PROG3060: ASSIGNMENT 5

Instructions:

- This assignment is done as an individual exercise.
- **Note:** You are responsible for reviewing, complete testing, and final submission.

Questions:

1. Create New Project named FirstNameLastName_Assignment_5.

In this Assignment, you will develop a Java Application with the help of RESTful web services using JAX-RS API to perform CURD Operations. User REST Service as your Project Template and JBOSS/Wilfly as Application Server.

1. Create a Model Class for Employee.java with following Specifications:

```
public class Employee {
  private int id;
  private String
  firstName; private
  String lastName;
  private String
  email; private Date
  hire_date; private
  double salary;

  // Constructor and getters/setters
}
```

2. Configure EmployeeResourse Class:

   a) Set the root Path of EmployeeResourse as @Path("/employees")
   b) Create an object of Map<Integer, Employee> named employeeMap that maps keys(employee_id) to all employee values.
   c) Add some data to your employeeMap.
   d) Implement all HTTP Services:

1. A Simple @GET Service to Display a Message on Application Startup. (Ex: WELCOME TO EMPLOYEE MANAGEMENT SYSTEM)
2. A @GET Service to fetch all Employee Records. It Produces an JSON Response and uses @Path("/all").
3. A @GET Service to fetch a single Employee Record by employee ID. It Produces an JSON Response and uses @Path("/employee/{id}").
4. A @POST Service to create a New Employee Record. It Produces and Consumes JSON MIME Type records.
   (Use Generate request in HTTP Client to execute this operation)
5. A @DELETE Service to delete an Employee Record. It can Produce JSON Response and uses @Path("/{id}").
6. A @PUT Service to Update an existing Employee Record. It Produces and Consumes JSON MIME Type records.
   (Use Generate request in HTTP Client to execute this operation)

3. Test your application with the right URI starting with Application base URI in your EmployeeApplication Class. (i.e /api).

Submission:

1. Be sure to save all changes.
2. Zip the ENTIRE project folder with your solution and upload to the Assignment 5 folder to the eConestoga Portal.

Note: You can submit multiple times if you want. Please mention in comments which submission to evaluate. Also note that if you resubmit after the due date, late penalties apply as per your Program Handbook.