

## Online Shopping Store Deployment Guide

This document provides step-by-step instructions to deploy and run the Online Shopping Store Java project locally using Eclipse, MySQL Workbench, and Apache Tomcat v9.

### 1. Requirements

Before you begin, make sure you have the following tools installed:

- ☒ Java JDK 8 or above
- ☒ Eclipse IDE (preferably Eclipse IDE for Enterprise Java Developers)
- ☒ Apache Tomcat v9
- ☒ MySQL Workbench and MySQL Server
- ☒ Project archive: **OnlineShoppingStore.zip**
- ☒ Database script: **onlineshoppingstore new.sql**

### 2. Import Project into Eclipse

1. Launch Eclipse IDE.
2. Go to: **File → Import... → Existing Projects into Workspace**
3. Select **Archive File**, then click **Browse...** and choose **OnlineShoppingStore.zip**.
4. Click **Finish** to import the project.

### 3. Set Up the Database

1. Open MySQL Workbench.
2. Create a new schema, e.g., **onlineshoppingstore**.
3. Open the file **onlineshoppingstore new.sql**.
4. Execute the SQL script to create all tables and insert sample data.

### 4. Configure Database Connection

1. In Eclipse, go to the file **DBConnection.java** (located inside the **util** package).
2. Update the connection credentials as follows:

```
java Copy
URL:      jdbc:mysql://localhost:3306/YOUR_DATABASE_NAME
USER:     root      PASSWORD:
your_password
```

3. Save the file.

## 5. Add Tomcat Server in Eclipse




1. Go to: **Window → Show View → Servers**.
2. Click **Create a new server**.
3. Choose: **Apache → Tomcat v9.0 Server**.
4. Select the Tomcat installation directory.
5. Add the **OnlineShoppingStore** project to the server.
6. Click **Finish**.

## 6. Run the Project

1. Right-click on the Tomcat server in the **Servers** view.
2. Click **Start** or **Run**.
3. Open your browser and visit: <http://localhost:8080/OnlineShoppingStore/>

### ☒ Project Successfully Deployed!

If the project doesn't run correctly:

-  Make sure MySQL Server is running.
-  Double-check your database connection values.
-  Review the console logs for exceptions or errors.

## 7. (Optional) Configure web.xml

1. Navigate to: **WebContent/WEB-INF/web.xml**.
2. Ensure the following structure is present for servlet and welcome file mapping:

```
xml Copy
<web-app>
    <servlet>
        <servlet-name>UserLoginServlet</servlet-name>
        <servlet-class>servlet.UserLoginServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>UserLoginServlet</servlet-name>
        <url-pattern>/user/login</url-pattern>
    </servlet-mapping>
    <welcome-file-list>
        <welcome-file>user/UserLogin.jsp</welcome-file>
    </welcome-file-list>
</web-app>
```