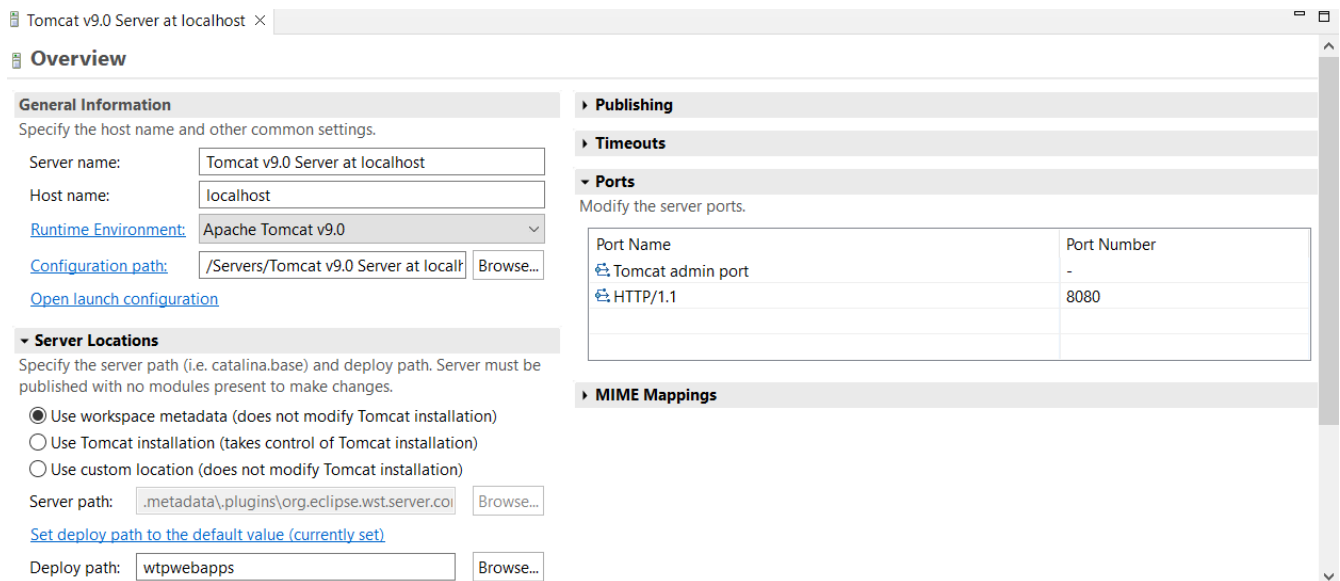Click on Finish button (**ADDED the project to Apache Server**)

Step-8

Now you need to configure **PORT numbers** (Tomcat Admin Port and HTTP port) for running a maven project in browser.

Double click on Tomcat v9.0 Server at localhost (Stopped Republish)
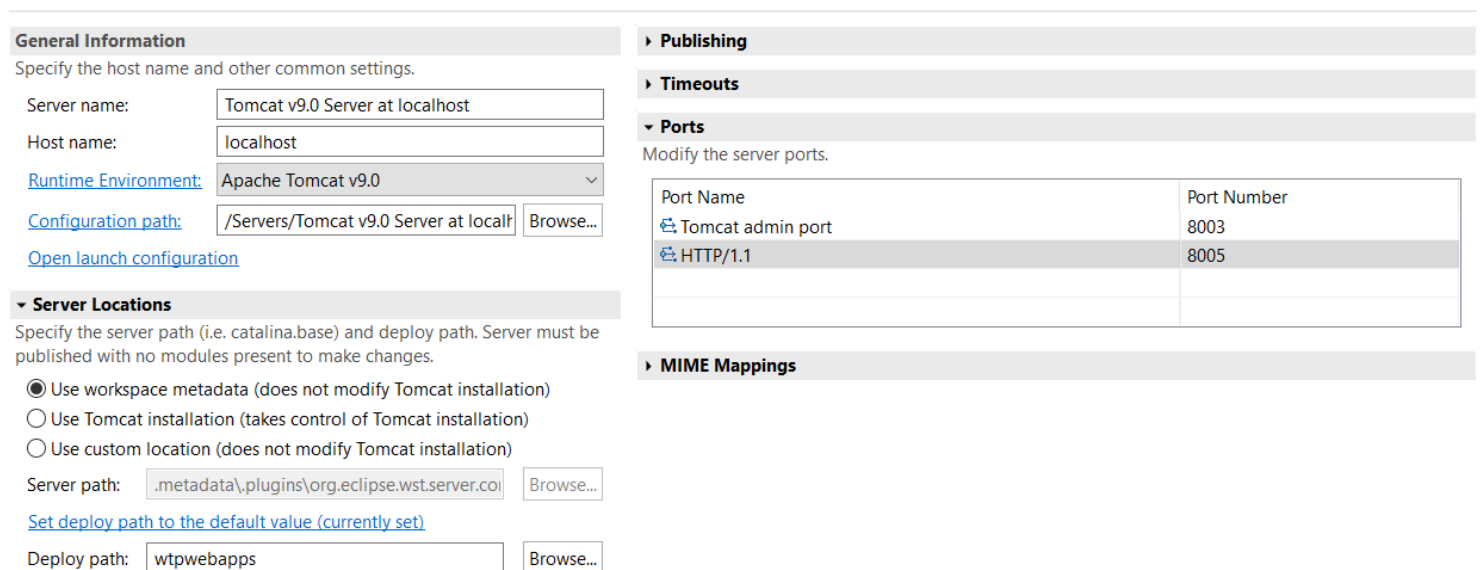
It displayed the below screen….

