
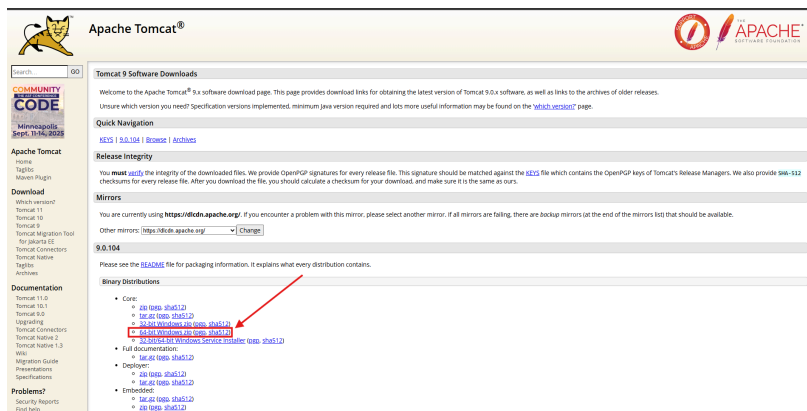


Project Setup Guide

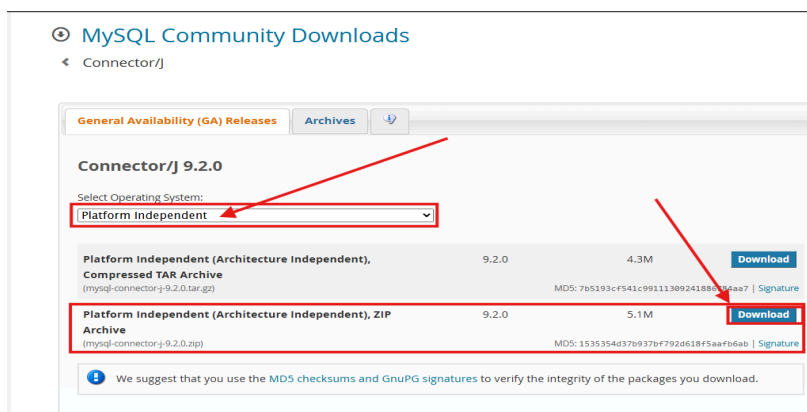
Welcome to the Currency Exchange Rate Management System! Below is a step-by-step guide for setting up and running the project. 🖥️ ✨

Requirements

- **Java JDK (Java 8 or above)**
- **Apache Tomcat (version 9.x): [Download](#) **



- **MySQL Database (USE XAMPP)**
- **MySQL Connector/J ([mysql-connector-j-9.2.0](#) ) for database connection**



Step 1: Set Up Environment Variables

Set **JAVA_HOME** and **PATH** on your system:

1. **Install Java JDK:**
 - Download and install [Java JDK](#) if you haven't already.
2. **Set JAVA_HOME on your system:**
 - **On Windows:**
 1. Open the **Control Panel** and go to **System and Security > System > Advanced system settings**.
 2. Click on **Environment Variables**.
 3. Under **System Variables**, click on **New**.
 4. Set the **Variable Name** as **JAVA_HOME** and **Variable Value** as the directory where your Java is installed (e.g., **C:\Program Files\Java\jdk-14**).
 5. Add **%JAVA_HOME%\bin%** to the **Path** variable in **System Variables** (e.g., **C:\Program Files\Java\jdk-14\bin**).

Step 2: Clone the GitHub Repository

1. Clone the repository from GitHub:

```
git clone https://github.com/imransihab0/java-project-currency_exchange
```

Or, if you're downloading a ZIP:

- Go to the GitHub page, click on the **Code** button, and download the ZIP file.

Step 3: Compile the Project 🏗️

1. Open **Command Prompt** (Windows) or **Terminal** (Mac/Linux).
2. Navigate to the project root directory where your Java files are located.
3. Run the following command to compile the entire project:

```
javac -cp
";C:\Users\UserR\Downloads\apache-tomcat-9.0.104\lib\servlet-api.jar;mysql-connector-j-9.2.0.jar" -d WEB-INF\classes *.java
```

This command compiles all `.java` files in the root directory and places the resulting `.class` files in the `WEB-INF/classes` folder.

Important: Make sure the paths to `servlet-api.jar` and `mysql-connector-j-9.2.0.jar` are correct on your system.

Step 4: Set Up Apache Tomcat 🚶

1. **Download and Install Apache Tomcat:**
 - You can download Apache Tomcat from the official website: [Tomcat 9](#).
2. **Deploy the Project to Tomcat:**
 - After compiling, copy the `WEB-INF` directory (which includes the `classes` folder and `web.xml`) into the `webapps` folder of your Tomcat installation.
 - Your project folder in Tomcat should look like this:

```
/apache-tomcat-9.0.104/webapps
  /your-project-name
    /WEB-INF
      /classes
        /your/servlets (compiled .class files)
      /lib
        mysql-connector-j-9.2.0.jar
      web.xml
```

Step 5: Start Apache Tomcat 🚀

1. Start Tomcat:

- Navigate to the **bin** directory inside your Tomcat folder and run the following command:

- **On Windows:** `startup.bat`
- **On Mac/Linux:** `./startup.sh`

2. Reboot Tomcat (if needed):

- If you make changes or need to restart Tomcat, navigate to the **bin** directory and run:
 - **On Windows:**

```
shutdown.bat  
startup.bat
```

- **On Windows:**

```
./shutdown.sh  
./startup.sh
```

Step 6: Access the Project 🌐

Once Tomcat is running, you can access the project by visiting the following URL in your web browser:

```
http://localhost:8080/your-project-name/
```

Conclusion 🎉

Congratulations, you've set up your Currency Exchange Rate Management System! 🎉

If you encounter any issues or need assistance, feel free to raise an issue on the GitHub repository.

Happy coding! 🏠🏠🚀