

# Opulence



An Anglo-Carnatic Product

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## CONFIGURATION MANUAL

### 1. Introduction

The configuration manual is to provide you with the necessary steps to be taken for setting up the Opulence app. This manual includes the installation of a couple of JAR files that take significant time to install and an IDE to make a flawless execution of the Java-coded programs. The estimated time to complete the configuration is, perhaps, half-an-hour; provided your internet connection is strong enough to support a download of at least a 1GB file.

### 2. Installation

#### 2.1. Prerequisites

All you need is a web browser and a strong internet connection to complete the preliminary stages of the configuration.

#### 2.2. Preliminary Configuration

You would need to install the following:

1. Visual Studio Code (VS Code):

If it already exists on your computer, you may rest assured that half of the work is complete. If not, head to [the VS Code installation website](#) to download the IDE.

2. MySQL Workbench:

If MySQL is installed previously on your PC, you may skip to the next step. If not, head to [the MySQL installation website](#) to download MySQL. Since the application requires an obligatory connection to the opulence database, you **mustn't** skip this step.

### 3. Java SDK:

The Java SDK is of utmost importance to run a Java-based application. You can download it from [here](#). If you've previously installed it, you may proceed.

### 4. JAR Files:

The upcoming links take you to the installation directory for the java archive (JAR) files that provide functionality for the spring framework. You must download them, lest the app shouldn't run triumphantly. **Download the latest version for fruitful results.** Here are the links:

- a. Spring JAR files: [JAR files for spring framework free download](#). Downloading the zip file ending with 'dist' suffices.
- b. MySQL connector JAR file: [JAR file for establishing a database connection](#). Only the mysql-connector jar file is required for the purpose.

#### 2.2.1. Database Configuration

Configuring the database is a facile process. Below are the steps:

**Step 1:** Open the command line client of MySQL.

**Step 2:** Enter the password you set while configuring MySQL workbench.

**Step 3:** Type the following commands:

```
1 CREATE DATABASE opulence;
2 use opulence;
3 CREATE TABLE DISHES(
4     mealName varchar(50) UNIQUE,
5     price float(25),
6     onePlate int
7 );
```

#### 2.2.2. Configuring Packages

Opulence profusely works with packages throughout the execution. Even the slightest misconfiguration in directories causes a series of errors. All you must do is renaming the GitHub repository you downloaded as a zip file to 'Opulence Exterior Directory'.

This concludes the preliminary configuration.

## 2.3. Main Configuration

This configuration phase might be shorter than the preliminary configuration but is imperative to make Opulence fully functional.

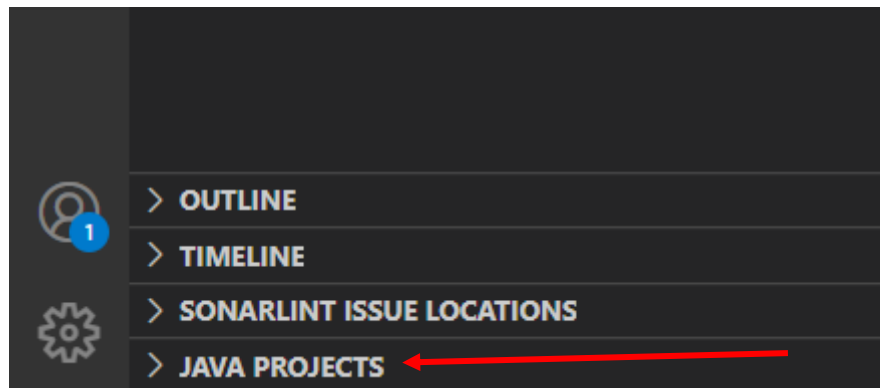
**Step 1:** Extract the zip file containing the JAR files for the spring framework [spring-<version>-dist.zip], and place the extracted folder in ‘Opulence Exterior Directory’.