Now click on **PORTs (it collapses details) then click again on PORTs (It expand the port details).**
Then you can change the port number.
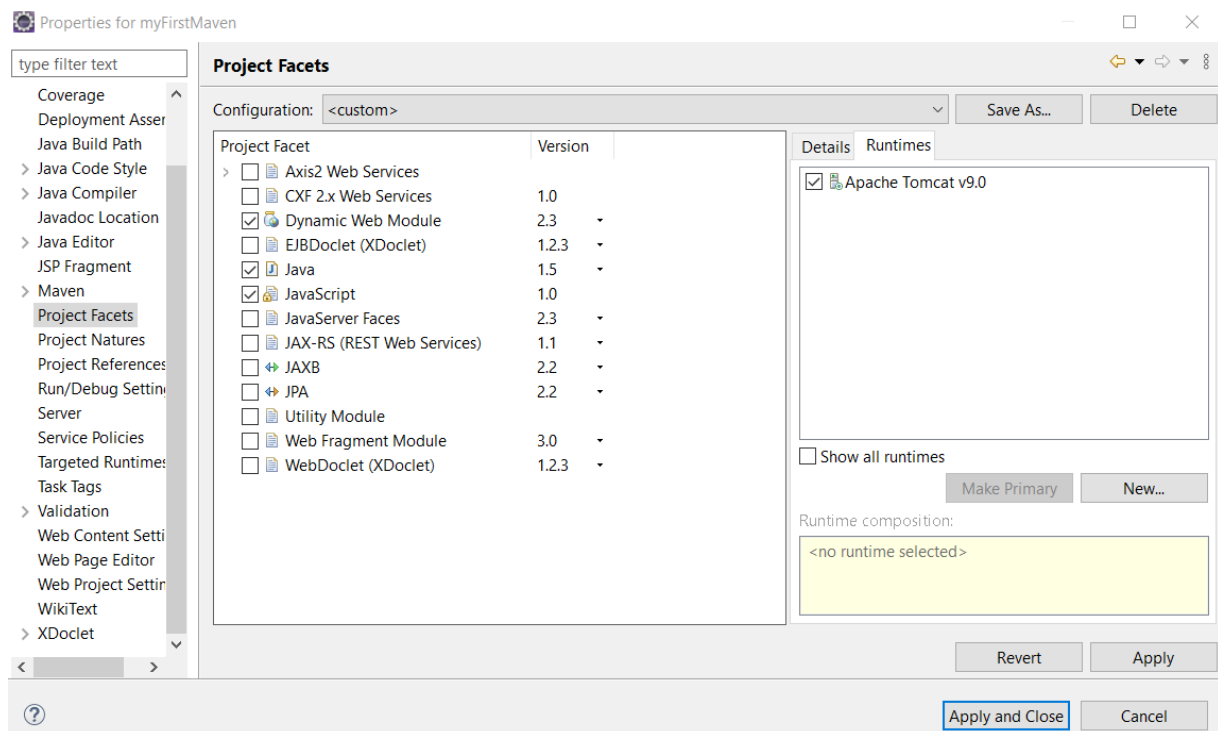**Ensure configure port must be available.**

