**Requirements**:

* MySQL Workbench (<https://www.mysql.com/products/workbench/>)
* Java SE 17\* (<https://www.oracle.com/java/technologies/javase/jdk17-archive-downloads.html>)
* Eclipse IDE for Enterprise Java and Web Developers\*\* (<https://www.eclipse.org/downloads/packages/release/2022-06/r/eclipse-ide-enterprise-java-and-web-developers>)
* GitHub Account

\*note version 17.0.4.1 was used in this example, but other versions of 17 might work

\*\*note version 2022-06 was used in this example but other versions around the same version or newer might work

**Post Installation of Requirements**

**Importing the Project Start**

* After installing the program requirements, launch the Eclipse IDE and select/create a location for your workspace to be stored with the **Browse...** option and then select **Launch** when the workspace has been set.
* Navigate to the top tool bar to the **File** option and select **Import…** as shown below.

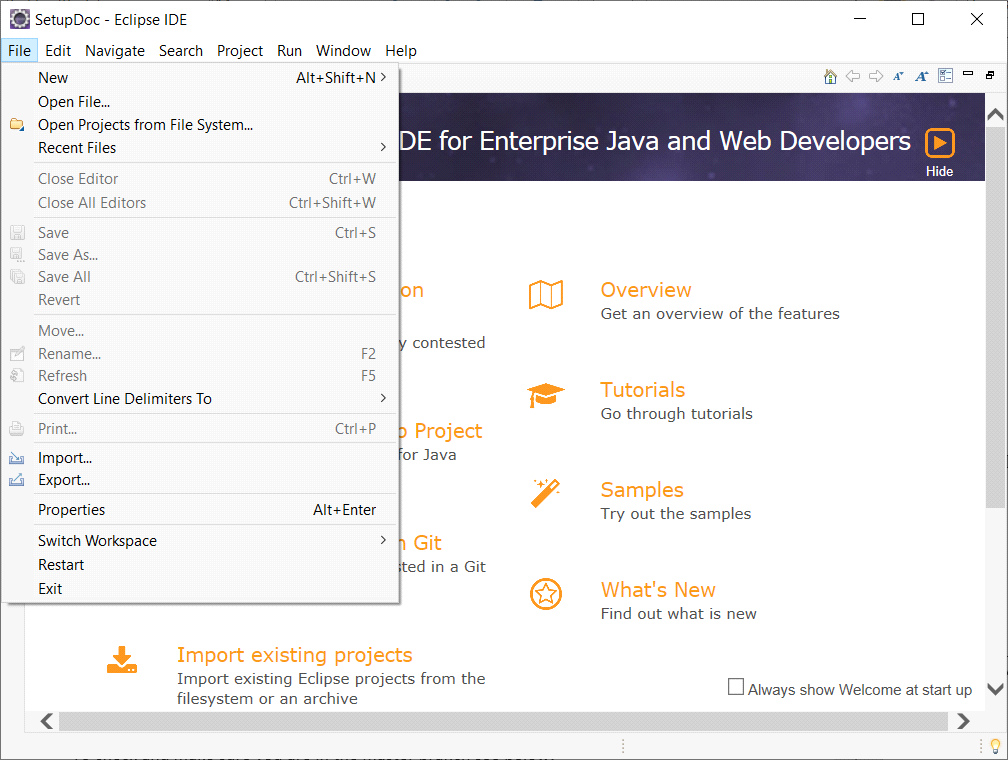


Figure 1 – Eclipse Home View

**Importing the Project with Smart Import**

* Once you’re in the import window, click the **Git** folder arrow to expand what’s inside and select **Projects from Git (with smart import)** as seen below.

