

Groovify Web Application – Developer Manual

Groovify is a Java-based web application built with Spring Boot. It includes features for registration, login, logout, secure password hashing, and database integration. It uses Thymeleaf templates and CSS for a clean user interface.

This guide explains how to install, configure, and run the application.

1. System Requirements

- * Java JDK 21 or higher (we have not tested other versions)
- * Git (latest version)
- * MySQL 8.0 (we have not tested other versions)
- * Web browser (Chrome, Firefox, or Edge)
- * IntelliJ IDEA IDE

2. Repository Setup

Step 1: Locate our GitHub repository.

<https://github.com/jclaassen123/Groovify>

Click the green Code button and copy the “https” link.

Within your IntelliJ IDEA IDE, open a terminal and navigate to your desired directory. Then, run the “git clone” command and paste the https link after. Your command should look something like this:

```
git clone [https://github.com/jclaassen123/Groovify]
```

You have now cloned our repository!

Make sure you are in the Groovify folder, you may have to run “cd Groovify” to do so.

3. Database Configuration

Step 1: Create the Database

In MySQL, create a new user called “groovify” with a password of “supersecret”.

Then, create a database called groovify.

Step 2: Configure the Database

Edit `src/main/resources/application.properties` and confirm this information:

```
spring.datasource.url=jdbc:mysql://localhost:3306/groovify
spring.datasource.username=groovify
spring.datasource.password=supersecret
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect
```

4. Building the Project

Verify the `build.gradle` file includes dependencies for:

- * `spring-boot-starter-web`
- * `spring-boot-starter-thymeleaf`
- * `spring-boot-starter-data-jpa`
- * `mysql-connector-j` or `h2`
- * `spring-boot-starter-validation`

Build the project:

```
./gradlew clean build
```

If successful, you will see “BUILD SUCCESSFUL”.

5. Running the Application

Start the application using:

```
./gradlew bootRun
```

Access the application at:

<http://localhost:8080/>

You have now successfully cloned, built, configured, and run the Groovify application. You can register and log in users, test the functionality, and it all handles errors. Groovify demonstrates secure and maintainable web development using Spring Boot, and allows users to explore copyright free music all for free!