Spring Security 5 - a quick introduction

- These sequence of steps will give you a quick introduction on how to create a new Spring Boot web application and apply Spring security with default HTTP Basic Authentication to it.
- 2. Create a new Spring Web application project, named eLibrary, using Spring Boot and Spring Initializr and select/include only the web and thymeleaf dependencies (Recall/See how to accomplish this, from the tutorial in Lab6 *eLibrary My first Spring Boot application*).
- 3. Open the pom.xml file and add the following additional dependency, to provide support for using layout feature through the thymeleaf-layout-dialect:

- 4. Prepare your static content/pages, and organize them in a sensible folder structure, so that Spring Security configuration can later be applied to the website, easily and in an orderly way by using wildcards in the urls.
- 5. Run the webapp, note that there is no security enabled.
- 6. Next, to add Spring Security, simply add the following dependency into your pom.xml:

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

- 7. Re-run the webapp; look through the console log messages and notice that default password that has been generated exist. Copy it.
- 8. Open the webapp in a browser, notice that a Login screen appears, showing that Spring security is now enabled. And its default configuration is for Basic authentication.
- 9. Enter the Username as: user and paste in the generated password, to login.
- 10. To temporarily disable Spring security, two options are 1) comment out the Spring Security dependency in the pom.xml OR 2) add the argument to the @SpringBootApplication annotation to the webapp's main startup class to have it become @SpringBootApplication(exclude={SecurityAutoConfiguration.class})
- 11.To customize/replace the default username (user) and the generated password, simply add the following 2 properties to the application.properties file:

```
spring.security.user.name=elib-user
spring.security.user.password=test123
```

12. To find out more on Spring 5 Security visit the Spring site at http://spring.io