There are various types of attacks:

- · CSRS (Cross-Site Request Forgery)
- CORS (Cross-Origin Resource Sharing)
- SQL Injection
- XSS (Cross-Site Scripting)

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

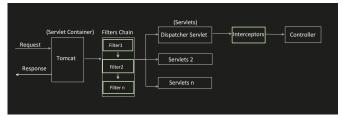
- Authentication : Verify who you are Authorization : Checks what you are allowed to do

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

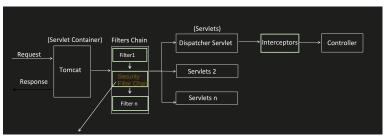
Architecture of Spring Boot Security

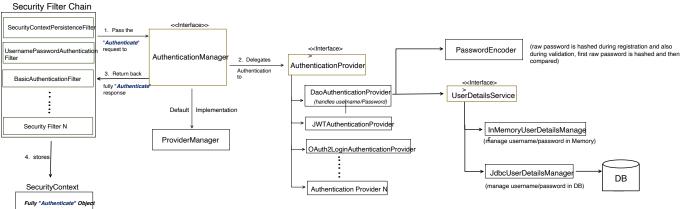
In video no #18, we have already seen, what are filters and where exactly they fit.



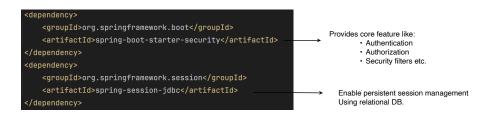


Now, lets enhance it for understanding Spring Security





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



If setting up new Spring boot project:

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



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

> <groupId>org.springframework.session <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)
- Basic Authentication (Stateless)
 JWT (Stateless)
- 4. OAuth2
 - i. Authorization Code (Stateful or Stateless)
 - ii. Client Credentials (Stateless)
 - iii. Password Grant (Stateless)
- 5. API Key Authentication (Stateless)

Etc..