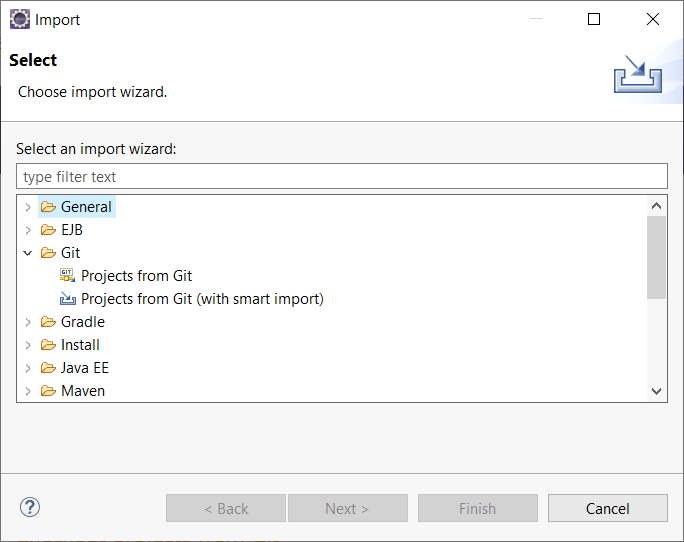


Figure 2 - Import Github Project View

* In the **Import Projects from Git** windows, select **Clone URI** and press next
* In the next section, navigate to the GitHub, login, generate a code, and go to the project’s specific page and press on the green **Code** button and copy the URI from there. A visual of what to see is shown below.
* Next, take that URI and paste it into the URI text box and the rest will automatically fill in, an example of what it should look like is displayed below.

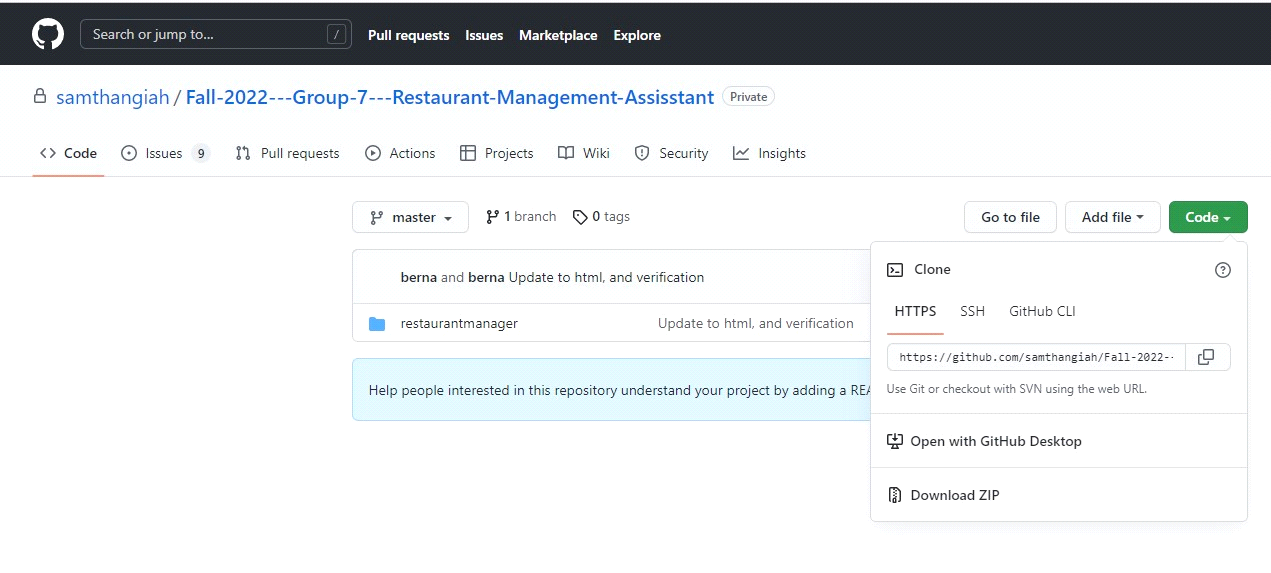


Figure 3 - Github Project View

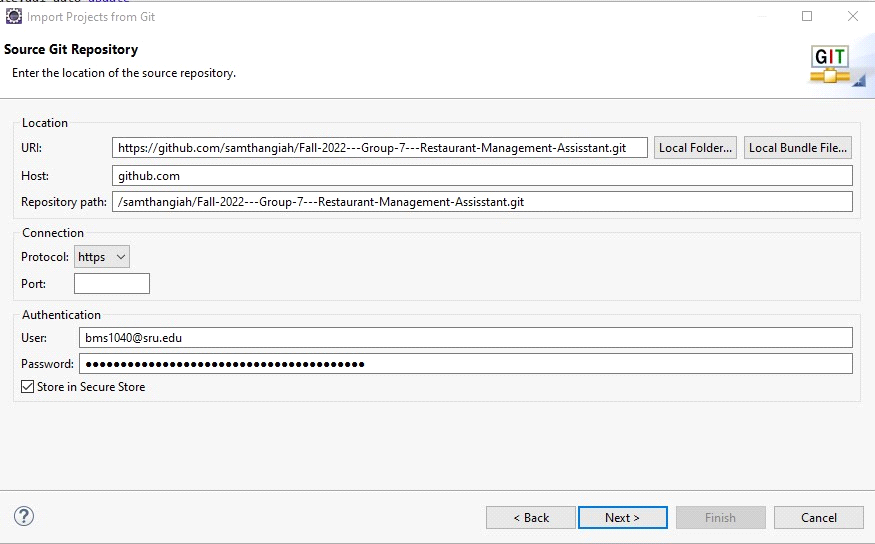


Figure 4 - Import Repository View

* Select **Next** and on the new page, search for the branch **master** and select **Next** once more. You’ll be taken to a page where you must select the directory of the destination of the GitHub files. Either leave it as the default location or user **Browse** to manually choose where to place the files.
* After having a directory for the GitHub files selected, continue with the **Next** button and wait for everything to be downloaded. Select **Finish** once you have the opportunity to do so.

