

# COSC 4301 – MODERN PROGRAMMING

## Project 7 – RESTful Services

In Chapter 6 (Section 6.3), we learned about RESTful Services and the REST Architecture.

You learned that the REST architectural style is based on the idea of transferring representations of digital resources from a server to a client. This is the fundamental approach used on the web, where the resource is a page to be displayed in the user's browser. An HTML representation is generated by the server in response to an HTTP GET request and is transferred to the client for display by a browser or a special-purpose app.

You should have studied this in your advanced Java and C++ courses. Most of you have informed me that you did not study this topic or had not taken these advanced courses so in this project, you are not going to write a REST API, but rather see one in action.

You will use one of the many public sandboxes on the internet known as REQ|RES, <https://reqres.in/> for this Project. Go to this website and scroll down to “Give it a try” and perform the following:

1. Click on LIST USERS and note the API request under “Request”. The response from the REST API is shown under “Response” on the right. Take a screenshot of the response showing “Response” and the return code as a JPG or a PNG file and named it Project7-1.xxx (where “xxx” should indicate the file format).
2. Issue the API request, <http://reqres.in/api/users?page=2>, in Microsoft Edge or a non-REST client browser. Take a screenshot of the response showing the API request with the URI in the browser as a JPG or a PNG file and named it Project7-2.xxx (where “xxx” should indicate the file format).
3. Does the response from (1) look different from the response from (2)? Explain your answer in detail based on what you have learned in Chapter 6. **Answer this question in a TEXT file named Program7-3.txt**
4. Repeat Question 1, but this time click on SINGLE USER, SINGLE USER NOT FOUND, and LIST <RESOURCE>. Take a screenshot of each response showing “Response” and the return code as a JPG or a PNG file and named the files Project7-4.xxx, Project7-5.xxx, Project7-6.xxx respectively (where “xxx” should indicate the file format).

Create a folder named, **YourFullName\_Project7**. Copy your image files and the text file to the folder. **Zip the folder, as a “.zip” file, and upload it to Blackboard.**

Read the assignment very carefully to ensure that you have followed all instructions and satisfied all requirements. **You will not get full credit for this project if it is not completed as instructed.**