

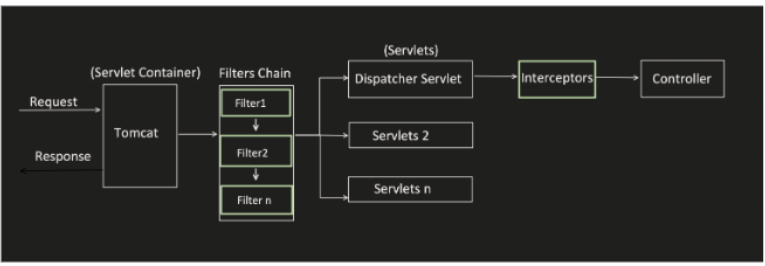
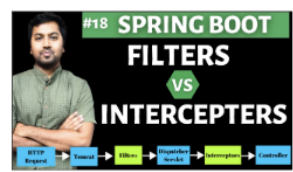
And we need to protect our resources from these attacks, and for that we need proper:

- **Authentication** : Verify who you are
- **Authorization** : Checks what you are allowed to do

That's where Spring boot Security comes into the picture.

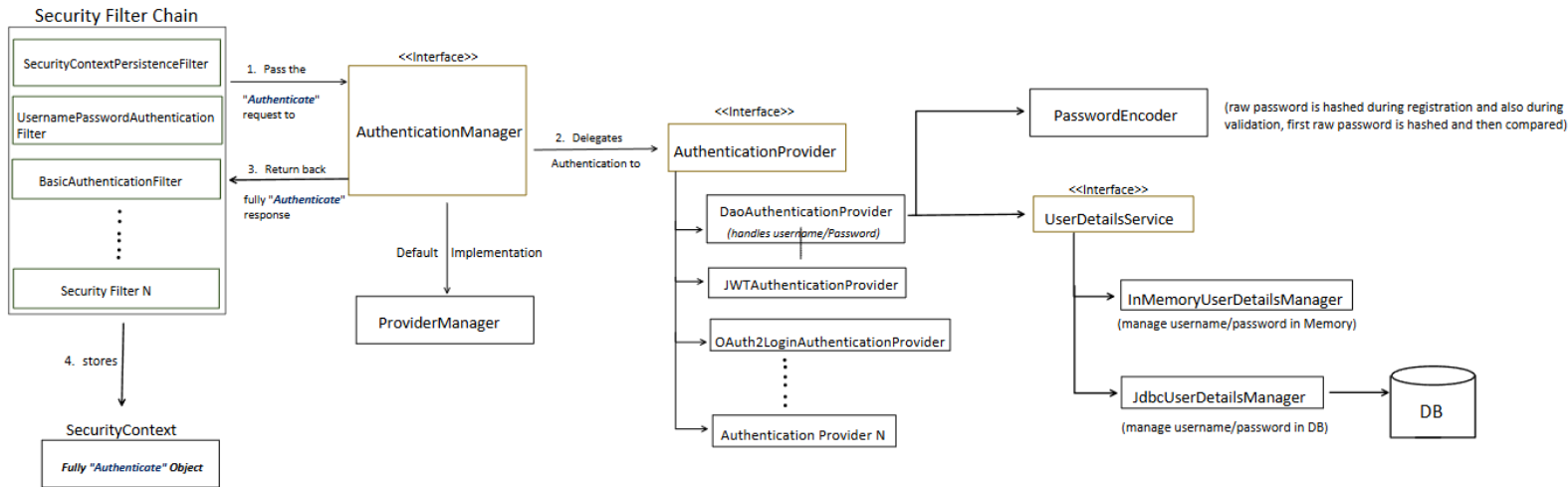
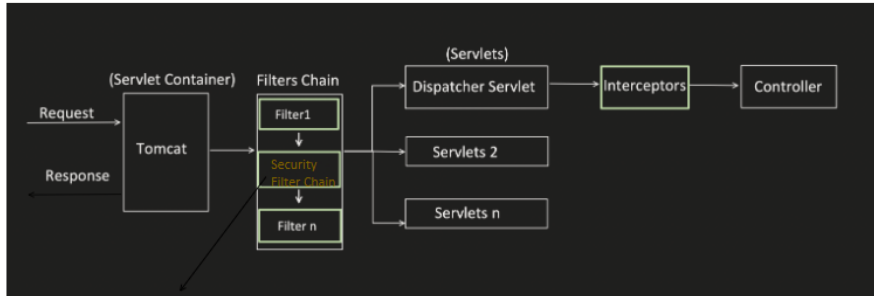
Architecture of Spring Boot Security

In video no **#18**, we have already seen, what are filters and where exactly they fit.



Now, lets enhance it for understanding Spring Security

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If spring boot project is already present, add below dependencies:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-security</artifactId>
</dependency>
<dependency>
  <groupId>org.springframework.session</groupId>
  <artifactId>spring-session-jdbc</artifactId>
</dependency>
```

Provides core feature like:

- Authentication
- Authorization
- Security filters etc.

Enable persistent session management
Using relational DB.

If setting up new Spring boot project:

Go to spring initializer i.e. "start.spring.io"

The screenshot shows the Spring Initializer web application interface. It includes sections for Project, Language, Spring Boot, Project Metadata, and Dependencies. The Project section has radio buttons for Gradle, Groovy, and Maven (selected). The Language section has radio buttons for Java (selected), Kotlin, and Groovy. The Spring Boot section has radio buttons for 3.3.0 (SNAPSHOT), 3.3.0 (M1), 3.2.4 (SNAPSHOT), 3.2.3 (selected), 3.1.10 (SNAPSHOT), and 3.1.9. The Project Metadata section has input fields for Group (com.conceptandcoding), Artifact (learningspringboot), Name (springboot application), Description (project for learning spring boot), and Package name (com.conceptandcoding.learningspringboot). The Packaging section has radio buttons for Jar (selected) and War. The Java section has radio buttons for 21 and 17 (selected). The Dependencies section has a button labeled 'ADD DEPENDENCIES... (0 = 0)' and lists 'Spring Web' and 'Spring Security' as available dependencies.

SpringBoot (ConceptAndCoding)

Java 21 17

And if we want to persist the session in relational DB, then we need to add below dependency in pom.xml

```
<dependency>
  <groupId>org.springframework.session</groupId>
  <artifactId>spring-session-jdbc</artifactId>
</dependency>
```

Now, lets understand the end to end flow with an example for each individual Authentication and Authorization mechanism:

1. Form Login (Stateful)

2. Basic Authentication (Stateless)

3. JWT (Stateless)

4. OAuth2

- i. Authorization Code (Stateful or Stateless)
- ii. Client Credentials (Stateless)
- iii. Password Grant (Stateless)

5. API Key Authentication (Stateless)

Etc..

Very hot weather Now

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