**Importing the Project Manually**

* Once you’re in the import window, click the **Maven** folder arrow to expand what’s inside and select **Existing Maven Projects** and press **Next** as seen below.

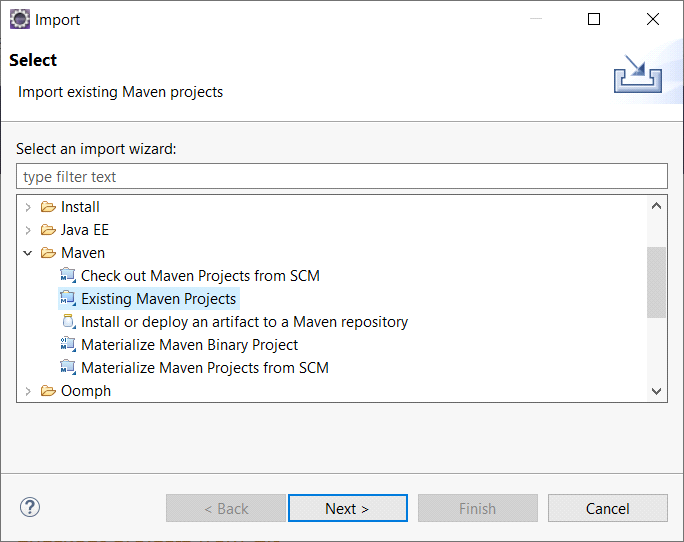


Figure 5 - Manual Import View

* You must download the zip file of the master branch of the project by going to the GitHub page for the project and clicking on the green **Code** button and pressing **Download ZIP** button. Once the download is complete, you must unzip the file into a folder with your decompressing program of choice (Winrar, 7zip, etc). There is a built-in unzipping ability Windows has, but look elsewhere for more information on how to unzip a file on the internet.

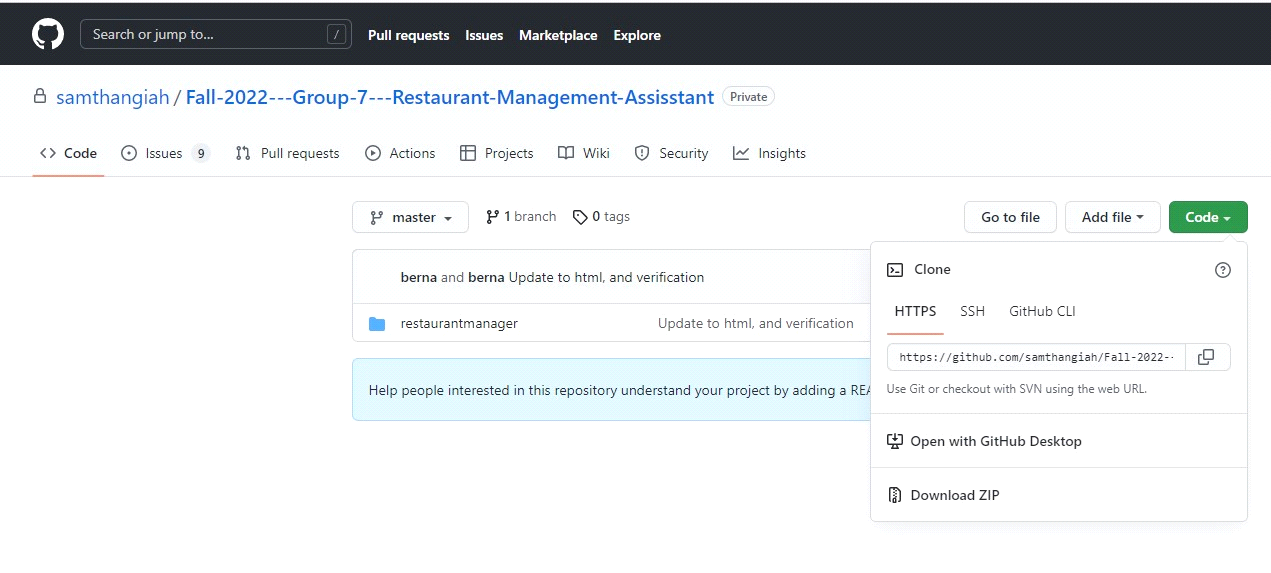


Figure 6 - Download Project View

* On the next page, you’ll need to press the **Browse…** next to the **Root directory** box in order to choose the unzipped folder that you previously downloaded from the GitHub. Once that the project folder has been selected, press **Finish**

