

Using Spring Boot 3 with Spring Security 6

By Ramesh Fadatare (Java Guides)

Migration and Clean up

1. Spring boot version 3.0.x and Java 17 or later
2. Change package name from javax to jakarta
3. Change the Hibernate dialect
4. Drop and create new database
5. Insert records in posts and comments table

Adding **Spring Security** to Spring Boot and Exploring Spring Security **Auto Configuration**

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Spring Security 6 with Spring Boot 3

1. Spring Security is a framework that provides authentication, authorization, and protection against common attacks. With first class support for securing both web and reactive applications, it is the de-facto standard for securing Spring-based applications.
2. Spring Boot provides a **spring-boot-starter-security** starter that aggregates Spring Security-related dependencies together.
3. Removed deprecated APIs / Classes / Annotations:
 - **WebSecurityConfigurerAdapter**
 - **EnableGlobalMethodSecurity**
 - **antMatchers**
 - **authorizeRequests**

Spring Boot Auto Configuration for Spring Security

Spring Boot auto configures below features:

- **spring-boot-starter-security** starter that aggregates Spring Security-related dependencies together.
- Enables Spring Security's default configuration, which creates a servlet Filter as a bean named **springSecurityFilterChain**. Provides default login form for you.
- Creates default user with a username as **user** and a randomly generated password that is logged to the console (Ex: 8e557245-73e2-4286-969a-ff57fe326336).
- Spring boot provides properties to customize default user's username and password
- Protects the password storage with **BCrypt** algorithm
- Lets the user log out (default logout feature)
- CSRF attack prevention (enabled by default)
- If Spring Security is on the classpath, Spring Boot automatically secures all HTTP endpoints with "basic" authentication.

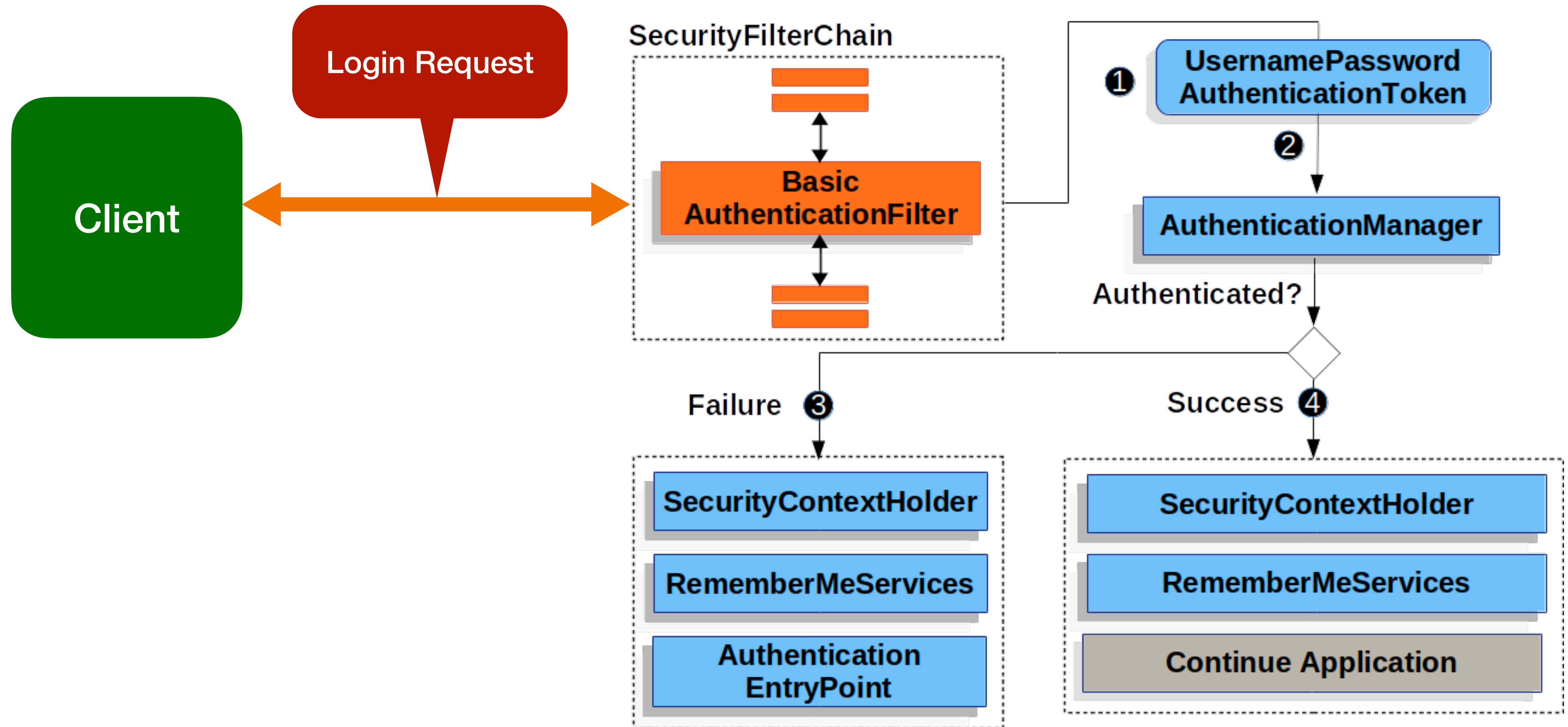
Implementing Basic Authentication using Spring Security

