***Java Spring Project***

**IDE used**: IntelliJ IDE (more preferred).

**POSTMAN** is also required for verification of API end points.

For this project, you need a boilerplate code for spring boot application. To generate this code, you have two options:

**Note: We will be using “Maven” as dependency management tool but if you want to use “Gradle” you can. You need to give this input while initializing your project.**

1. If you have Ultimate version of IntelliJ:
   1. Follow the steps given in below link:

<https://www.jetbrains.com/idea/guide/tutorials/getting-started-spring-data-jpa/creating-spring-boot-project/#:~:text=Use%20the%20Spring%20Initializr%20to,you%20can%20call%20it%20SpringDataJPA%20.>

1. If you have community version of IntelliJ:
   1. Follow the steps given in below link:

<https://www.javatpoint.com/spring-initializr>

You need to download zip folder of spring initialized code. You can download that code from below link using steps given in above link.

<https://start.spring.io/>

After extracting zip file, follow following steps:

1. Go to file.
2. Go to New.
3. Click on “Project from Existing Source”
4. Navigate to the “pom.xml” file of your downloaded project and click “open” or “Ok”. This will start building your project and download all files related to dependencies.

Or you can open your project file and build your project, this will also download dependencies.

You can directly use the demo project given and but still you need to check and download dependencies.

Dependencies required:

* Thymeleaf
* Spring Web
* Spring Security

Reference Links:

<https://spring.io/guides/gs/securing-web/>

<https://www.baeldung.com/registration-with-spring-mvc-and-spring-security/>

<https://www.youtube.com/watch?v=aRLoSDOlU3w>

<https://www.youtube.com/watch?v=TNt3GHuayXs>

***Demo code explanation***

In the template package, all html files are defined.

In MvcConfig file, all URL paths are defined and are linked to some html files defined in project.

In WebSecurityConfig file, authorizations for html files are defined. Other function in this file acts like a memory for login details. In this case, I have used static user details i.e., username=user and password = password. But you need to make it dynamic. For this case you need to make use of database.