

*Academic Year 2017-2018 Semester 1*

*420300 - 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 dynamic 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) a proposal presentation, (b) a final presentation and (c) the submission.

## Proposal Presentation

Each team is required to present the project proposal **within 15 minutes**, followed by a QA session.

The presentation should be delivered in English. Candidates are required to:

- a) Propose the project name, present the general idea, and highlight the creativity;
- b) Propose the major functionalities and workflow from the end-users' perspective;
- c) Present the project plan and schedule, and propose the way of collaboration among team members.

Presentation dates and time slots:

- A. 10:00-11:35, 28 November 2017 (Tuesday)
- B. 10:00-11:35, 1 December 2017 (Friday)
- C. 10:00-11:35, 5 December 2017 (Tuesday)

Presentation venue: 516 Jishi Building, Jiading Campus, Tongji University

## Final Presentation

Each team is required to present the project within 30 minutes, followed by a QA 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 demonstrate the system from the end-users' 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.

Presentation dates and time slots:

- A. 10:00-11:35, 29 December 2017 (Friday)
- B. 10:00-11:35, 2 January 2018 (Tuesday)
- C. 10:00-11:35, 5 January 2018 (Friday)
- D. 10:00-11:35, 9 January 2018 (Tuesday)
- E. 10:00-11:35, 12 January 2018 (Friday)

Presentation venue: 516 Jishi Building, Jiading Campus, Tongji University

## Submission

Each team is required to submit a complete electronic package consisting of the following materials on the date of final presentation:

- 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: 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: PDF.*

The submitted materials should be placed in two separated folders within the package, named as (a) *source* and (b) *documents* respectively.

## Grading Criteria

Grading Criterion	Weight
<b><i>Part A: Proposal Presentation</i></b>	
Project plan and schedule	5%
Presentation quality	5%
<b><i>Part B: Final Presentation</i></b>	
General idea and creativity	5%
System functionalities implemented	25%
Architectural and component design	20%
Database design	5%
Collaboration among team members	5%
Presentation quality	10%
<b><i>Part C: Submission</i></b>	
Source code quality	10%
Documentation quality	10%

**THE END**