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How **Basic Authentication** Works in Spring Security

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How Basic Authentication Works



Securing **REST API's** with In memory Authentication

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Create JPA Entities **User** and **Role** (Many to Many Mapping)

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Creating JPA Repositories

UserRepository and **RoleRepository**

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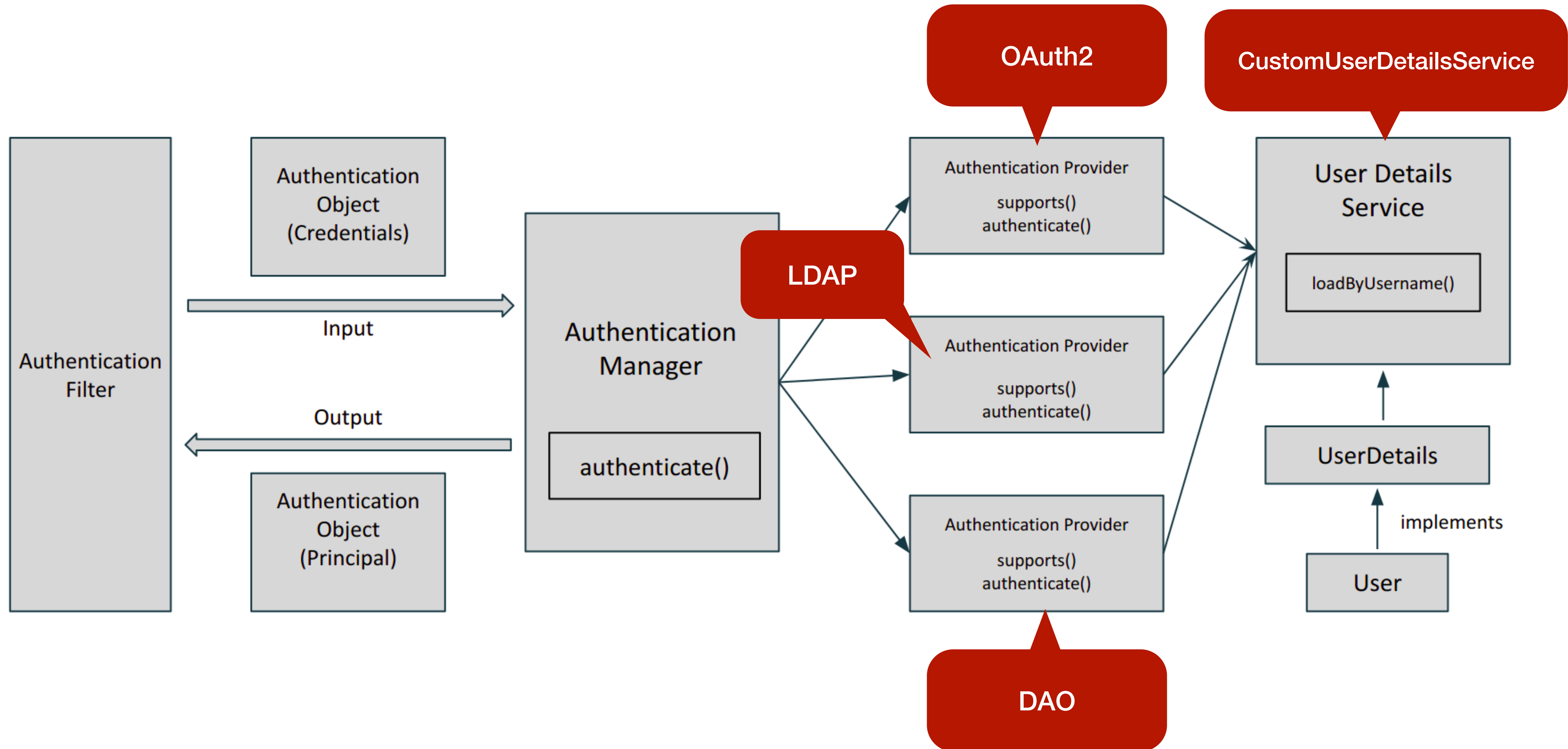
UserDetailsService Interface Implementation to Load User from Database

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How Spring Security Database Authentication Works

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How Database Authentication Works



Securing REST API's with Database Authentication

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