**Viewing the Packages**

* In order to view the project’s packages, press the **X** right next to the **Welcome** tab in the top left corner or go to the top tool bar and press **Window** then **Show View** then **Other** in order to bring up a window.

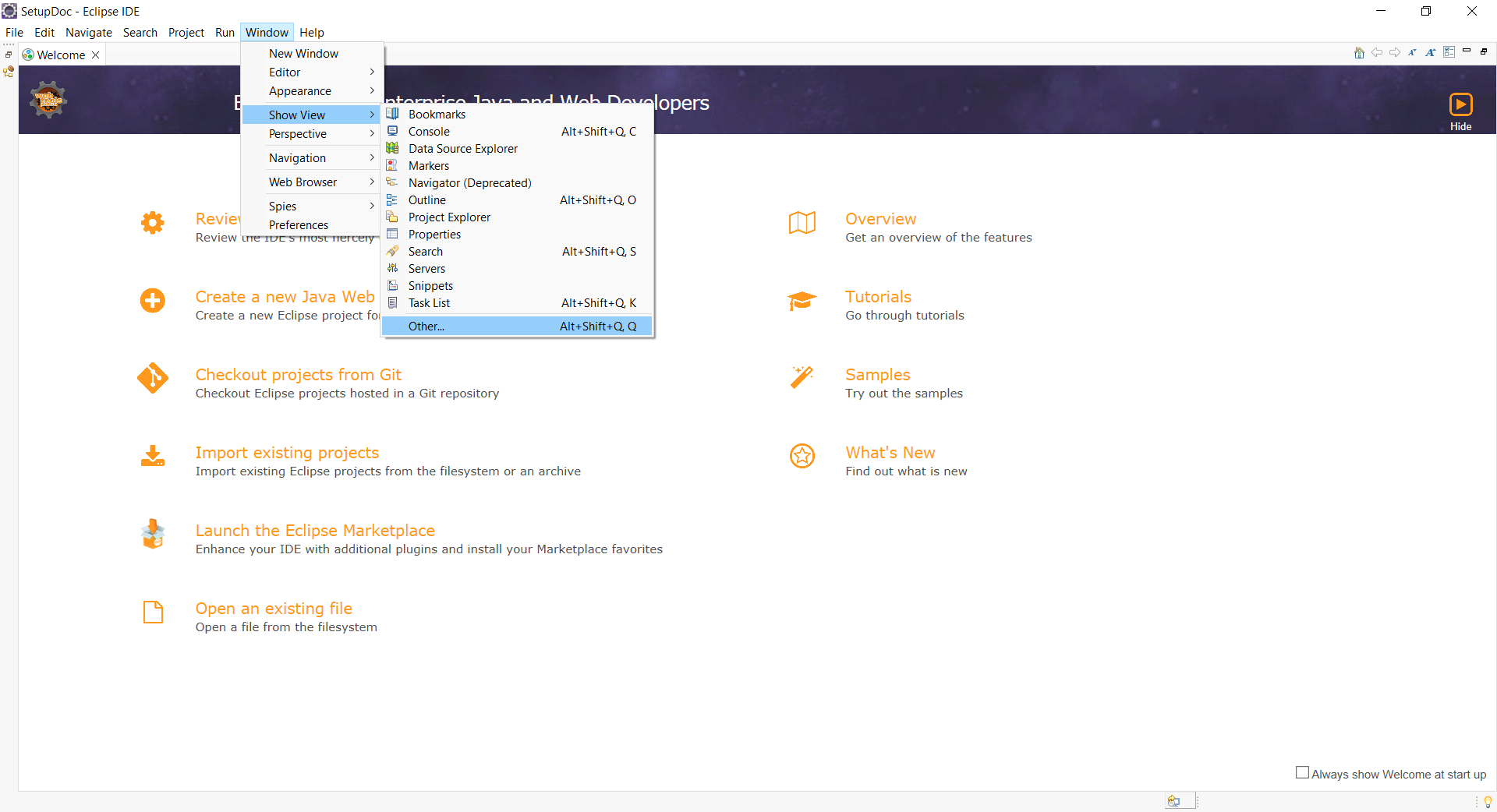


Figure 7 - Eclipse View Options

* A **Show View** window will display, and you must search for a folder named **Java** and expand it with the arrow right next to it to display the folder’s contents. Select **Package Explorer** and press the **Open** button.

