

CONCORDIA UNIVERSITY

DEPARTMENT OF
COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMP 6231, Winter 2022

Instructor: R. Jayakumar

ASSIGNMENT 3

Issued: Feb. 23, 2022

Due: Mar. 16, 2022

***Note:** The assignments must be done individually and submitted electronically.*

**Web Service Implementation of the
Distributed Appointment Management System (DAMS)**

In this assignment, you are going to implement the Distributed Appointment Management System (DAMS) from Assignment 2 as a web service. Specifically, design the service from Assignment 2 (using the same functions and exceptions) by doing the following:

- Extract the Java client-server implementation by removing the CORBA specific code from your Assignment 2.
- Properly annotate your Java implementation to adapt it as a web service.
- Build the end point files using the `wsgen` command before publishing the service.
- Import the wsdl files using the `wsimport` command.

Your server design should maximize the concurrency in the application. In other words, use proper synchronization that allows multiple guests/managers perform the operations at the same time.

MARKING SCHEME

[30%] *Design Documentation:* Describe the techniques you use and your architecture, including the data structures. Design proper and sufficient test scenarios and explain what you want to test. Describe the most important/difficult part in this assignment. You can use UML and text description, but limit the document to 10 pages. Submit the documentation and code electronically by the due date; print the documentation and bring it to your DEMO.

[70%] *DEMO:* You have to register for a 5–10 minutes demo. You cannot demo without registering, so if you did not register before the demo week, you will lose 40% of the marks. The demo should focus on the following:

[50%] *The correctness of code:* Demo your designed test scenarios to illustrate the correctness of your design. If your test scenarios do not cover all possible issues, you will lose part of marks up to 40%.

[20%] *Questions:* You need to answer some simple questions (like what we have discussed during lab tutorials) during the demo. They can be theoretical related directly to your implementation of the assignment.

QUESTIONS

If you are having difficulties understanding any aspect of this assignment, feel free to contact your teaching assistants (Lab FI: Rajkumar Rakoli rokalirajkumar@gmail.com, Lab FJ: Brijesh Lakkad brijeshlakkad22@gmail.com, Lab FK: Stallone Macwan stallonemacwan@gmail.com). It is strongly recommended that you attend the lab sessions, as various aspects of the assignment will be covered there.