Once it is done, **please ensure server details must be saved**

Step-9

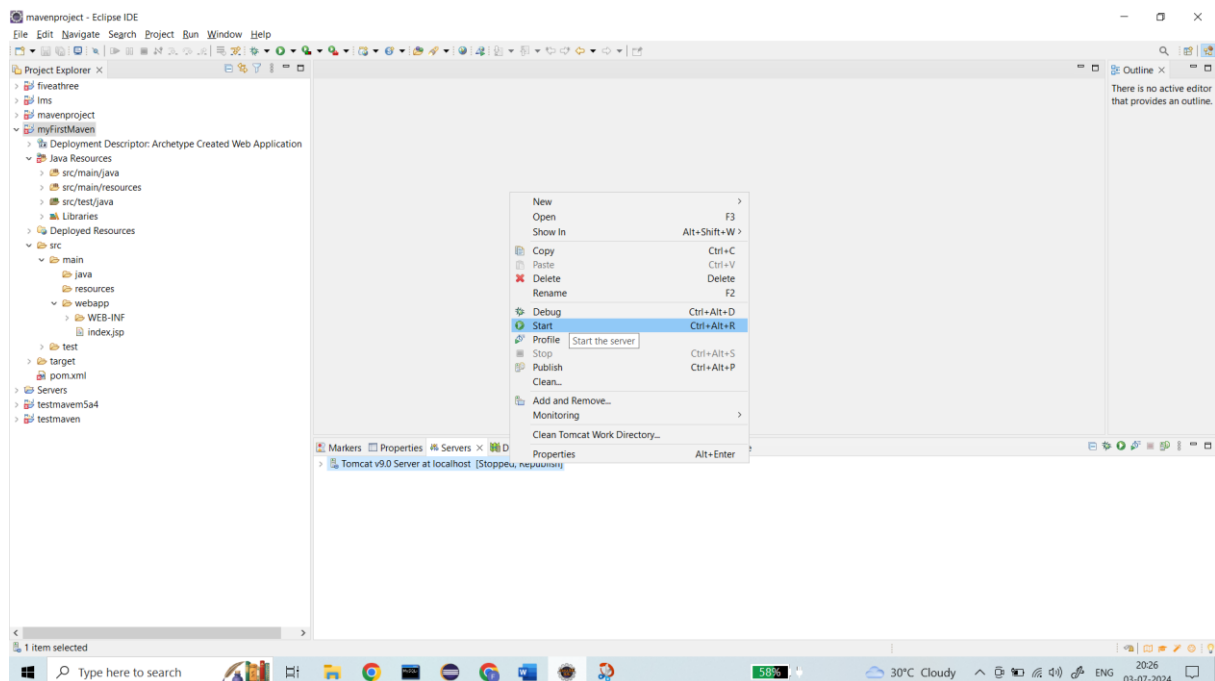Next to set the project facet property -> Runtime using project property.

For that you need to **select project -> Configure Build Path -> Project Facets -> Runtime**
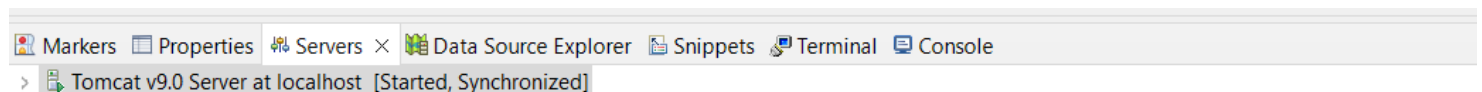