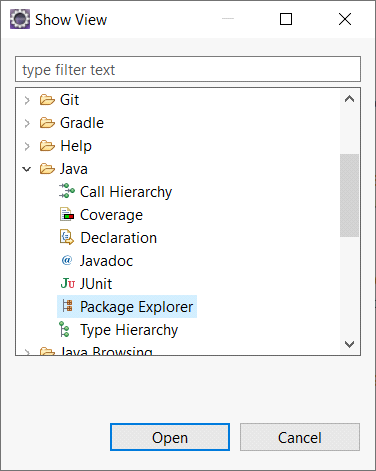


Figure 8 - Package Explorer Selection

**Resolving Build Errors**

* If you come across errors in the **Markers** tab located near the bottom of the program, that’s like due to the fact that Java SE 17 wasn’t selected as the default version.

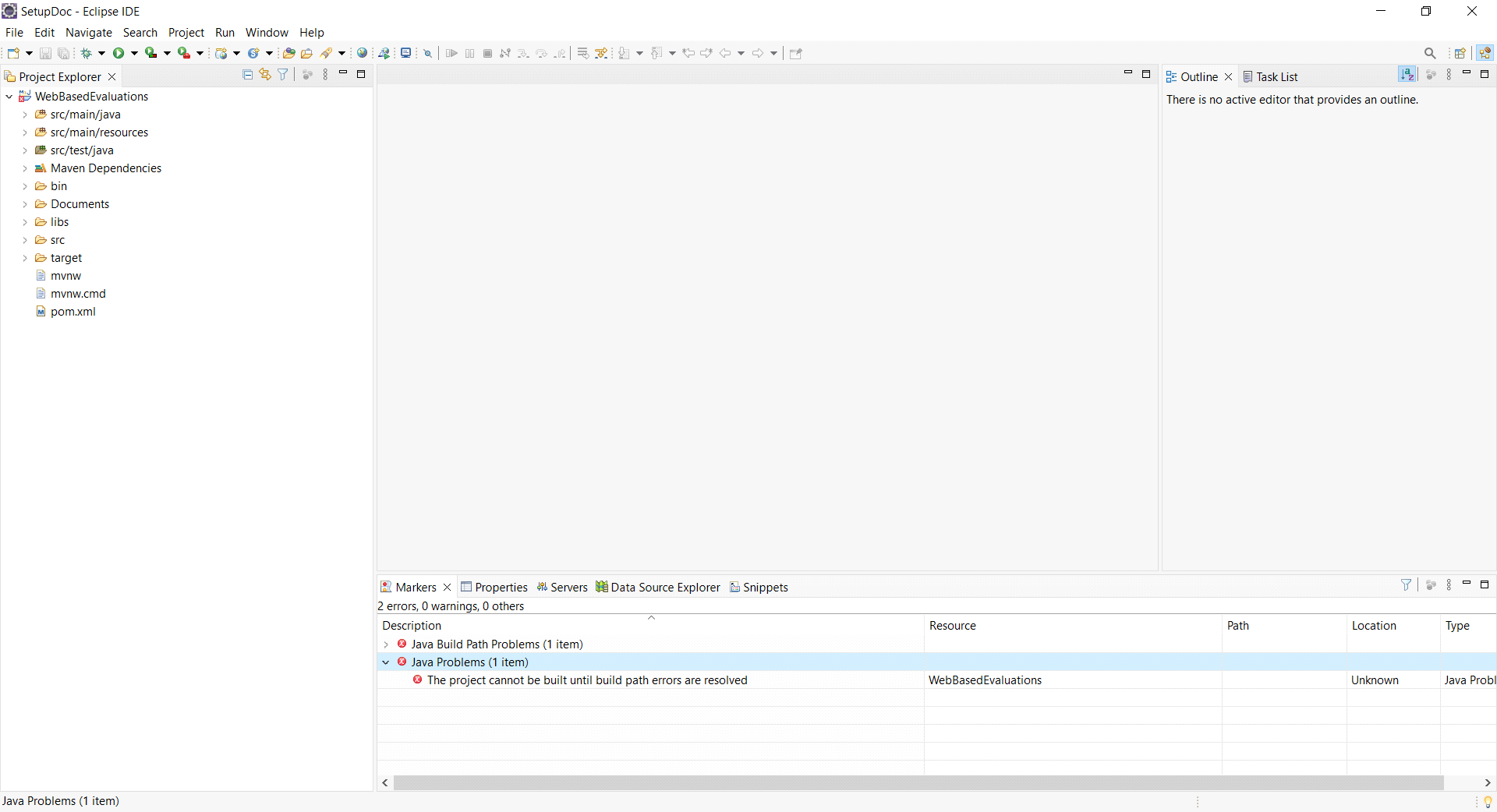


Figure 9 - Java build errors

* Right click on the project in either the **Project Explorer** or **Package Explorer** and select **Properties.**

