HW 5 - REST API - Java Spring Boot

Due: April 23, 2023 (Sunday) 11:59pm

Part 1 – REST API - Hello World: (Return 'Hello World!' and 'Welcome to CS 3342') (10%) Description:

The purpose of this part is to get familiar with Java, IntelliJ, and REST API.

- 1. Install Java SDK 11 and IntelliJ in your computer. (Google the web/YouTube for these.)
- 2. Use Spring Initializer to create a Java project. (https://start.spring.io/) Select Maven



(https://www.youtube.com/watch?v=2qvd-UiAVfk)

- 3. Create a Java class called WelcomeController.
- 4. Add code to the above project to print 'Hello World!' and 'Welcome to CS 7319!' on the root ("/") and "/welcome" page respectively. (A little bit different from the above YouTube.)

```
5. @RestController
   public class WelcomeController {
      @GetMapping("/")
      public String HelloWorld() {
         return "Hello World";
      }

      @GetMapping("/welcome")
      public String Welcome() {
         return "Welcome to CS7319";
      }
}
```

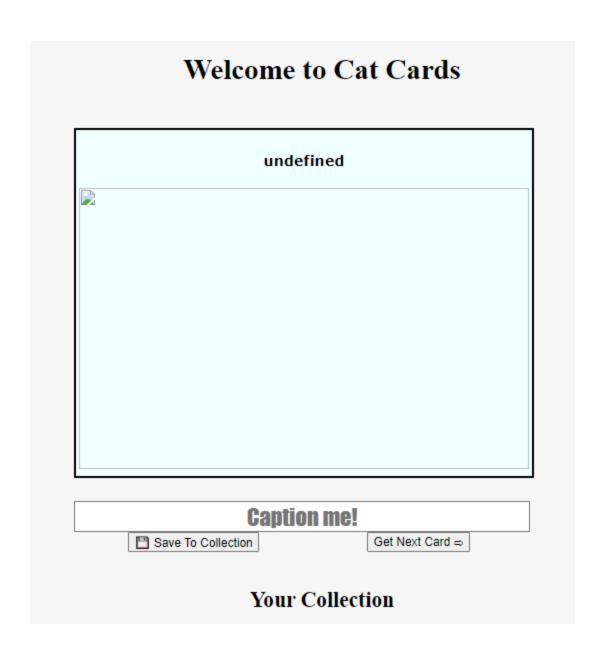
- 6. Take screenshots of the above pages and put them in a Word Doc.
- 7. Zip the source codes.
- 8. Submit the files to Canvas.

Part 2 – REST API - Cat Cards: (Return Cat facts and pics.) (90%) Description:

The purpose of this part is to get familiar with the REST API – get/post/put/delete and database operations (Postgres).

- 1. Install Postgres (PgAdmin) in your computer. Use port 5432 and postgres1 as password for postgres i.e. username/password postgres/postgres1 Postgres server 12 will be fine. (https://www.youtube.com/watch?v=0n41UTkOBb0)
- 2. Open the Java base code for part2 in IntelliJ (unzip Homework2.zip).
- 3. Open PgAdmin and create a database called 'catcards'.
- 4. Open the query tool under 'catcards' and run the catcards.sql to create the database tables for this project.
- 5. Read the Readme.md file and fix the missing codes.
- 6. Take a screenshot of the catcards and put them in a Word Doc after you fix the codes.
- 7. Zip the source codes.
- 8. Submit the files to Canvas.

The Base code will show this on the web page:



After you fix the code, it should display something like this:

Welcome to Cat Cards

In 1879, Belgium unsuccessfully tried to use cats to deliver mail.



Caption me!

Save To Collection

Get Next Card ⇔

Your Collection