Now click on **APPLY and APPLY and CLOSE button.**

Step-10

Now select the **configure server from TAB and Right click** -> then select the **Start** option.
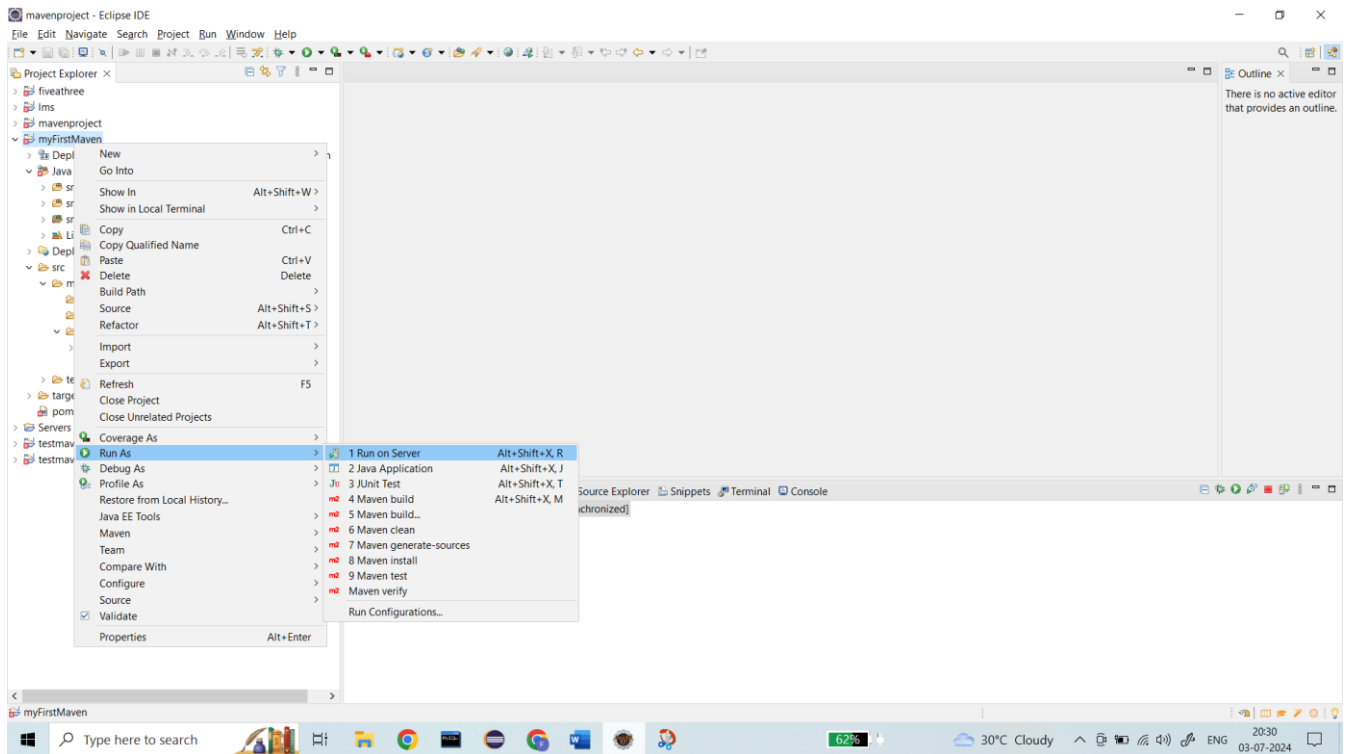

Once server start successfully, it displayed the below screen.
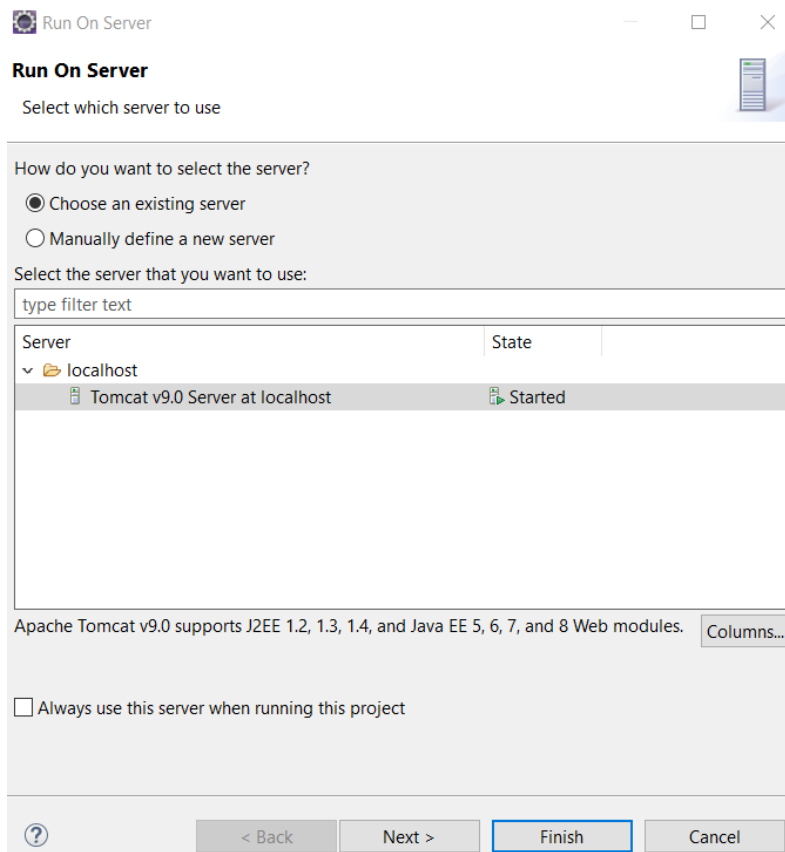
Step-11