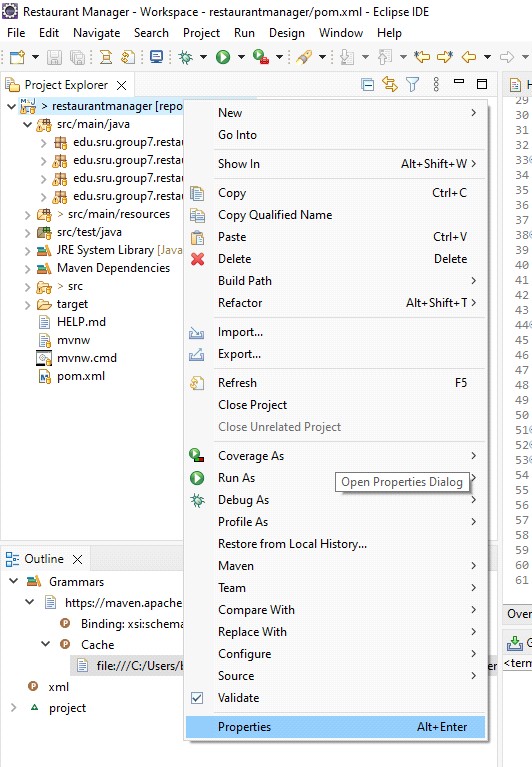


Figure 10 - Eclipse Properties

* Then on the right side, select **Java Build Path** and from within that newly opened area press **Libraries.**

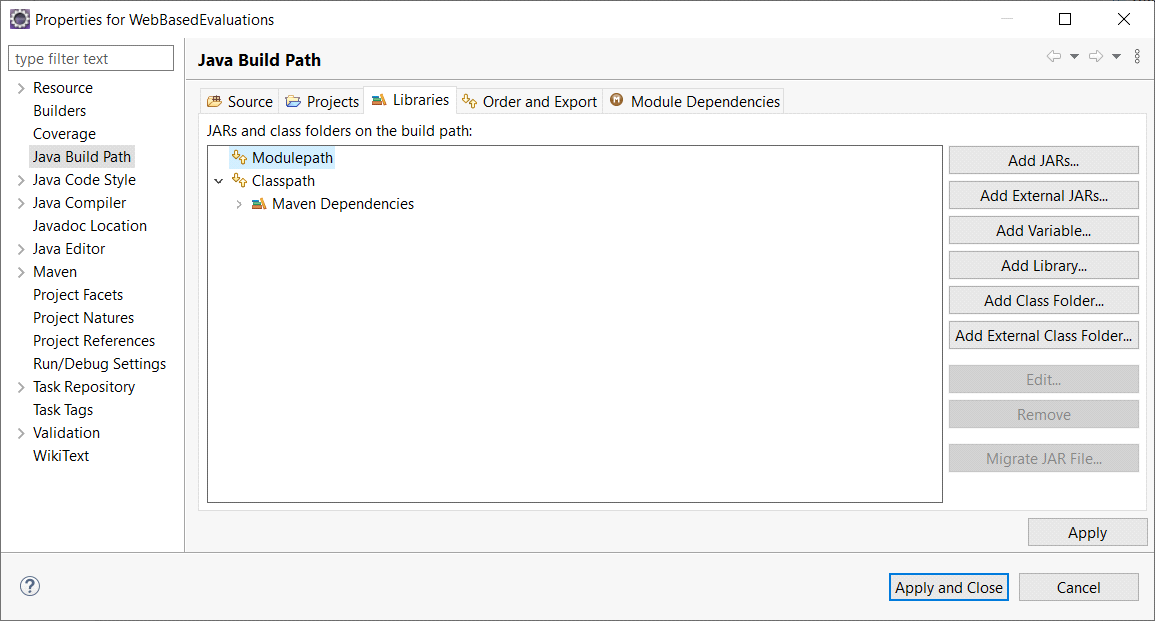


Figure 11 - Java Build Path View

* From with the **Libraries** tab, select **Modulepath** and press **Add Library…** located to the left to bring up a new window.
* From the **Add Library** window, select **JRE System Library** and press **Next.**

