

*Academic Year 2022-2023 Semester 1*

*420371 - Programming with Java EE*

# Assignment B

## Requirements

Each team of candidates is required to propose, design, implement and demonstrate a multi-tiered web application based on the Java EE platform and techniques, with certain creativity, reasonable complexity, and well-designed system architecture. Technically, the system implementation must involve client-side user interfaces (such as web pages, mobile apps, and/or desktop applications), server-side web components, client state maintenance, and database connection.

The assessment will be based on (a) the presentation and (b) the submission.

## Presentation

Each team is required to present the project within 25 minutes, followed by a Q&A session. The presentation should be delivered in English. Candidates are required to:

- a) Introduce the general idea of the project, and highlight the creativity;
- b) Explicitly state all implemented functionalities and features, and demonstrate the system from the end-user' perspective;
- c) Present the design of the server-side system architecture and components, the design of functionalities and interfaces of major server-side components, the database design, and the design rationales beyond them;
- d) Present the mechanisms, methods and skills of collaboration among team members;
- e) Discuss important issues involved during the design and implementation, as well as the corresponding solutions.

## Submission

Each team is required to submit a package consisting of the following materials:

- a) The complete set of source code;
- b) One project report that covers the following contents in the given order:
  - 1) Name of the software system, full names and matriculation numbers of all team

- members, contact number, email address, and other particulars if any;
- 2) The complete list of system functionalities implemented;
  - 3) A user manual (including sample scenarios with user interface snapshots and descriptions), and descriptions on system deployment and configurations;
  - 4) System architecture and component design;
  - 5) Database design;
  - 6) Other technical details and/or information, if any.

*Note: The report should be written in English; file format for submission: PDF.*

- c) The final presentation slides, with the first slide presenting the name of the software system and the full names and matriculation numbers of all team members.

*Note: The slides should be composed in English; file format for submission: PDF.*

Please place the source code (a) and the documents (b and c) into different folders, compress them into one ZIP file, and submit it via *Canvas*.

## Grading Criteria

Grading Criterion	Weight
<b><i>Part A: Presentation</i></b>	
General idea and creativity	10%
System functionalities implemented	30%
Architectural and component design	15%
Database design	5%
Collaboration among team members	5%
Presentation quality	15%
<b><i>Part B: Submission</i></b>	
Source code quality	10%
Documentation quality	10%

**THE END**