Questions Week 2 Quiz

1. How can we create our initial Spring Boot codes without coding?

* CLI Spring Boot

Check version of spring version by typing

$ spring –version

$ spring init <filename>

* Spring Boot initializr

Head to [Spring Initializr](https://start.spring.io/), then select options that suits your project and click on generate button to download th zip file and import into code editor.

1. Explain MVC design pattern

MVC can be understood as Model, View and Controller where model is a representation of data in a system, view layer is responsible for displaying data, controller is directing incoming user requests.

1. Which file (configuration file) do we use to configure a Spring Boot application?

Application.properties file

How can we have multiple configuration files for different environments?

By defining active profile and proper naming format for example development environment can be define as applications-dev.properties, testing environment defined as applications-test.properties. The format goes like this application-{profile}.properties.

How can we use a specific configuration file?

Define the active profile inside application.properties like configuring a port to each of a profile.

1. How to create an endpoint URL in Spring Boot that uses HTTP POST and accepts a person’s name and age?

@PostMapping  
public void registerNewUser (@RequestParam String name, @RequestParam Integer age) {}

1. What happens when we explicitly throw an Exception from a controller?

How to handle Exception in order to respond with appropriate error messages?

@ExceptionHandler which used to annotate method for that particular controller.

What is actuator?

Actuator provides monitor on app, gathering metrics, understanding traffic and the state of database from production ready application.

1. What types of tests you can create?

There are 2 types of testing we can create: unit test and integration test. Unit test is to test out each unit by not running the whole application such as controller unit. Examples of the testing are Junit, Mokito and etc. Whereas Integration test is running the whole application and all layers.

1. What do you need to do to changes your Spring Boot application database from H2 to MySQL (for example)?

Import dependencies into pom.xml and specify attributes in the application.properties file

1. What is differences b/w @RestController and @Controller Annotation?

|  |  |
| --- | --- |
| RestController | Controller Annotation |
| For making restful web service to handle requests made by client | Mark a class as controller role |
| Added recently with combination of @Controller and @RespondBody | Only @Controller |
| Involved @Get @Post @Put @Delete | none |
| Controller that returns JSON file as response | Controller that returns only HTTP response. |
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