

## INSTRUCTIONS TO INTALL THE APPLICATION

### I. SOFTWARE NEEDED

The application is build using Java, Eclipse, MySQL, and Maven

The software needed:

#### 1. Java SE Development Kit 8

<https://www.oracle.com/java/technologies/javase/javase-jdk8-downloads.html>

#### 2. Eclipse IDE

<https://www.eclipse.org/downloads/>

#### 3. MySQL

<https://dev.mysql.com/downloads/installer/>

The application connects to the database server using [Connector/J](#) package. Therefore, this package has to be included in the installation process of MySQL.

#### 4. Maven

The version of maven using in this project is Maven 3.6.3 which can be downloaded using the following link:

<https://maven.apache.org/download.cgi>

The link below is the instructions for installing Maven:

<https://maven.apache.org/install.html>

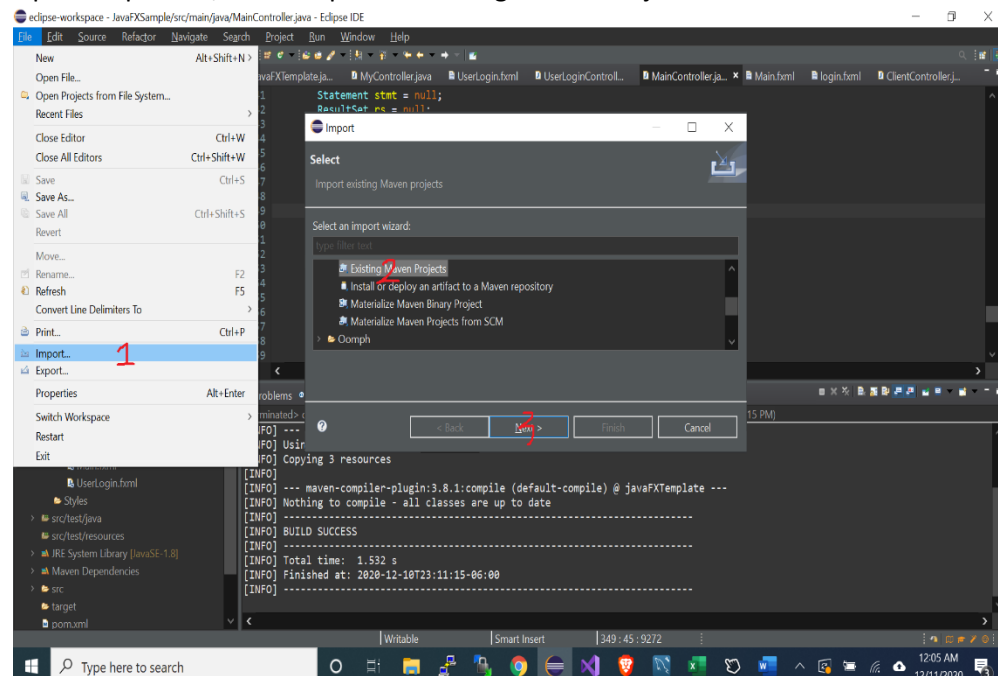
### II. INSTALLING THE APPLICATION

The Java code for the application is located in JavaFX\_MavenTemplate folder in Application folder. The dependencies needed for the connector/J package to work is already included in the pom.xml file.