Now Run the project.
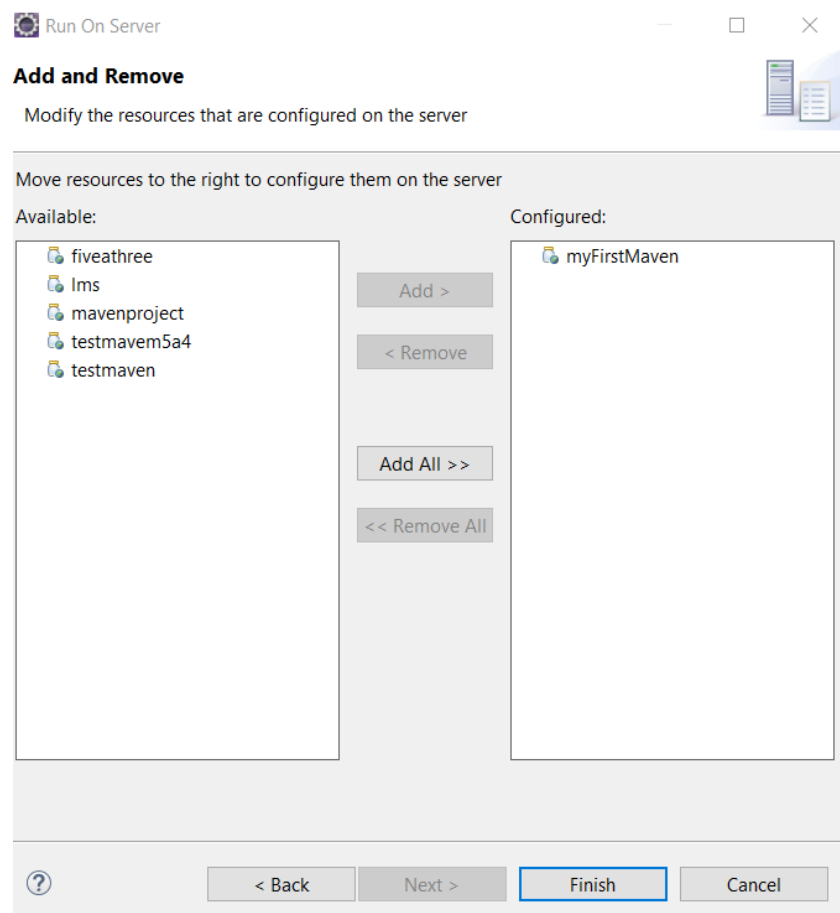
Select the **Project -> Run As -> Run on Server**

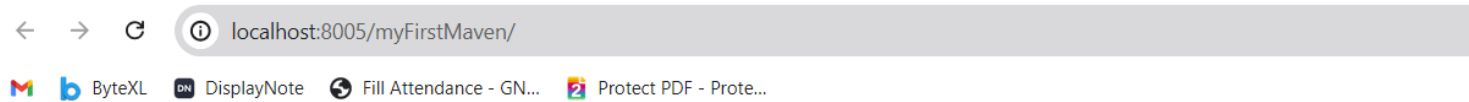Once you click on Run on Server, It displayed the below screen (**Ensure to select the configured Server).**

Click on NEXT Button.

Once you click on NEXT button, it displayed the below screen.

Once you click on **FINISH** button it will render the below output in browser.

Hello World!