

Academic Year 2019-2020 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 Q&A 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, 2 November 2019 (Saturday)
- B. 10:00-11:35, 9 November 2019 (Saturday)
- C. 10:00-11:35, 11 November 2019 (Monday)

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

Final 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 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, 9 December 2019 (Monday)
- B. 10:00-11:35, 10 December 2019 (Tuesday)
- C. 10:00-11:35, 16 December 2019 (Monday)
- D. 10:00-11:35, 17 December 2019 (Tuesday)
- E. 10:00-11:35, 23 December 2019 (Monday)
- F. 10:00-11:35, 24 December 2019 (Tuesday)

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 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.

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
<i>Part A: Proposal Presentation</i>	
Project plan and schedule	5%
Presentation quality	5%
<i>Part B: Final Presentation</i>	
General idea and creativity	5%
System functionalities implemented	30%
Architectural and component design	15%
Database design	5%
Collaboration among team members	5%
Presentation quality	10%
<i>Part C: Submission</i>	
Source code quality	10%
Documentation quality	10%

THE END