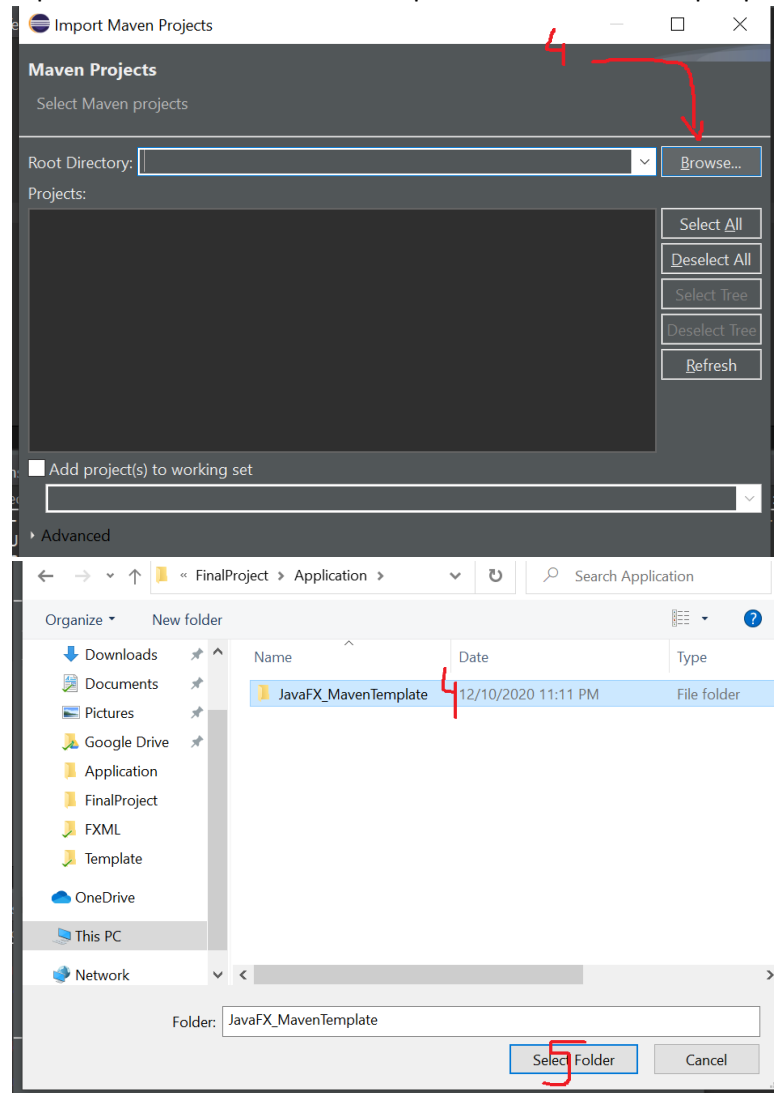
There are 2 methods to compile and run the application:

#### **Method1:**

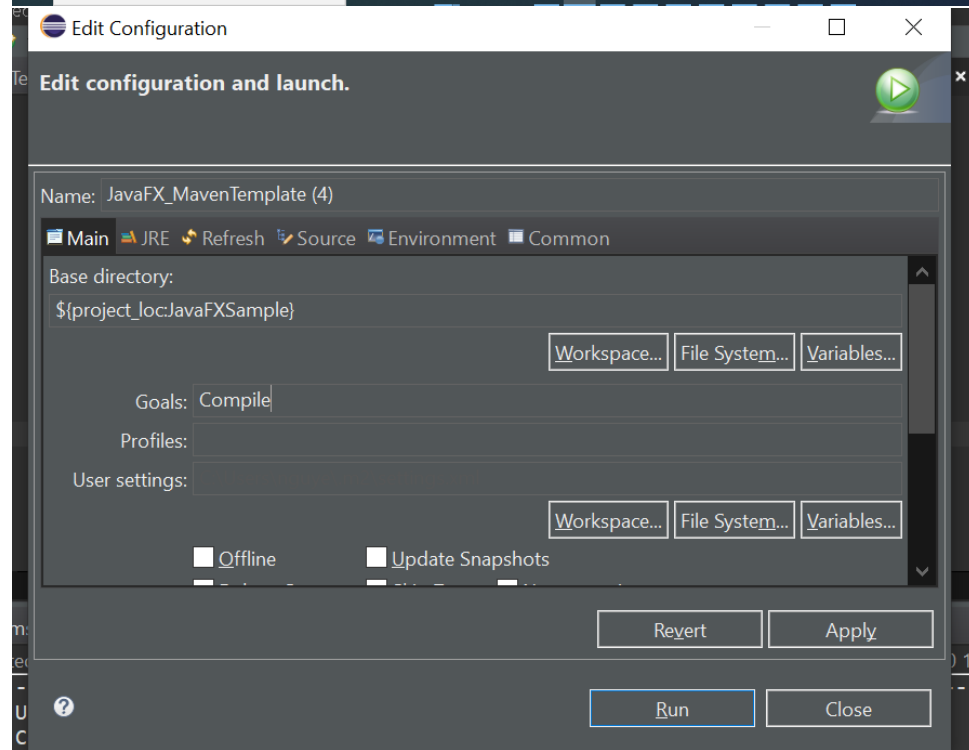
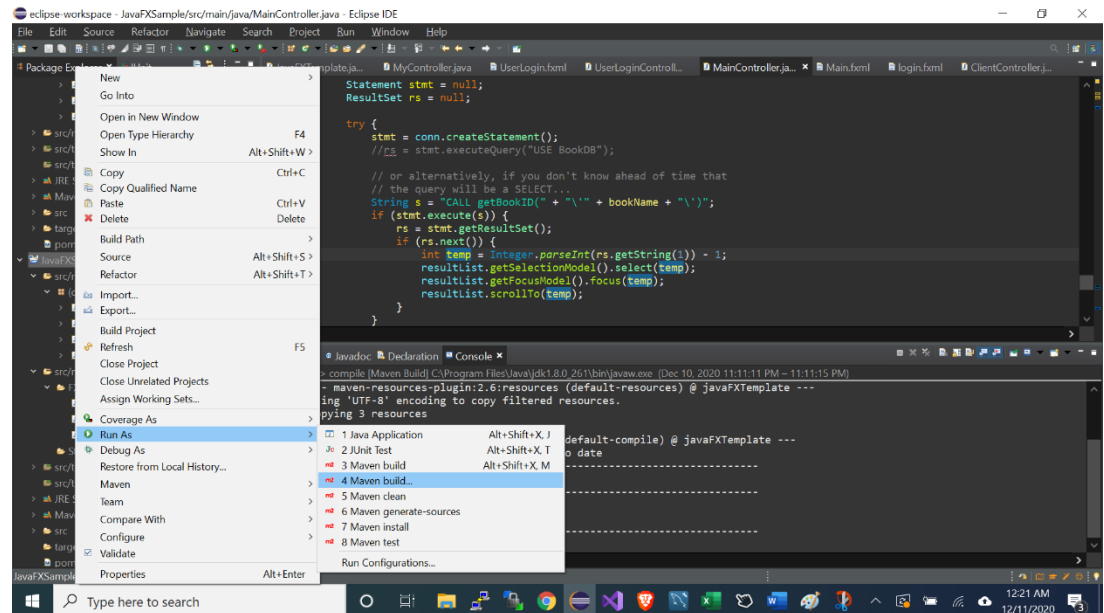
Open Eclipse IDE, File-> Import -> Existing Maven Project -> Next



Find the folder JavaFX\_MavenTemplate in Application folder of this project and import it to Eclipse. A folder named JavaFXSample will be added to Eclipse project list.



Right click to JavaFXSample folder -> Run As -> 4 Maven Build... -> In Goal field, enter “compile” -> Run. The project will be compiled



Right click to JavaFXSample folder -> Run As -> 4 Maven Build... -> In Goal field, enter “exec:java” -> Run. This will run the application.

### Method 2:

Open the terminal, direct to the folder JavaFX\_MavenTemplate in Application folder of this project folder.