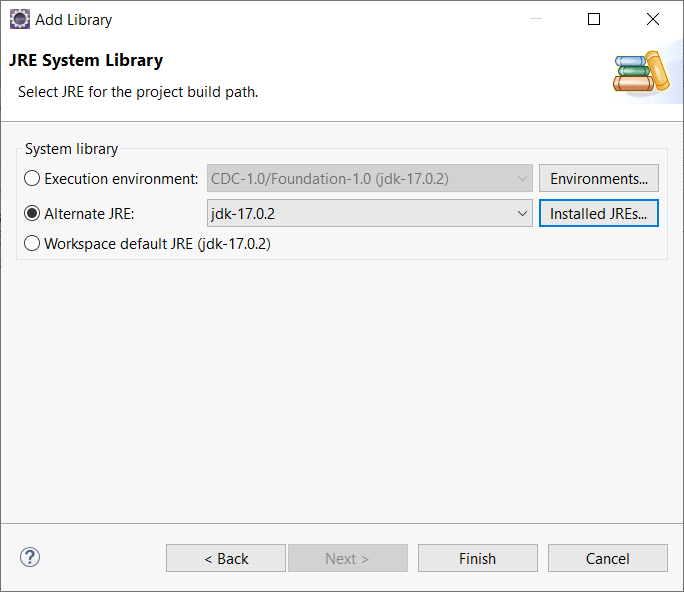


Figure 12 - JRE Selection

\*note version 17.0.2 is shown, but 17.0.4.1 was used.

* Once you’re on the **JRE System Library** part, select **Alternate JRE:** and press the **Installed JREs…** button to the right of it. That will bring up a new window.

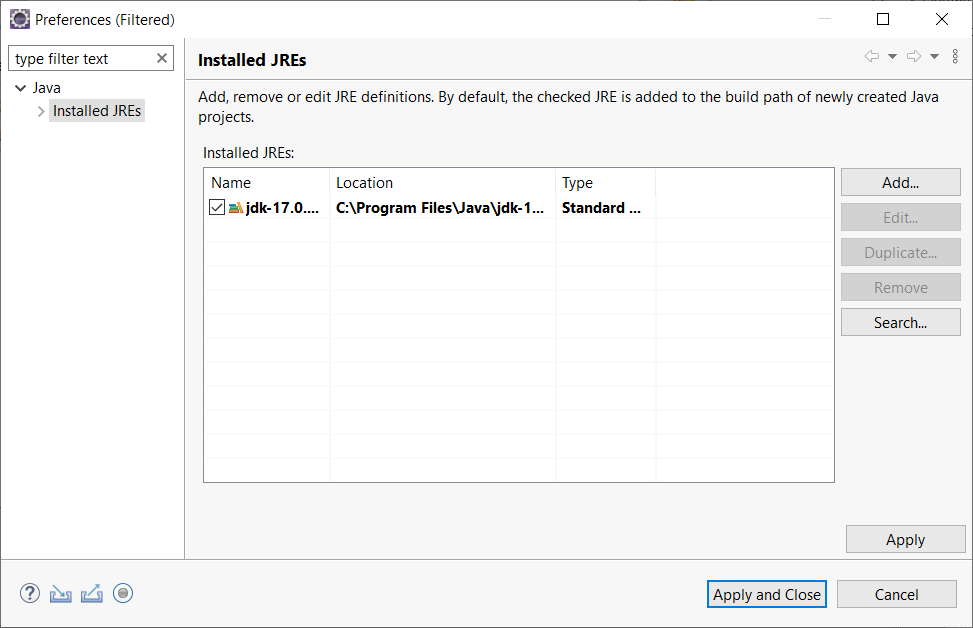


Figure 13 - Installed JRE's

* From this new window, press the **Add…** button located on the right. A new window will pop up, named **Add JRE** where you will select **Standard VM** and press N**ext.**
* After pressing the next button, a you’ll see a **JRE home** box with a **Directory…** button to the right of it, press the **Directory…** button and select the folder that contains jdk-17. The location of it can vary, but if the jdk is installed from an installer, then it will likely be in C:\Program Files\Java.

