**Spring Security**

Spring Security is powerful and highly customizable authentication and access control framework for Java application.

Spring Security is a framework that focuses on providing both authentication and authorization to Java application.

**Authentication**

Authentication is a process to verify the identity of user.

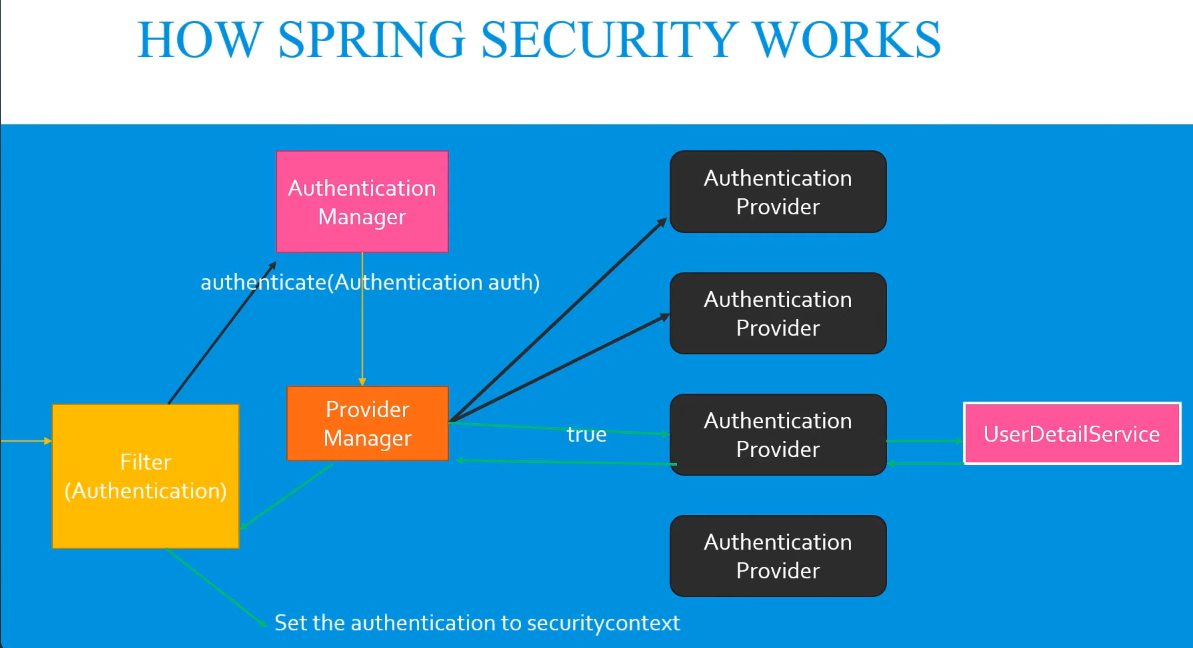
Spring security supports various authentication mechanisms such as form-base, basic, digest, OAuth, JWT.

**Authorization**

Authorization means it gives the permission to user to access a specific resource or functions after successful Authentication.

It also provide user based access control authorization where user can access a resource as role bases assigning.

**How Spring Security Works**



First Request is came to Filter (Authentication)

Filter will create object of Authentication with basic information’s and it will forward this request to Authentication manager.

Now authentication manager responsibility is to authenticate to this request is valid or not.

But this manager is abstraction mean it has not implemented feature so for that there is number of authentication provides are available like Token base, Password base and so on.

Now this authentication manager will call Provide manager.

Provider manager will check which best Authentication provider for application.

Authentication provider will take an help oh UserDetailService.

UserDeatilService have data and now Authentication provider will call authenticate function.

After this function it will return valid authentication object and in this object having validity to Provider manager.

Now provider manager will provide this valid authentication object to Filter.

Lastly Filter will set this authentication into SecurityContext.

Now application works with authenticate APIs with valid user.