CEGEP VANIER COLLEGE CENTRE FOR CONTINUING EDUCATION Web Services 420-941-VA

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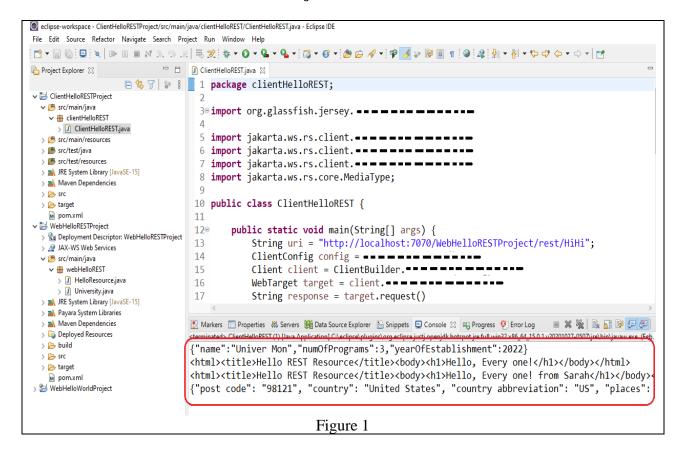
Lab 4: Jersey Client Consuming REST Web Services

Complete all these following programs in class. All *missing coding statements* are presented during class time and in Presentation 4.

Create and Submit a Word file *Lab4WebServicesYourName.doc* which contains Answers of theory questions if any and output screenshots for every Java EE Project. Submit the Java projects too and submit the whole Lab 4 as compressed zip file

1. Creating Client Maven Project

- a) Create a Maven project called **ClientHelloRESTProject**.
- b) Add **Maven Project dependencies** as stated in my YouTube Video Lab 4 in **pom.xml**. Create new package called **clientHelloREST** as shown in Figure 1.
- c) Run Jersey client project **ClientHelloRESTProject** as Java application consuming REST Web Services **WebHelloRESTProject** of Lab 3.



d) Add appropriate statements to consume **one of the public REST Services** you provided in Lab 2. Provide screenshots in word document showing the output as in Figure 1.

2. Maven Project: ClientMathOperationsRESTProject

- a) Create a new Maven project called ClientMathOperationsRESTProject.
- b) Add **Maven Project dependencies** in **pom.xml**. Create new package called **clientMathOperationsREST**.
- c) Create a console Java Client **ClientMathOperationsREST.java** using Jersey Client Framework to consume the REST Web Service **ClientMathOperationsRESTProject** developed in **Lab 3.** You need to deploy **ClientMathOperationsRESTProject** within GalssFish Server.
- d) Add appropriate statements in Java Client to invoke the REST resource using **query string parameters** x, y, z that calls implemented methods calculateSum()/calculatePrd() in path URL mapping ("MathOp"), display media type HTML as shown hereafter.
- e) Add appropriate statements in Java Client to invoke the REST resource using path URL mapping ("/displayListZYZ..."), include appropriate media type and display the output as shown hereafter.
- f) Add appropriate statements in Java Client to invoke the REST resource using path URL mapping ("/OpHashMap ...") using path parameter x as search parameter to access REST resource searching into Hash Map, include appropriate media type and display the output as shown hereafter.