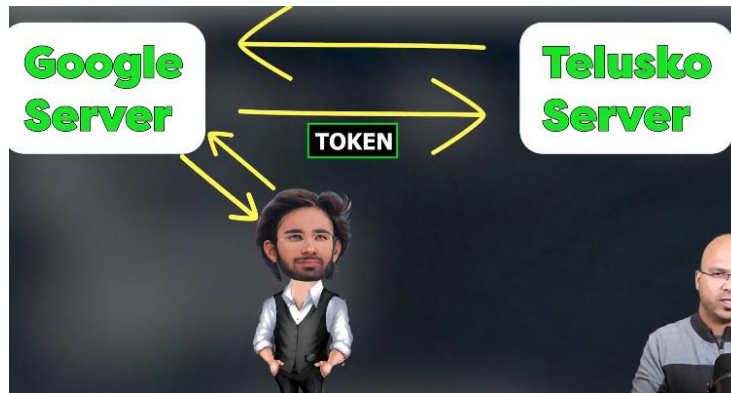
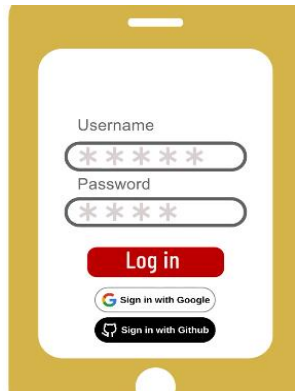


## 13.Implementing OAuth2



### **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.

The screenshot shows the Spring Initializr project configuration form. It includes sections for Project, Language, Spring Boot, and Project Metadata. The Project section has radio buttons for Gradle - Groovy, Gradle - Kotlin, Java (selected), Kotlin, and Groovy. The Language section has radio buttons for 3.3.0 (SNAPSHOT), 3.3.0 (M3), 3.2.5 (SNAPSHOT), 3.2.4 (selected), and 3.1.11 (SNAPSHOT). The Project Metadata section includes fields for Group (com.telusko), Artifact (SpringOAuthDemo), Name (SpringOAuthDemo), Description (Demo project for Spring Boot), and Package name (com.telusko.SpringOAuthDemo). The Packaging section has radio buttons for Jar (selected) and War. The Java section has radio buttons for 22, 21 (selected), and 17. A white arrow points from the Java 21 radio button to the Java 21 radio button.

## 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>
```