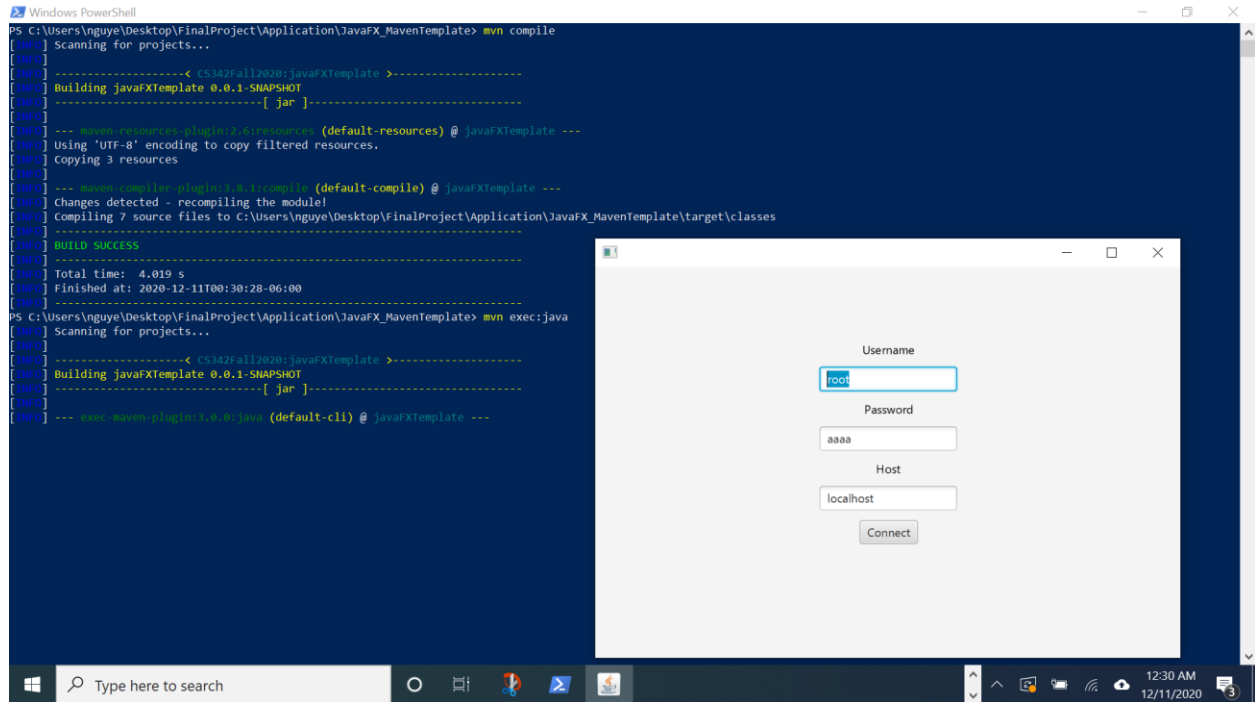
Run commands to compile and run the application using Maven:

To compile the project:

`mvn compile`

To run the application:

`mvn exec:java`



The screenshot shows a Windows PowerShell terminal window with the following output:

```
PS C:\Users\nguye\Desktop\FinalProject\Application\JavaFX_MavenTemplate> mvn compile
[INFO] Scanning for projects...
[INFO] -----< CS342Fall2020:javaFXTemplate >-----
[INFO] Building javaFXTemplate 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ javaFXTemplate ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] copying 3 resources
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ javaFXTemplate ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 7 source files to C:\Users\nguye\Desktop\FinalProject\Application\JavaFX_MavenTemplate\target\classes
[INFO] BUILD SUCCESS
[INFO] Total time: 4.019 s
[INFO] Finished at: 2020-12-11T00:30:28-06:00
[INFO] -----
PS C:\Users\nguye\Desktop\FinalProject\Application\JavaFX_MavenTemplate> mvn exec:java
[INFO] Scanning for projects...
[INFO] -----< CS342Fall2020:javaFXTemplate >-----
[INFO] Building javaFXTemplate 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- exec-maven-plugin:1.6.0:java (default-cli) @ javaFXTemplate ---
```

Overlaid on the terminal is a JavaFX application window titled "Username Password Host Connect". It contains three text input fields labeled "Username", "Password", and "Host". The "Username" field contains the text "root", the "Password" field contains "aaaa", and the "Host" field contains "localhost". A "Connect" button is located below the "Host" field.

The Windows taskbar at the bottom shows the search bar with the text "Type here to search", several application icons, and the system clock displaying "12:30 AM 12/11/2020".