**Step 2:** Open VS Code.

**Step 3:** In VS Code, click on File → click on open folder.

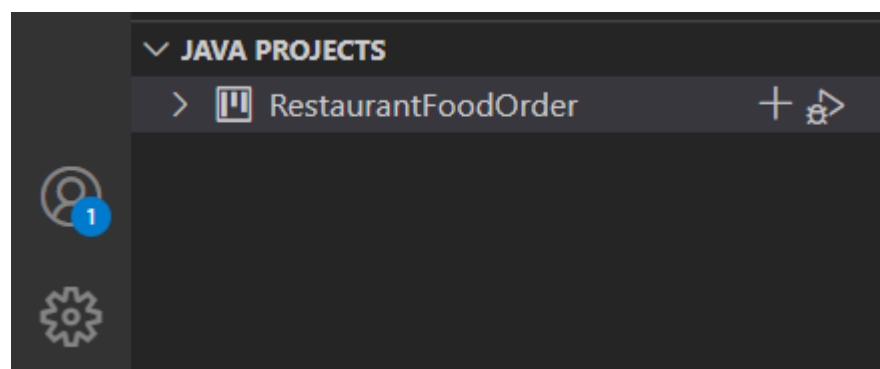
**Step 4:** Select ‘Opulence Exterior Directory’ **only**.

Now you must wait until VS code shows something titled ‘Java Projects’ by the settings icon.

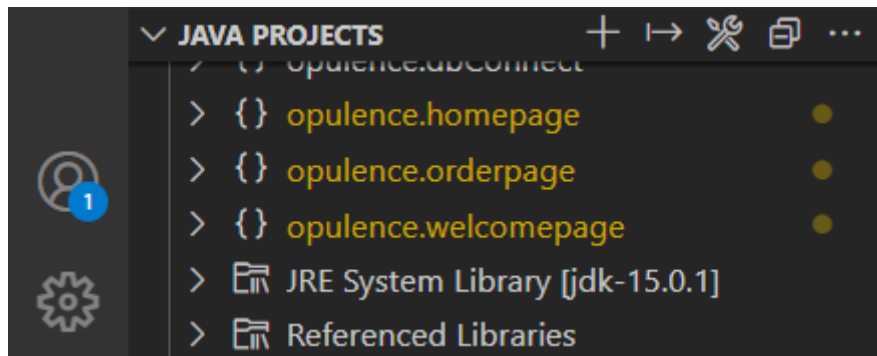


**Step 5:** Click on ‘Java Projects’, and expand ‘Opulence Exterior Directory’.

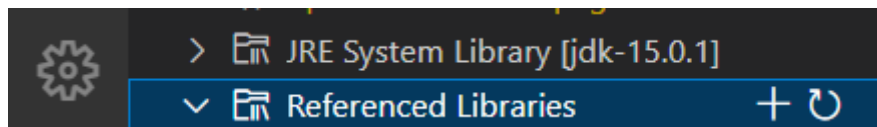
[Note: Here, ‘Opulence Exterior Directory’ is ‘RestaurantFoodOrder’.]



**Step 6:** Head to the bottom till you find ‘Referenced Libraries’.



**Step 7:** Click on ‘Referenced Libraries’, and hit the ‘+’ icon.



**Step 8:** Your file browser opens up now. You must select all the JAR files in the lib directory of the spring-<version>-dist folder, **as well as**, the mysql-connector JAR file. Then, click on ‘Select Jar Libraries’.

The lib folder must look like the one below:

spring-5.3.9-dist > spring-framework-5.3.9 > libs			
Name	Date modified	Type	Size
spring-aop-5.3.9	14/07/2021 06:38 AM	Executable Jar File	367 KB
spring-aop-5.3.9-javadoc	14/07/2021 06:45 AM	Executable Jar File	1,220 KB
spring-aop-5.3.9-sources	14/07/2021 06:45 AM	Executable Jar File	355 KB
spring-aspects-5.3.9	14/07/2021 06:39 AM	Executable Jar File	47 KB
spring-aspects-5.3.9-javadoc	14/07/2021 06:45 AM	Executable Jar File	76 KB
spring-aspects-5.3.9-sources	14/07/2021 06:45 AM	Executable Jar File	31 KB
spring-beans-5.3.9	14/07/2021 06:38 AM	Executable Jar File	681 KB
spring-beans-5.3.9-javadoc	14/07/2021 06:45 AM	Executable Jar File	2,002 KB
spring-beans-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	638 KB
spring-context-5.3.9	14/07/2021 06:39 AM	Executable Jar File	1,222 KB
spring-context-5.3.9-javadoc	14/07/2021 06:46 AM	Executable Jar File	3,533 KB
spring-context-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	1,066 KB
spring-context-indexer-5.3.9	14/07/2021 06:37 AM	Executable Jar File	26 KB
spring-context-indexer-5.3.9-javadoc	14/07/2021 06:38 AM	Executable Jar File	24 KB
spring-context-indexer-5.3.9-sources	14/07/2021 06:38 AM	Executable Jar File	16 KB
spring-context-support-5.3.9	14/07/2021 06:39 AM	Executable Jar File	179 KB
spring-context-support-5.3.9-javadoc	14/07/2021 06:46 AM	Executable Jar File	523 KB
spring-context-support-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	167 KB
spring-core-5.3.9	14/07/2021 06:37 AM	Executable Jar File	1,425 KB
spring-core-5.3.9-javadoc	14/07/2021 06:46 AM	Executable Jar File	2,620 KB
spring-core-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	975 KB
spring-expression-5.3.9	14/07/2021 06:38 AM	Executable Jar File	276 KB
spring-expression-5.3.9-javadoc	14/07/2021 06:46 AM	Executable Jar File	770 KB
spring-expression-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	214 KB
spring-instrument-5.3.9	14/07/2021 06:37 AM	Executable Jar File	8 KB
spring-instrument-5.3.9-javadoc	14/07/2021 06:46 AM	Executable Jar File	23 KB
spring-instrument-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	2 KB
spring-jcl-5.3.9	14/07/2021 06:37 AM	Executable Jar File	24 KB
spring-jcl-5.3.9-javadoc	14/07/2021 06:46 AM	Executable Jar File	57 KB
spring-jcl-5.3.9-sources	14/07/2021 06:46 AM	Executable Jar File	13 KB
spring-jdbc-5.3.9	14/07/2021 06:39 AM	Executable Jar File	409 KB

If you've reached till this point without any hurdles, congratulations! You may rest assured that all the configurations are complete.

A small amendment you might want to consider making is altering the password for connecting to the database.

```
1 package opulence.dbConnect;
2
3 import java.sql.*;
4
5 public class dbConnect {
6     public static Connection connect2db() throws ClassNotFoundException, SQLException {
7         Class.forName(className: "com.mysql.cj.jdbc.Driver");
8         return DriverManager.getConnection(
9             url: "jdbc:mysql://localhost:3306/opulence",
10            user: "root",
11            password: "password");
12     }
13 }
```

The file, dbConnect.java can be found under '/Opulence Exterior Directory/opulence/dbConnect'.

## 3. Running

### 3.1. The Administrator Interface

Since the table dishes in the database is empty, you must first run the administrator interface. For this,

**Step 1:** Open the file named 'administrator.java'.

**Step 2:** Click on 'Run'.

```
opulence > administrator.java > ...
1 package opulence;
2
3 import java.sql.SQLException;
4
5 import org.springframework.context.ApplicationContext;
6 import org.springframework.context.support.ClassPathXmlApplicationContext;
7 import opulence.adminpage.*;
8
9 class opulenceAdministrator {
10
11     Run Debug
12     public static void main(String[] args) throws ClassNotFoundException, SQLException {
13         ApplicationContext context = new ClassPathXmlApplicationContext(configLocation: "spring.xml");
14         adminpage_C a = (adminpage_C) context.getBean(name: "configureadminHome");
15         a.configureadmin();
16     }
17 }
```

**Step 3:** As illustrated in the user manual, enjoy with the administrator interface. Now you may populate the dishes table with your favourite dishes and drinks.

### 3.2. The Customer Interface

**Step 1:** Open the file named 'customer.java'.

**Step 2:** Click on 'Run'.



```
opulence > J customer.java > ...
1  package opulence;
2
3  import java.sql.SQLException;
4
5  import org.springframework.context.ApplicationContext;
6  import org.springframework.context.support.ClassPathXmlApplicationContext;
7  import opulence.homepage.*;
8
9  class opulenceCustomer {
10
11      Run Debug
12      public static void main(String[] args) throws ClassNotFoundException, SQLException {
13          ApplicationContext context = new ClassPathXmlApplicationContext(configLocation: "spring.xml");
14          homepage_C h = (homepage_C) context.getBean(name: "configureHome");
15          h.configureHome();
16      }
17  }
```

**Step 3:** As shown in the user manual, enjoy with the customer interface.

This successfully concludes the configuration process. I hope you enjoy the experience of using opulence.

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