

1. Team members:

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2. Work Division:

Minh Hung Le:

- Create Sign up scene and controller, including professors and students sign up.
- Create Professor Review scene and controller, including writing review, review filter, report feature, and professor reply function.
- Create Support ticket scene and controller, which allows the user to send a support ticket to the database.

Reagan Mackey:

- Create College Review scene and controller, including writing review, review filter, report feature, and professor reply function.
- Connecting and unifying all team member code assignments into the final project package.
- Testing the application and creating an application demo.

Prathana Phukon:

- Constructing EER Model and derive appropriate DDL command for construct all schema and table.
- Create Add professor and college scene and controller, which allows students to add new professors or schools to the database.
- Document team projects, organize team meetings, and manage team workflow.

3. Project setup:

Step1: Installation software and connection:

Java Development Kit (Java SE 18)

<https://www.oracle.com/java/technologies/downloads/#jdk18-windows>


Choose the appropriate version and follow the instructions of the java .exe file to download Java:

Linux	macOS	Windows
Product/file description	File size	Download
x64 Compressed Archive	172.79 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.zip (sha256 🔗)
x64 Installer	153.37 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.exe (sha256 🔗)
x64 MSI Installer	152.25 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.msi (sha256 🔗)

Eclipse IDE (2022-06)

<https://www.eclipse.org/downloads/download.php?file=/oomph/epp/2022-06/R/eclipse-inst-jre-win64.exe>

Choose the appropriate operation version and follow the eclipse instruction to get Eclipse IDE



Eclipse IDE for Java EE Developers

Package Description

Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE and JSF, Mylyn and others.

This package includes:

- ▶ Detailed features list

Maintained by: WTP and the Eclipse Packaging Project

Download Links

Windows 32-bit | Linux 32-bit | x86_64

Downloaded 0 Times

▶ Checksums...


Bugzilla

▶ Open Bugs: 0

▶ Resolved Bugs: 0


[File a Bug on this Package](#)

New and Noteworthy



An Open-Source Strategy

The Eclipse Installer 2022.06 R now includes a JRE for macOS, Windows and Linux.



Get Eclipse IDE 2022-06

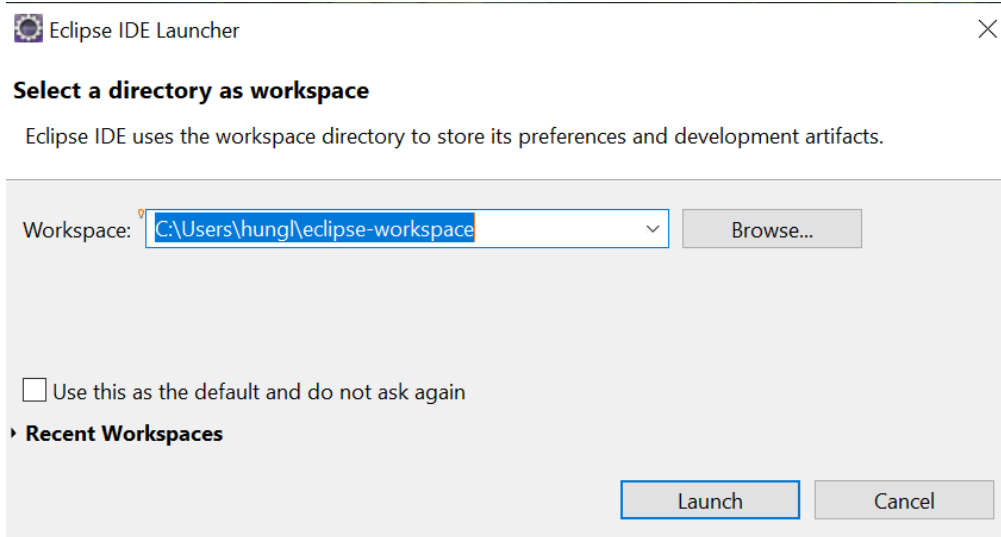
Install your favorite desktop IDE packages.

[Download x86_64](#)

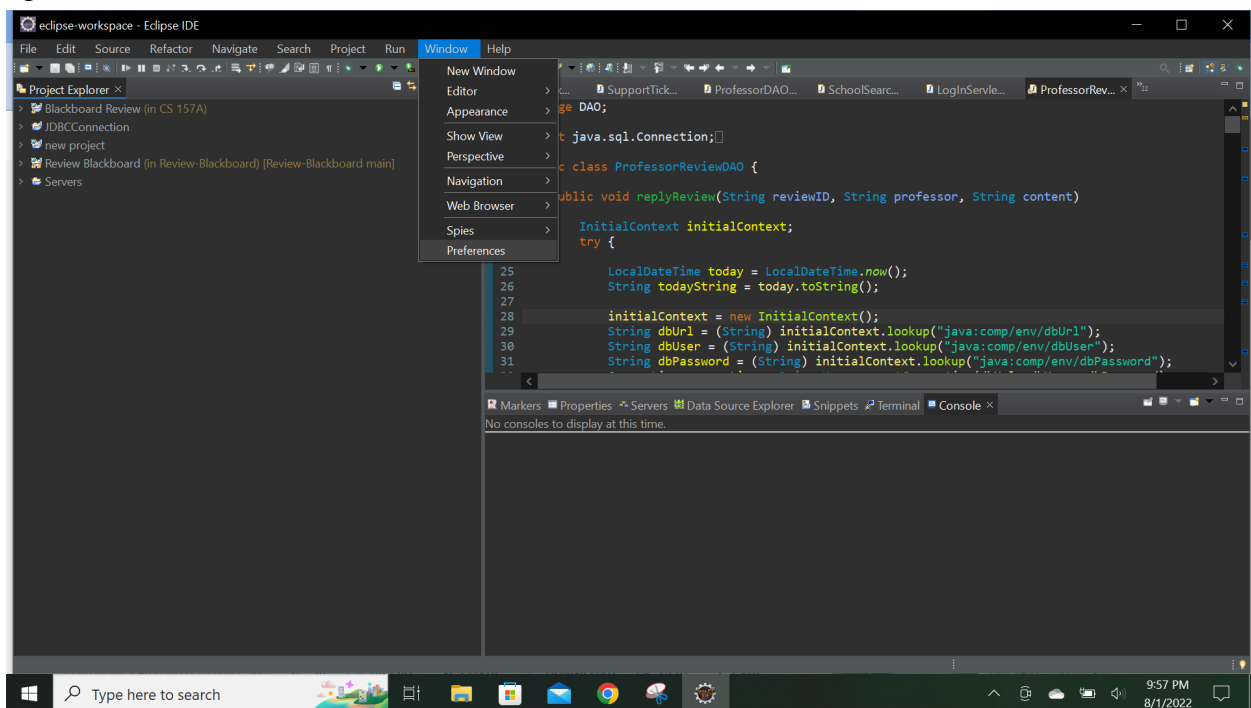
[Download Packages](#) | [Need Help?](#)

Configuring JDK in Eclipse:

