

BACKEND

Required Installation:

[JDK](#)

[MySQL](#)

[Maven](#)

Maven setup:

- Extract Maven to desired directory
- Open the Start menu and search for "Environment Variables."
- Click on "Edit the system environment variables" to open the System Properties dialog.
- Click on the "Environment Variables" button.
- In the "System variables" section, click on "New" to create a new variable.
- Set the variable name as "MAVEN_HOME" (without quotes).
- Set the variable value as the path to your Maven installation directory. For example, C:\Program Files\apache-maven\apache-maven-3.9.3.
- Click "OK" to save the variable.
- In the "System variables" section, locate the "Path" variable and click on "Edit."
- In the Edit Environment Variable dialog, click on "New" to add a new entry.
- Enter the path to your Maven installation's "bin" directory.
- Click "OK" to save the changes.
- Open a new command prompt or terminal window and run the following command to verify that Maven is installed correctly: **mvn --version**
- RESTART PC

MySQL Setup:

- Setup MySQL
 - I've chosen Server only as Setup type.
- Config type: Development Computer
- Port: 3306
- X Protocol Port: 33060
- Server Password: Password123\$%
- Create User
 - admin
 - Password123\$%
- Service Name: MySQLSystemServer

MySQL database creation:

- open MySQL Command Line Client
- create database

```
CREATE DATABASE LAUNDRY_SYSTEM;
```

- verify if database is created

```
SHOW DATABASES;
```

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| laundry_system     |
| mysql              |
| performance_schema |
| sys                |
+-----+
5 rows in set (0.00 sec)
```

- open database

```
USE LAUNDRY_SYSTEM;
```

- create tables

```
CREATE TABLE categories (id BIGINT PRIMARY KEY AUTO_INCREMENT,name  
VARCHAR(255) NOT NULL,description VARCHAR(255));
```

- Verify tables

```
SHOW TABLES;
```

```
mysql> SHOW TABLES;
+-----+
| Tables_in_laundry_system |
+-----+
| categories                |
+-----+
1 row in set (0.00 sec)
```

Starting the System

- Open Backend project folder
- Replace application properties located at `src/main/resources` with the detail of your database.

```
spring.datasource.url=jdbc:mysql://localhost:3306/[database name]?useSSL=false&serverTimezone=UTC
spring.datasource.username=root
spring.datasource.password=[MySQL root password]
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.database-platform = org.hibernate.dialect.MySQL5Dialect
spring.jpa.generate-ddl=true
spring.jpa.hibernate.ddl-auto=create
```

- Open Terminal
- type `mvn clean package`
- type `cd target` to navigate to target folder
- type `java -jar springboot-backend-<version>.jar` to run backend system

Replace <version> with the actual version number of your application JAR file

FRONTEND

Required installation:

[Node JS](#)

- Open CMD
- Type `npm install -g @angular/cli` to install angular cli
- Open project folder(frontend) in VsCode
- Open terminal
- Type `npm install` to install dependencies
- Type `ng serve` to run frontend
- Go to `http://localhost:4200/category/index`