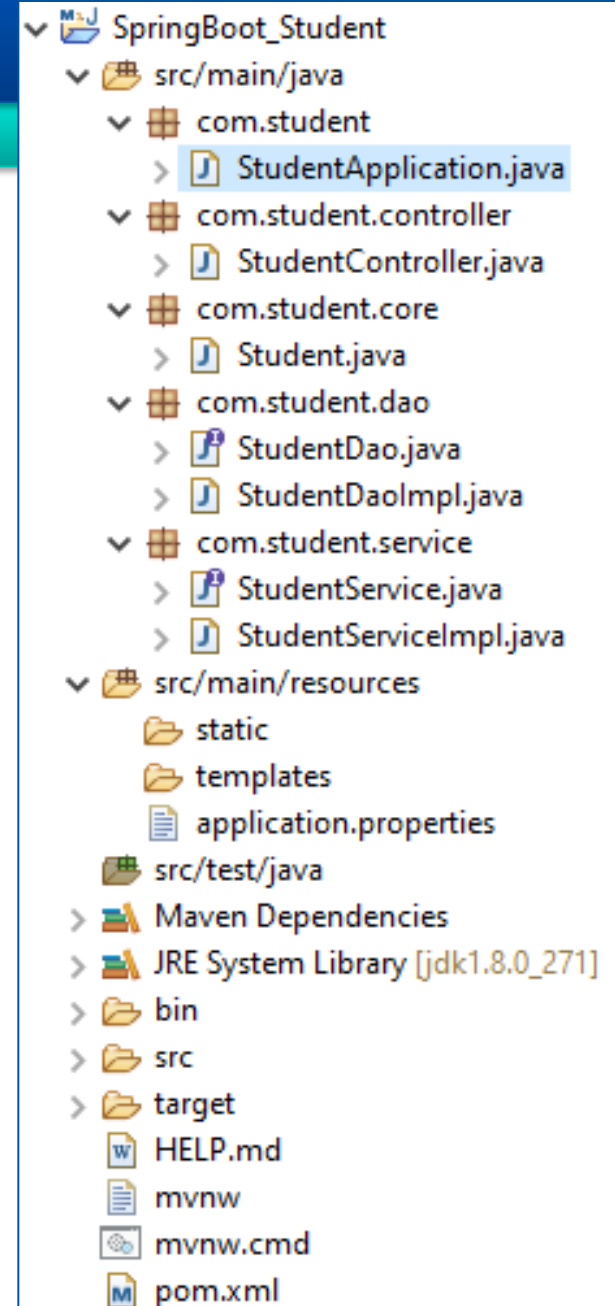


Lab 2.1

Spring Boot

- Your lab setup directory will have a Spring Boot starter project that we will use throughout the labs in this course, open it up as a maven project in your IDE
- It will have the structure as shown opposite. Familiarize yourself with the location for;
 - application.properties
 - Maven pom – by looking in the pom.xml, you will see the Spring Starter dependencies that will drag into our project the required Spring artifacts
 - The Application runnable class (StudentApplication)
- In the class StudentApplication, annotate the class with;

```
@SpringBootApplication  
@RequestMapping("/")  
@RestController
```



Lab 2.1

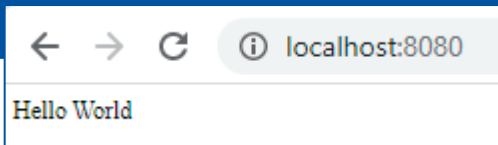
Spring Boot

The `@RestController` and `@RequestMapping` effectively expose the class as a Spring Controller, an endpoint that the built in `DispatcherServlet` will delegate to based off a path, in this case the root context or `/`

The class has one method annotated with `@GetMapping` and returns a `String`, this implies that the method is triggered by an HTTP Get Request to the root context and writes a `String` to the `Response Output stream`. We will cover this all later, for now we want to launch the application and see a result

Launch the Spring boot Application by running the `StudentApplication` main method as a Java Application. Take a look at the console to verify that it has created the `WebApplicationContext` and launched the embedded Tomcat server

In a browser navigate to `localhost:8080`



```
Initializing Spring embedded WebApplicationContext
Root WebApplicationContext: initialization completed in 2630 ms
Initializing ExecutorService 'applicationTaskExecutor'
Tomcat started on port(s): 8080 (http) with context path ''
Started StudentApplication in 4.682 seconds (JVM running for 5.537)
Initializing Spring DispatcherServlet 'dispatcherServlet'
Initializing Servlet 'dispatcherServlet'
Completed initialization in 1 ms
```