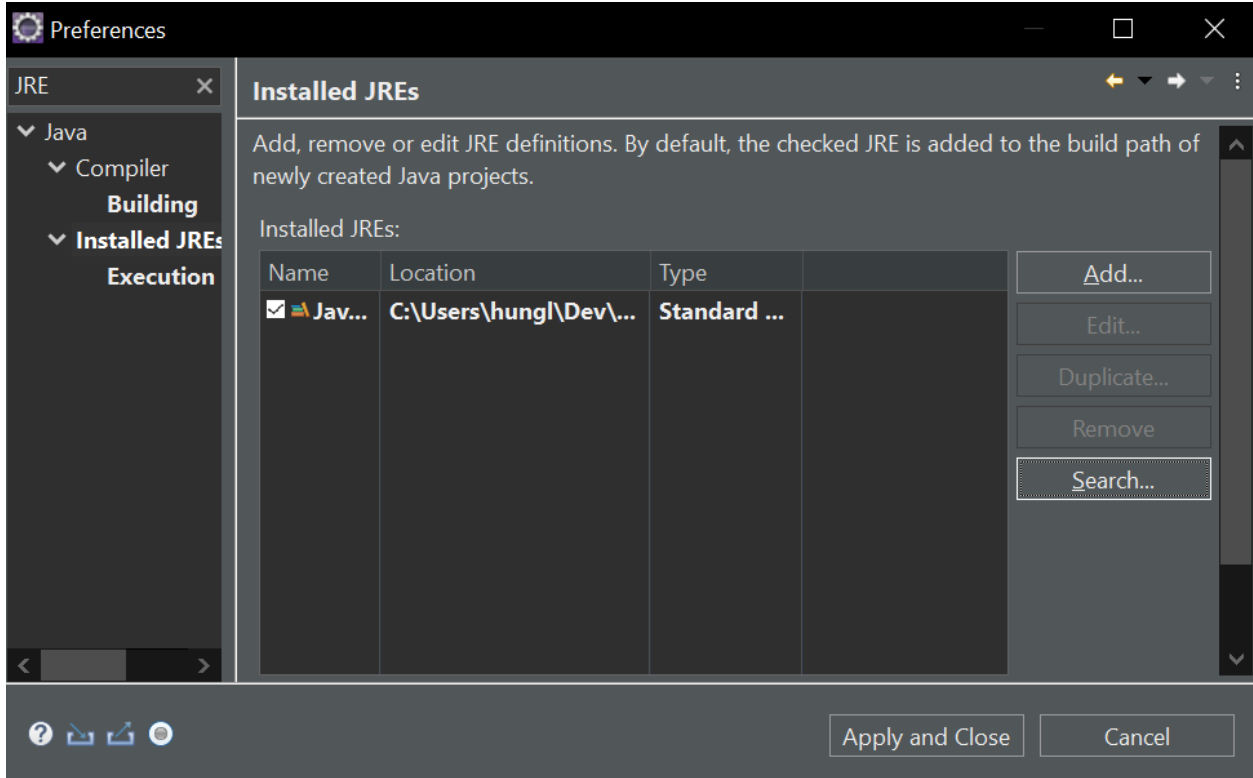
Launch eclipse EE



Open the window and choose Preferences:



Search JRE selects Installed JREs, and search choose installed JDK previously:



Click Apply and closed.

Apache Tomcat (8.0.36)

<https://tomcat.apache.org/download-80.cgi>

Choosing the appropriate version:

For window, choose 64-bit Windows.zip

For Mac and Linux, choose tar.gz

taglibs
Archives

Documentation

Tomcat 10.1 (beta)
Tomcat 10.0
Tomcat 9.0
Tomcat 8.5
Tomcat Connectors
Tomcat Native 1.2
Tomcat Native 1.2
Wiki
Migration Guide
Presentations
Specifications

Problems?

Security Reports
Find help
FAQ
Mailing Lists
Bug Database
RC

Get Involved

Overview
Source code
Buildbot
Translations
Tools

download, and make sure it is the same as ours.

Mirrors

You are currently using <https://d1cdn.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors:

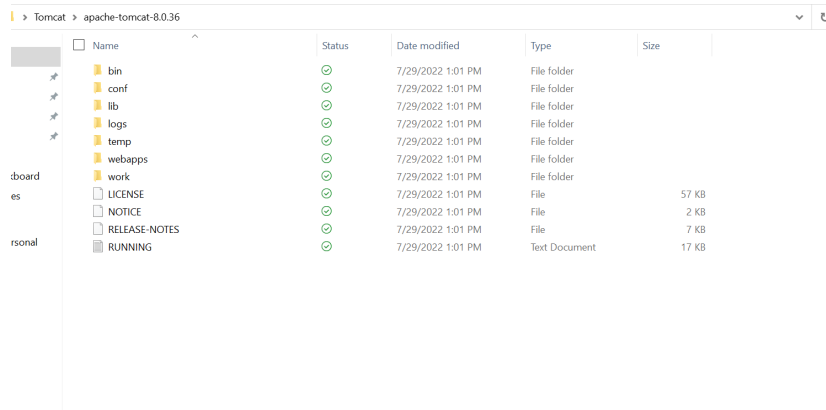
8.5.81

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

- Core:
 - [zip \(pgp, sha512\)](#)
 - [tar.gz \(pgp, sha512\)](#)
 - [32-bit Windows.zip \(pgp, sha512\)](#)
 - [64-bit Windows.zip \(pgp, sha512\)](#)
 - [32-bit/64-bit Windows Service Installer \(pgp, sha512\)](#)
- Full documentation:
 - [tar.gz \(pgp, sha512\)](#)
- Deployer:
 - [zip \(pgp, sha512\)](#)
 - [tar.gz \(pgp, sha512\)](#)
- Extras:
 - [Web services.jar \(pgp, sha512\)](#)
- Embedded:

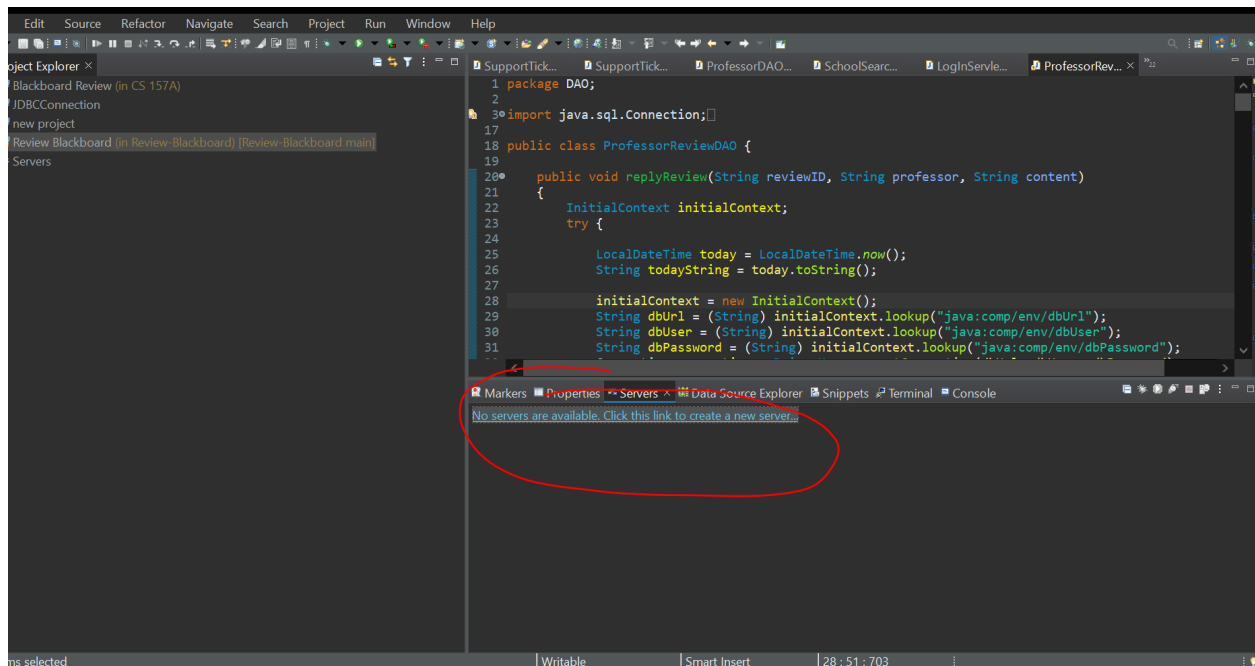
Unzip the package and save it to the appropriate location:



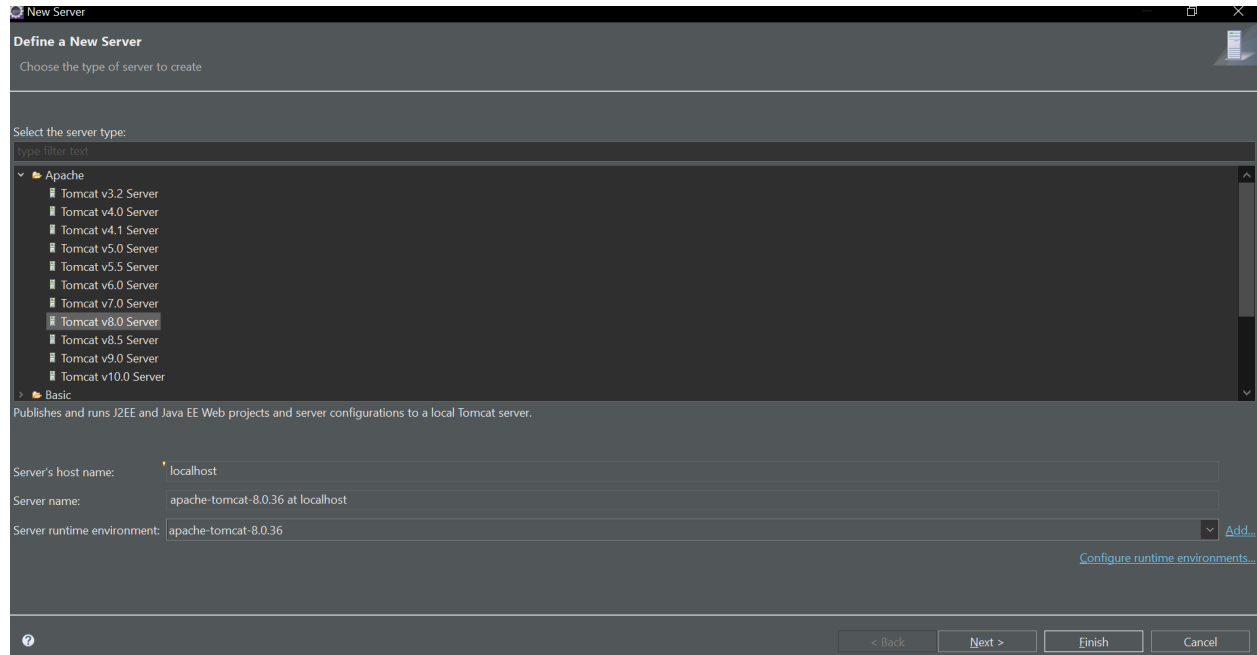
Name	Status	Date modified	Type	Size
bin	✓	7/29/2022 1:01 PM	File folder	
conf	✓	7/29/2022 1:01 PM	File folder	
lib	✓	7/29/2022 1:01 PM	File folder	
logs	✓	7/29/2022 1:01 PM	File folder	
temp	✓	7/29/2022 1:01 PM	File folder	
webapps	✓	7/29/2022 1:01 PM	File folder	
work	✓	7/29/2022 1:01 PM	File folder	
LICENSE	✓	7/29/2022 1:01 PM	File	57 KB
NOTICE	✓	7/29/2022 1:01 PM	File	2 KB
RELEASE-NOTES	✓	7/29/2022 1:01 PM	File	7 KB
RUNNING	✓	7/29/2022 1:01 PM	Text Document	17 KB

Configuring Tomcat in Eclipse:

Open the server tab and click create a new server



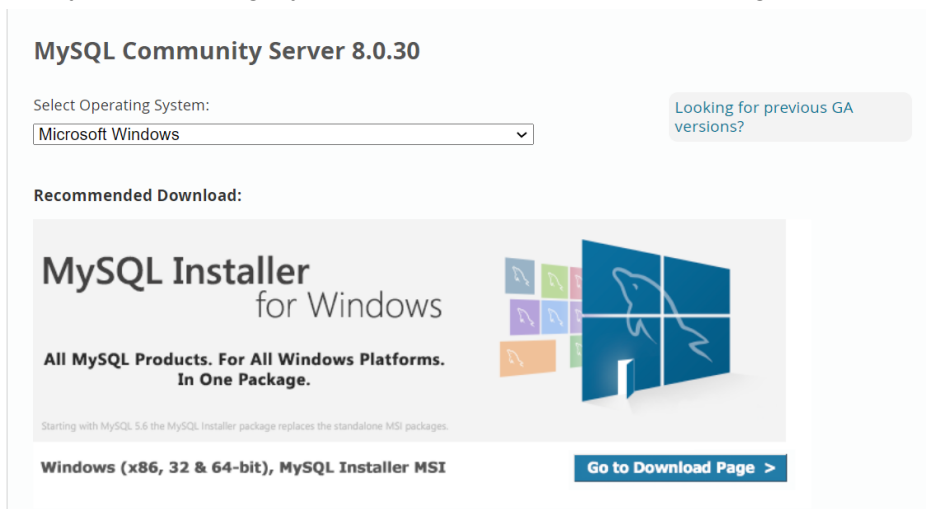
Open Apache and choose the appropriate tomcat version, then click finish:



MySQL Server

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

Choose your Operating System, and click Go to download page:



Choose either version to download

MySQL Installer 8.0.30

Select Operating System:
Microsoft Windows

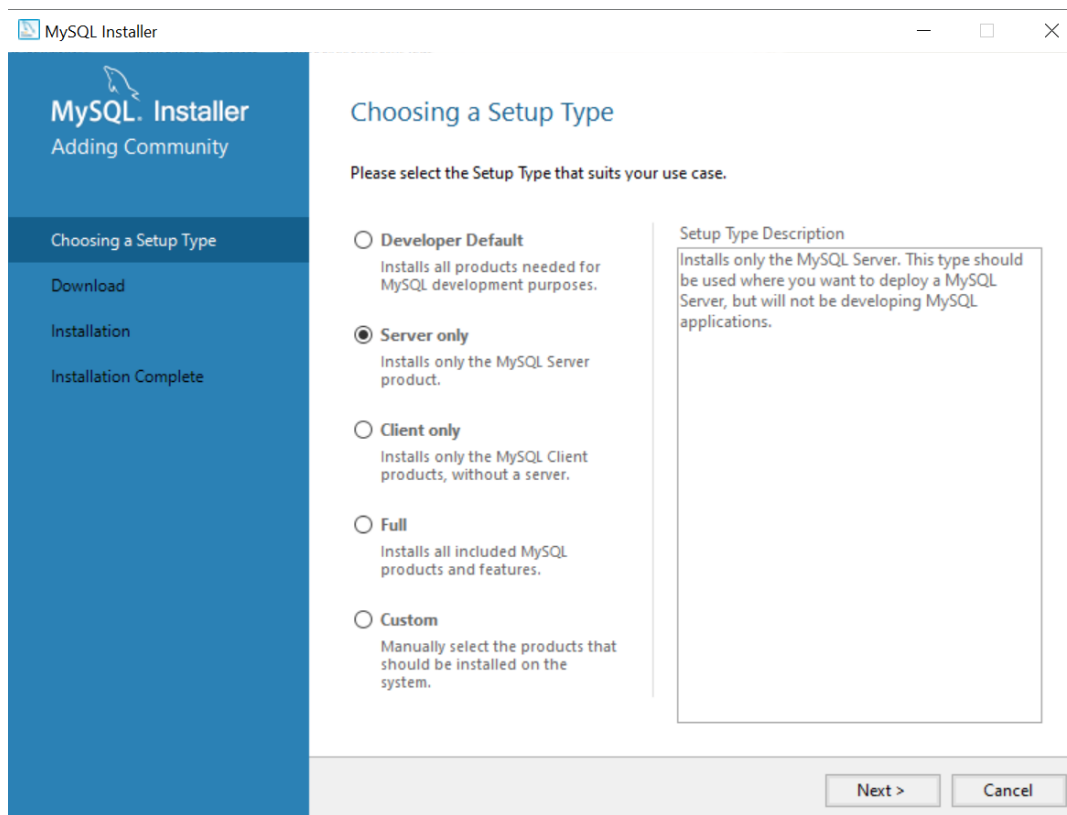
[Looking for previous GA versions?](#)

Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.30.0.msi)	8.0.30	5.5M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.30.0.msi)	8.0.30	448.3M	Download

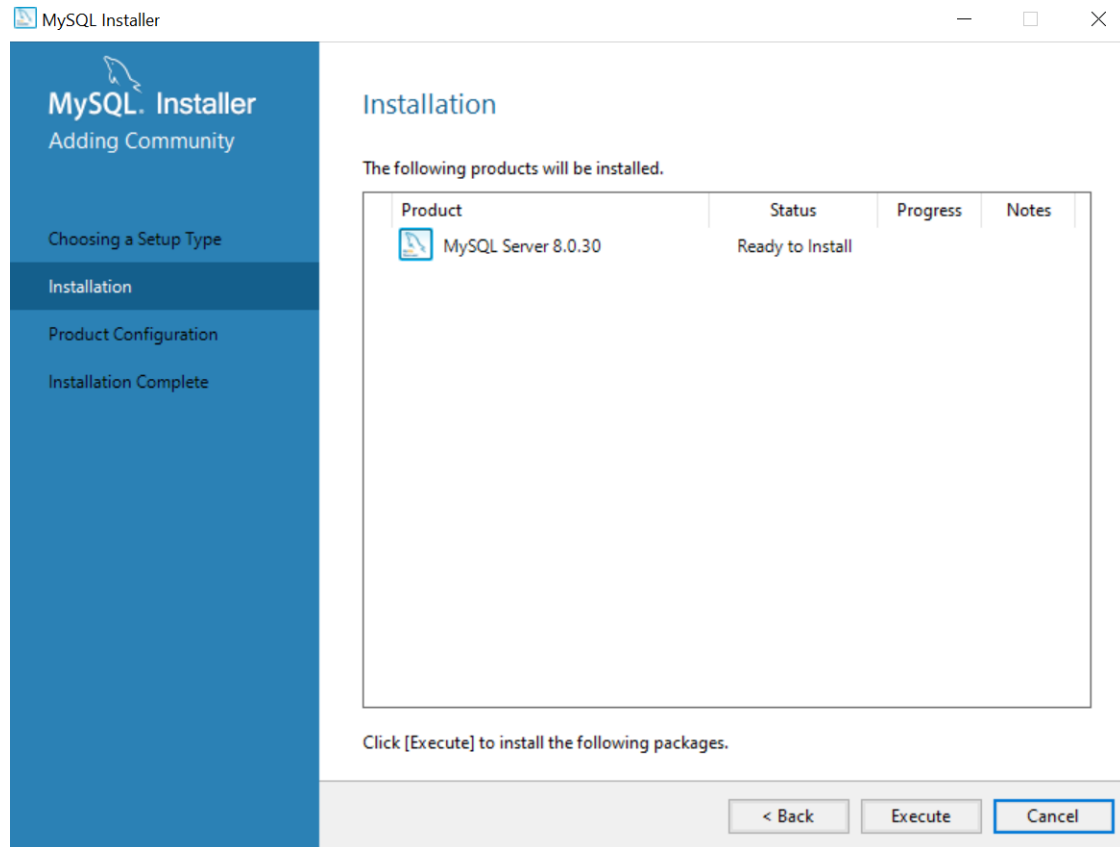
MD5: c095cf221e8023fd8391f81eadce65fb | [Signature](#)

MD5: c9cbd5d788f45605dae914392a1dfeea | [Signature](#)

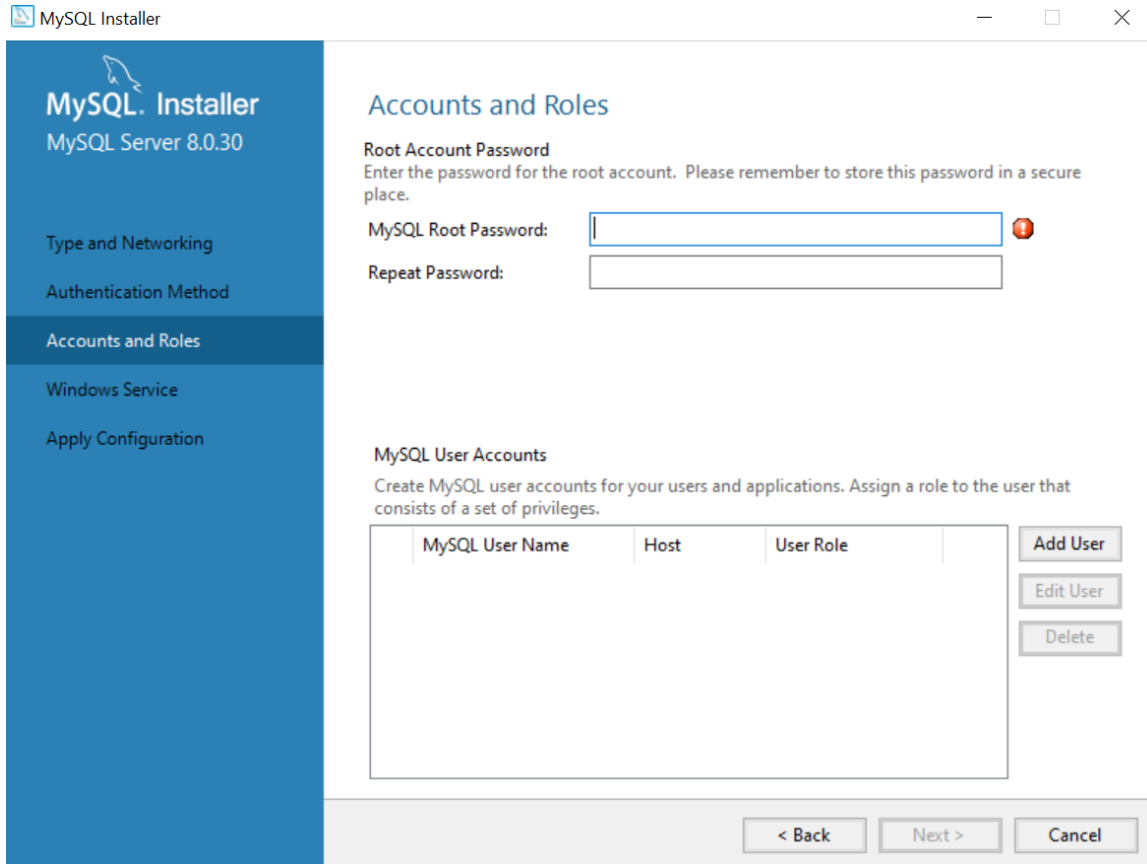
Run the .exe file and follow the instruction:
Choose the web server only option, then click next



