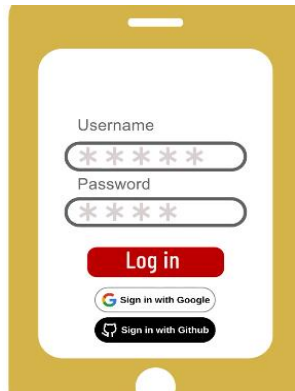


## 13.Implementing OAuth2



### Implementing Google and GitHub OAuth2 Login in Spring Boot

This guide will help you set up **Google OAuth2 Login** and **GitHub OAuth2 Login** for your Spring Boot application. It includes the configurations and steps required to integrate both providers successfully.

#### Project Setup

##### 1. Prerequisites

- **Java 17+**
- **Spring Boot 3.0+**
- **Maven**
- **IDE (e.g., IntelliJ, Eclipse)**

- Google and GitHub developer accounts to register your application.

**Project**

☐ Gradle - Groovy ☐ Gradle - Kotlin ☒ Java ☐ Kotlin ☐ Groovy

☒ Maven

**Spring Boot**

☐ 3.3.0 (SNAPSHOT) ☐ 3.3.0 (M3) ☐ 3.2.5 (SNAPSHOT) ☒ 3.2.4

☐ 3.1.11 (SNAPSHOT) ☐ 3.1.10

**Project Metadata**

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 22 ☒ 21 ☐ 17

## 2. Maven Dependencies

Add the following dependencies in your [pom.xml](#) for Spring Security OAuth2 support:

```
<dependencies>
  <!-- Spring Security OAuth2 -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-oauth2-client</artifactId>
  </dependency>

  <!-- Spring Web -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>
</dependencies>
```