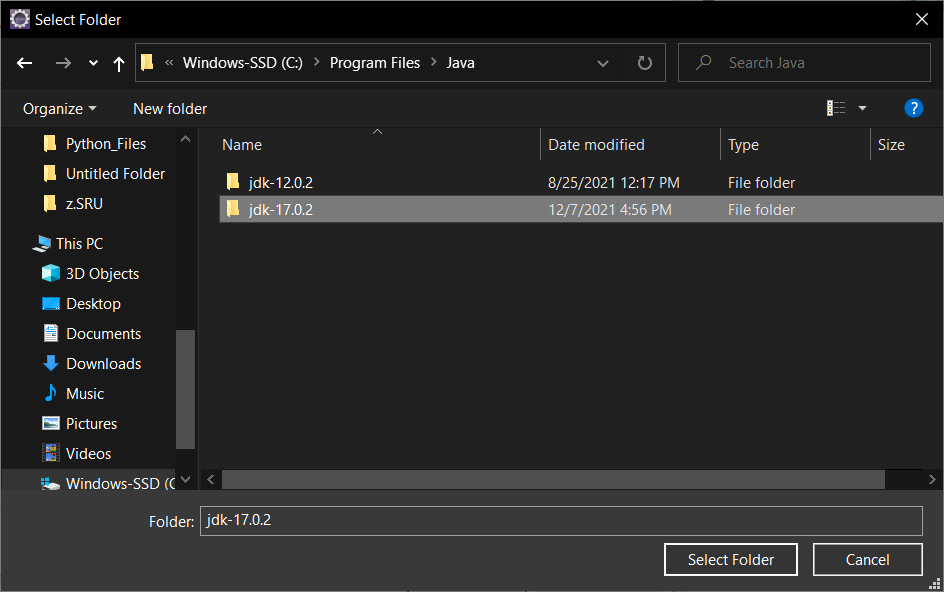


Figure 14 - JDK selection

\*note version 17.0.2 is shown, but 17.0.4.1 was used.

* After selecting the folder with the **Select Folder** button, you should be able to close out of everything with a series of **Finish** and **Apply and close** buttons.

**STARTING MYSQL:**

* Install and set up MySQL Workbench, which can be done from following this tutorial geeksforgeeks.org on: <https://www.geeksforgeeks.org/how-to-install-sql-workbench-for-mysql-on-windows/>
* After setting up the MySQL Workbench, you need to go into the Java project and go to **src/main/resources** folder (or into **src** then **main** then **resources)** to edit the **applications.properties** file.

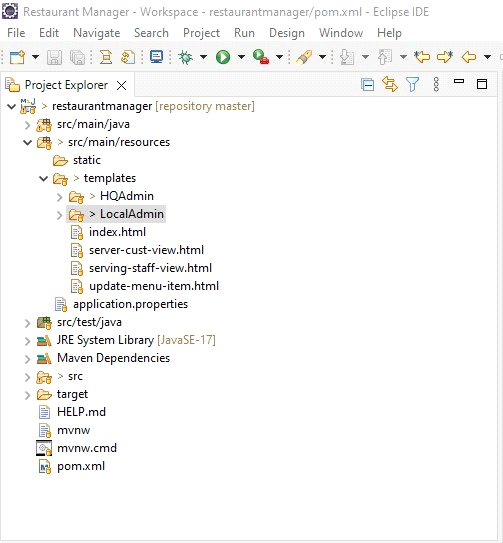


Figure 15 - Project Application Properties Location

* Upon opening the file, which can be done by double clicking it the following lines must be changed:

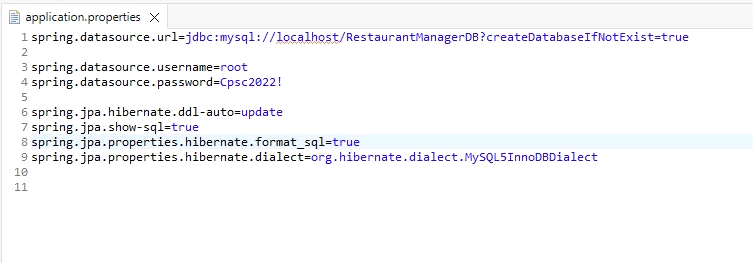


Figure 16 - Application Properties

* Set the “spring.datasource.username” and “spring.datasource.password” to your respected MySQL server’s username and password and save the changes by pressing “ctrl” and “s” at the same time or holding “ctrl” down and pressing “s”.

**Adding Sample Data:**

All sample data will auto-generate for you at runtime.

**Login:**

Sample logins for each role: (username, password - ROLE)

sam, thangiah - HQADMIN

hqmanager@email.com, pass - HQMANAGER

Administrator@email.com, pass - ADMIN

WHmanager@email.com, pass - WAREHOUSEMANAGER

Manager@email.com, pass - MANAGER

server@email.com, pass - SERVER

customer@email.com, password - CUSTOMER