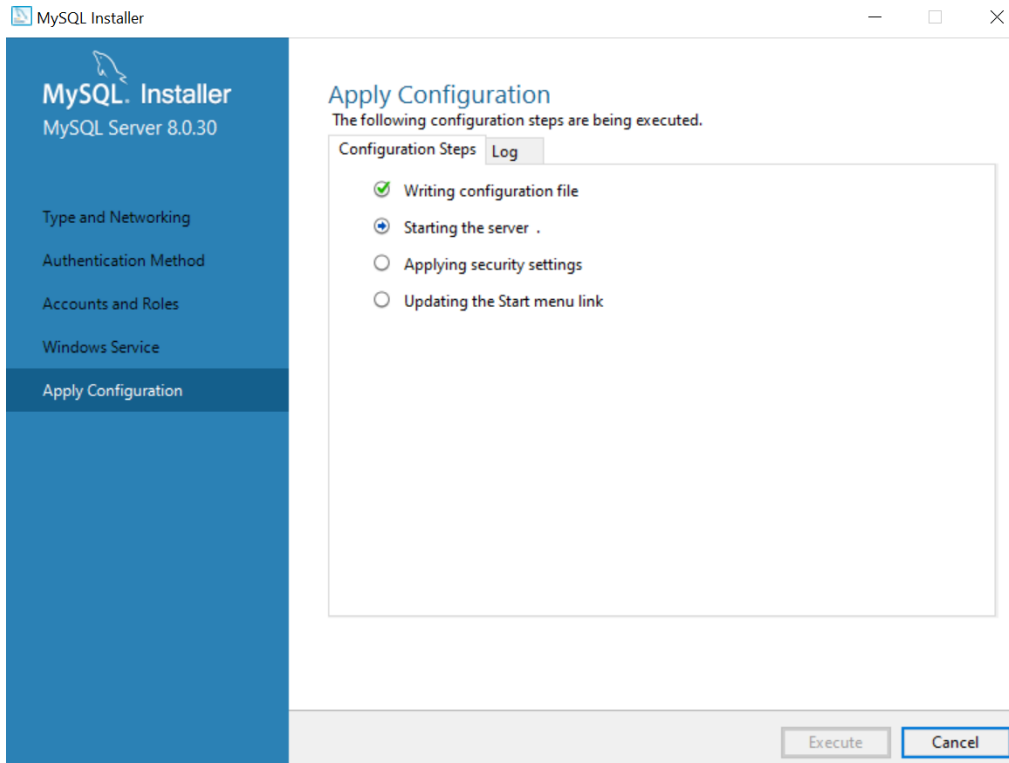
Click Execute and wait a few minutes:



Then click next until seeing the scene set up a password, for minimal setting up using the password “oracle”



Click next then execute:



Wait until the program is complete, then click finish

MySQL Workbench (8.0.30):

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

Recommended Download:

MySQL Installer for Windows


All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.

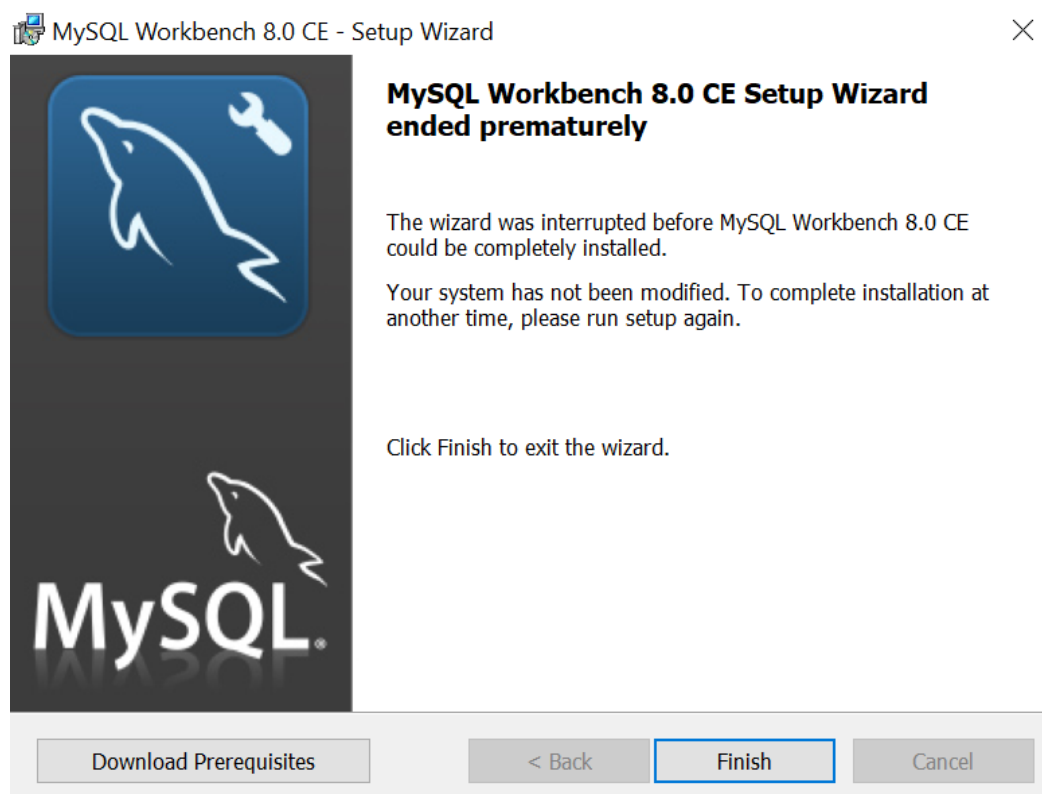
Windows (x86, 32 & 64-bit), MySQL Installer MSI [Go to Download Page >](#)

Other Downloads:

