

# INTRODUCTION

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## What is Spring Security ?

- Spring Security is a framework which provides various security features like : [Authentication](#), [Authorization](#) to create secure Java Enterprise Applications.
- It is a sub-project of Spring Framework which was started in [2003](#) by [Ben Alex](#). Later on, in 2004, It was released under the [Apache License](#) as [Spring Security 2.0.0](#).
- Currently latest version of Spring Security is [6.0](#).
- Spring Security helps developers with easier configurations to secure a web application by using standard username/password authentication mechanism.
- Spring Security provides out of the box features to handle common security attacks like [CSRF](#), [CORS](#). It also has good integration with security standards like [JWT](#), etc.
- Dependency for Spring Security :

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

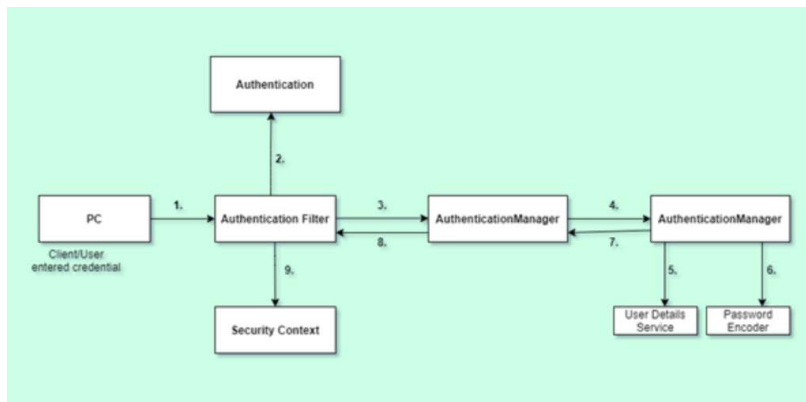
## Authentication & Authorization :

- Authentication verifies the identity of a [user or service](#) i.e; [Authenticate user](#) and
- Authorization determines their [access rights](#) i.e; [give permission](#) to access.

AUTHENTICATION	AUTHORIZATION
In authentication, the identity of users are checked for providing the access to the system.	In authorization, person's or user's authorities are checked for accessing the resources.
Authentication done before authorization.	Authorization always happen after authentication.
It needs usally user's login details.	It needs user's privilege or role.
If authentication fails usually we will get 401 error response.	If authorization fails usually we will get 403 error response.

For example as a bank customer/employee in order to perform actions in the app. We need to prove our identity.

For example once logged into the application, my roles, authorities will decide what kind of action I can do.



**Filter** : A filter is an object that is invoked at the preprocessing and postprocessing of a request.