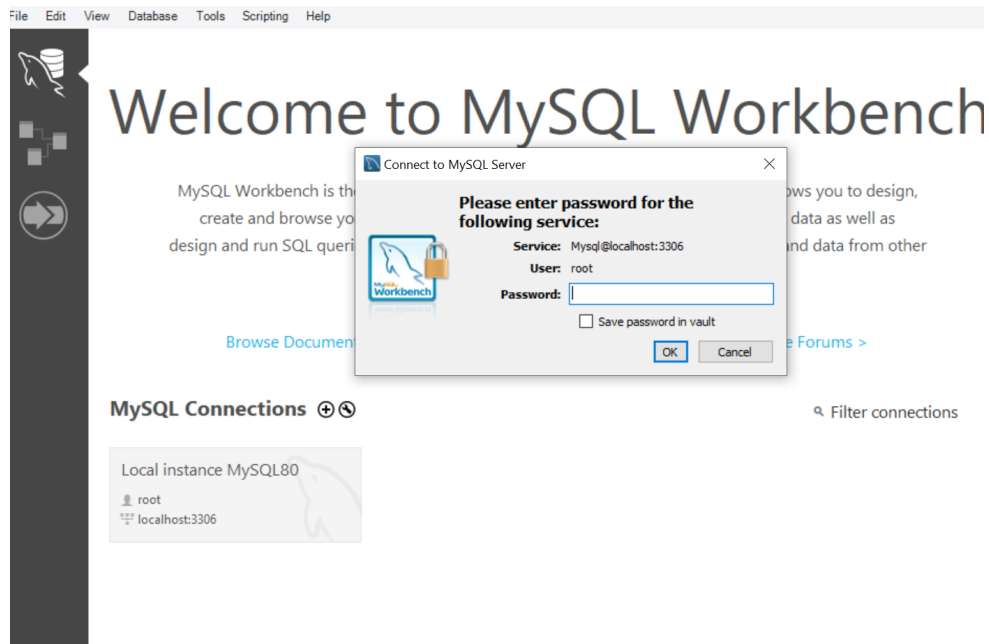
Windows (x86, 64-bit), MSI Installer	8.0.30	44.5M	Download
<small>(mysql-workbench-community-8.0.30-winx64.msi)</small>		<small>MD5: 5c7def4c83989f60522972455a512c1d Signature</small>	

 We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

Follow the .exe file instruction and install the MySql workbench:



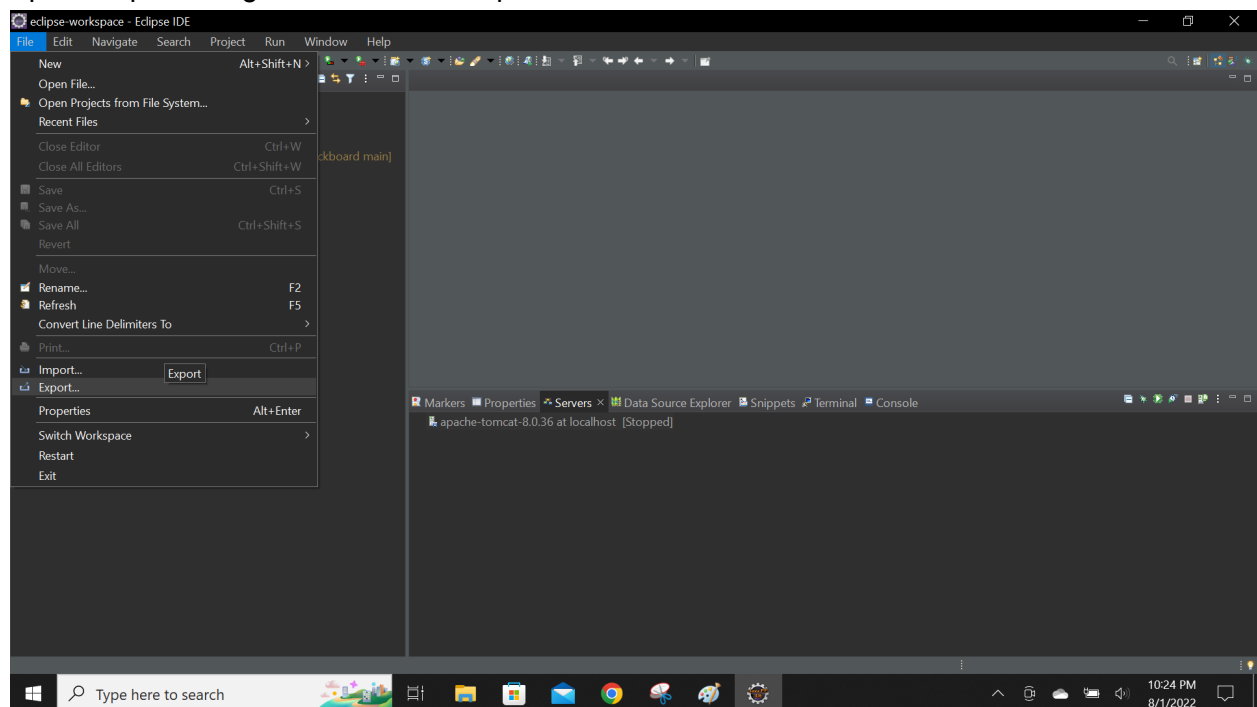
Launch it and use the password set up previously to log In:



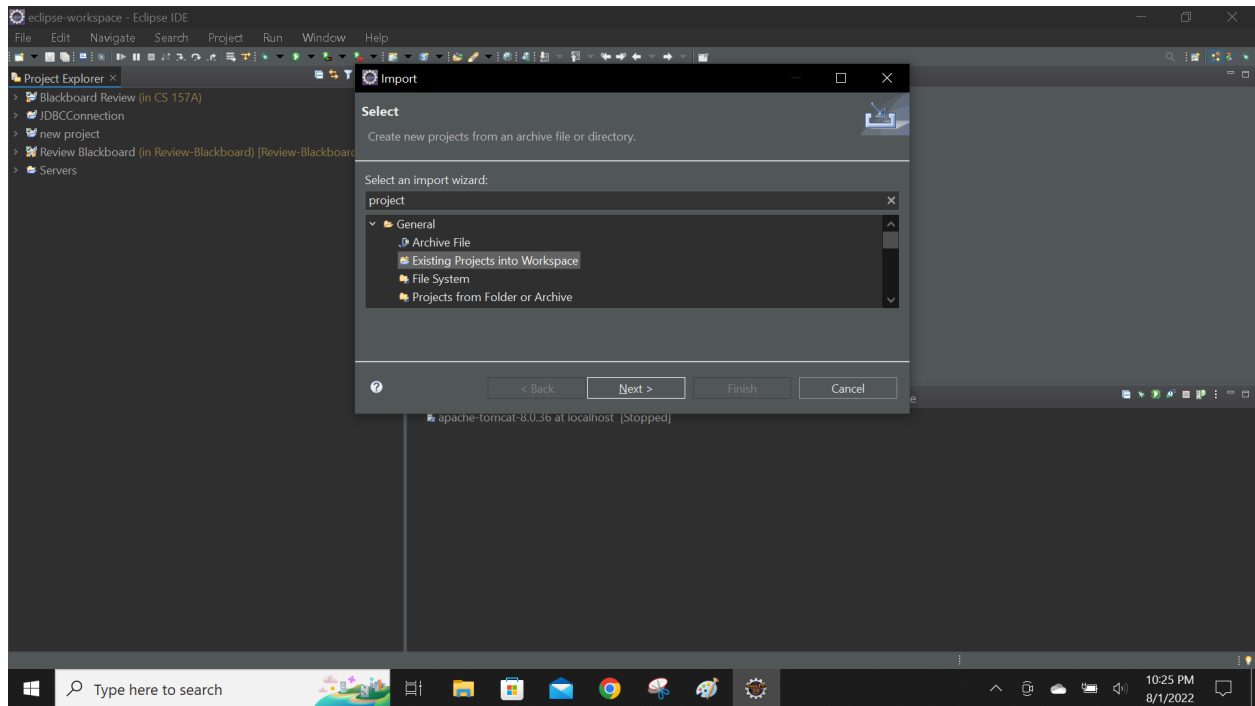
Step 2:

Go to GitHub and get the zip folder then unpack it in appropriate location,

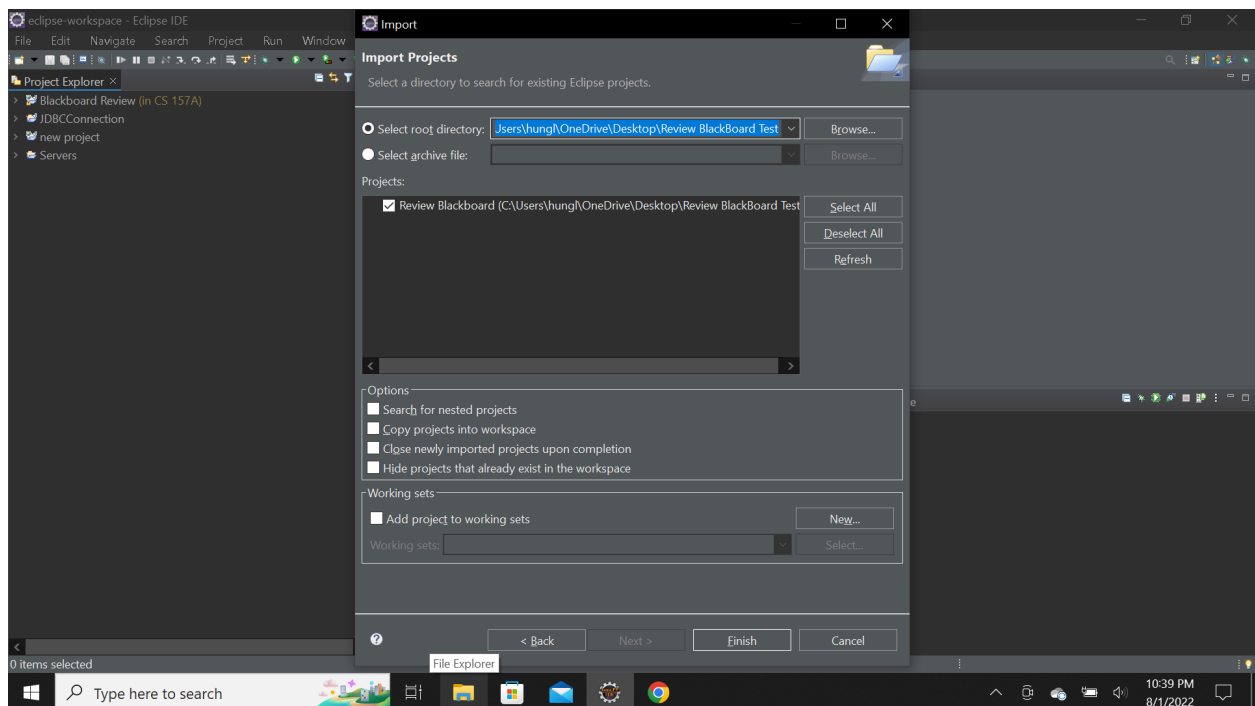
Open eclipse IDE goes to file, then import:



Search and choose option “Existing project to workspace”:



Browse for the project location and click finish



Setting up Mysql username and password:

The screenshot shows the Eclipse IDE interface. On the left, the Project Explorer displays the project structure:

- Project Explorer
 - apache-tomcat-8.0.36
 - build
 - Document
 - src
 - main
 - java
 - webapp
 - Images
 - META-INF
 - WEB-INF
 - lib
 - web.xml**

The main editor window shows the content of `web.xml`:

```
<?xml version="1.0" encoding="UTF-8"?>
<?web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID">
  <display-name>new project</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.jsp</welcome-file>
    <welcome-file>default.htm</welcome-file>
  </welcome-file-list>
  <context-param>
    <param-name>hostUrl</param-name>
    <param-value>jdbc:mysql://localhost/</param-value>
  </context-param>
  <context-param>
    <param-name>dbUrl</param-name>
    <param-value>jdbc:mysql://localhost/ReviewBlackboardDB</param-value>
  </context-param>
  <context-param>
    <param-name>dbUser</param-name>
    <param-value>root</param-value>
  </context-param>
  <context-param>
    <param-name>dbPassword</param-name>
    <param-value>oracle</param-value>
  </context-param>
</web-app>
```

The bottom status bar shows the terminal output:

```
<terminated> apache-tomcat-8.0.36 at localhost [Apache Tomcat] C:\Users\hung\Dev\Java\bin\java.exe (Aug 1, 2022, 10:46:02 PM - 10:46:48 PM) [pid: 4900]
```

```

17• <context-param>
18    <param-name>dbUrl</param-name>
19    <param-value>jdbc:mysql://localhost/ReviewBlackboardDB</param-value>
20 </context-param>
21• <context-param>
22    <param-name>dbUser</param-name>
23    <param-value>root</param-value>
24 </context-param>
25• <context-param>
26    <param-name>dbPassword</param-name>
27    <param-value>oracle</param-value>
28 </context-param>
29
30
31• <servlet>
32    <servlet-name>signUpServlet</servlet-name>
33    <servlet-class>java.Controller.SignUpServlet</servlet-class>
34 </servlet>
35• <servlet-mapping>
36    <servlet-name>signUpServlet</servlet-name>
37    <url-pattern>/SignUp</url-pattern>
38 </servlet-mapping>
39
40• <env-entry>
41    <env-entry-name>hostUrl</env-entry-name>
42    <env-entry-type>java.lang.String</env-entry-type>

```

Handwritten annotations in red:

- A red circle around the value `root` in line 23.
- A red circle around the value `oracle` in line 27.
- Red arrows pointing from the word `USERNAME` to the `root` value and from the word `password` to the `oracle` value.

```

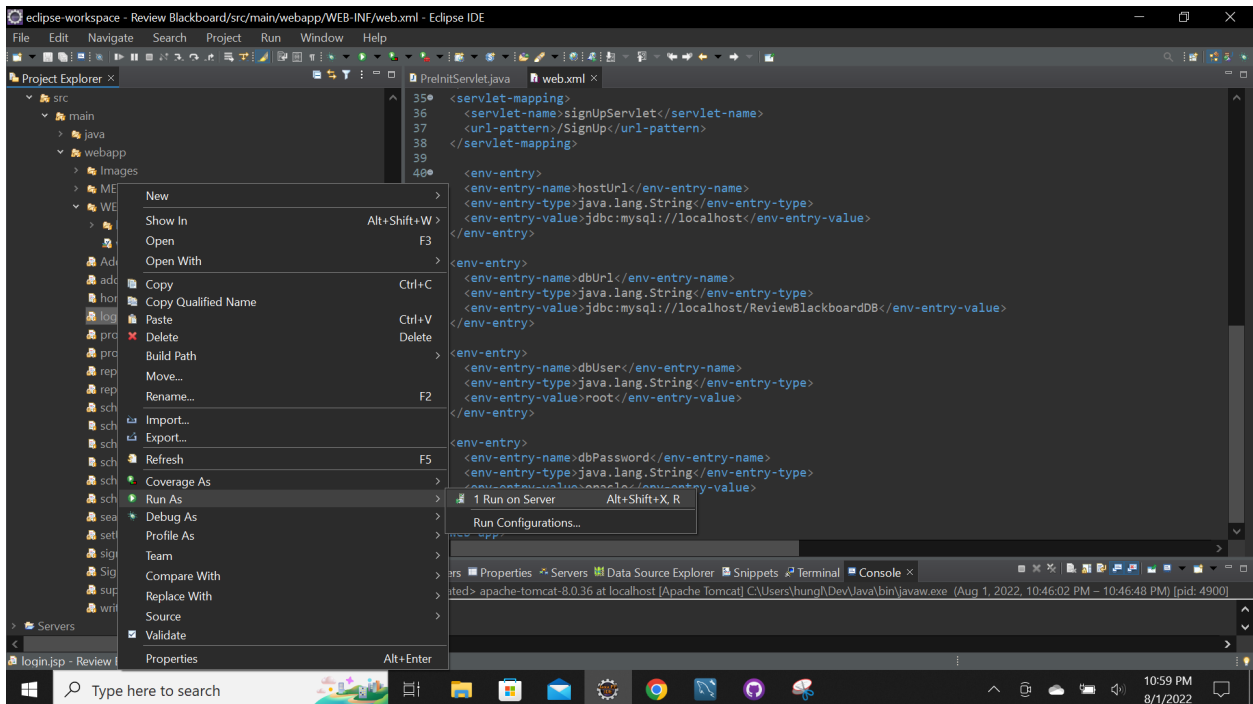
41 <env-entry-name>hostUrl</env-entry-name>
42 <env-entry-type>java.lang.String</env-entry-type>
43 <env-entry-value>jdbc:mysql://localhost</env-entry-value>
44 </env-entry>
45
46 <env-entry>
47 <env-entry-name>dbUrl</env-entry-name>
48 <env-entry-type>java.lang.String</env-entry-type>
49 <env-entry-value>jdbc:mysql://localhost/ReviewBlackboardDB</env-entry-value>
50 </env-entry>
51
52 <env-entry>
53 <env-entry-name>dbUser</env-entry-name>
54 <env-entry-type>java.lang.String</env-entry-type>
55 <env-entry-value>root</env-entry-value>
56 </env-entry>
57
58 <env-entry>
59 <env-entry-name>dbPassword</env-entry-name>
60 <env-entry-type>java.lang.String</env-entry-type>
61 <env-entry-value>oracle</env-entry-value>
62 </env-entry>
63

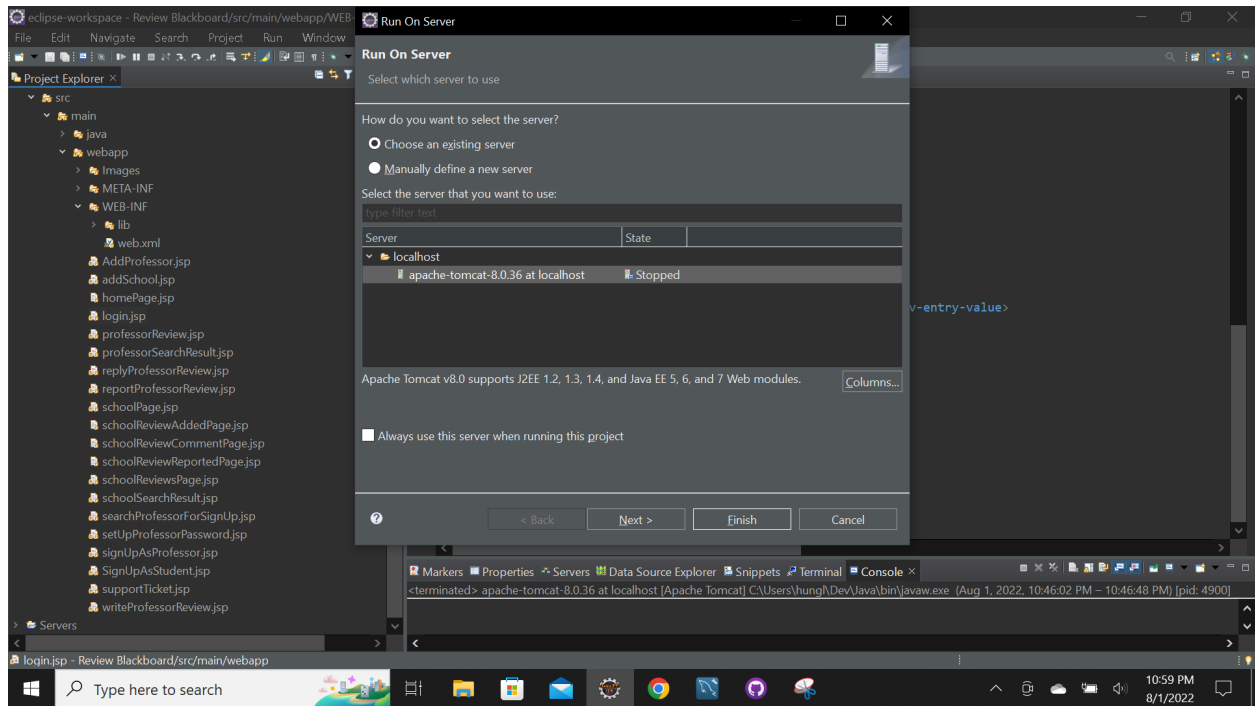
```

Handwritten red annotations:

- A red circle around the value `root` in line 55, with a red arrow pointing to it from the word **USERNAME** written in red.
- A red circle around the value `oracle` in line 61, with a red arrow pointing to it from the words **PASS WORD** written in red.

Follow the path “src\main\webapp\login.jsp” to find login.jsp file. Then run it with the tomcat server





Log in page will open, and the ReviewBlackboard database will be added to the MySQL server.

Log In

Email

Password

LOG IN

SIGN UP AS STUDENT

SIGN UP AS PROFESSOR

SCHEMAS

Filter objects

- ▼ reviewblackboarddb
 - ▼ Tables
 - ▶ comm_prof_rev
 - ▶ comm_school_rev
 - ▶ prof_flags_srev
 - ▶ prof_reviews
 - ▶ professor
 - ▶ professorsupportticket
 - ▶ school
 - ▶ school_reviews
 - ▶ stud_flags_srev
 - ▶ stud_reports_prev
 - ▶ student
 - ▶ studentsupportticket
 - ▼ Views

Administration Schemas

Th
To
Id