LineUp

Version 1 - Spring 2021

Overview

LineUp is a Web Application that helps people stay in line, easing pressure to keep track of people and speed up matching up people. A common use case may be lab sections, while people are waiting for help from TA and mentors. Mentors would sometimes have to join multiple webex calls during a lab and attend to multiple students asking for help simultaneously. With Lineup, TA's could quickly set up and manage sessions by simply opening a browser and showing codes to invite users.

Goals

- 1. Create events and share with users via short codes
- 2. Keep track of people waiting in line/queue
- 3. Allow multiple assistants in one event
- 4. Logs for actions(join, leave, connected, etc.) happened in the event
- 5. State recovery when user come back from offline state
- 6. UI should have an intuitive design

Technologies

From the perspective of adopting needs of students/clients, we planned to make Lineup a Web Application using Java EE, as well as JDBC to communicate with the database(sqlite), which will be used to store user/queue data. JQuery and Bootstrap may be used when building the website.

Division of Tasks

- Testing: Unit test -> Yitao/Xinhao
- Backend/Frontend -> Yitao/Xinhao
- Database design -> Tong
- User Manual Design -> Jane
 - Such as "use case", describe functionality/procedures
- Test Manual -> Jane/Tong
 - functionality test, except the unit test section
- UX Design -> Jane/Tong
 - How the website will look like

Milestones

- 1. (Basic) Set up environment of the web application (Java EE, JDBC, sqlite)
 - a. Database Scheme
 - b. Basic Java EE and JDBC Framework
- 2. (Basic) Documentations:
 - a. More detailed use cases
 - b. Script files
- 3. Coding
 - a. (P0)User System (No Login required, Session Based)
 - b. (P0)Event create and edit
 - c. (P0)User join event via share link, then they choose the queue they want to join
 - d. (P1)Matching process works smoothly
 - e. (P2)Support multiple assistants in event
 - f. (P2)Recovery from unstable Internet connection, close accidentally, etc.
- 4. Testing
 - a. Readme.txt
 - b. Testing Manual
 - c. User manual
 - d. Project Report
 - e. Javadoc
- 5. Presentation: May 3rd

Notes

- Java EE and JDBC are expected to be taught in HW5. The whole project depends on us learning this content taught in class.
- The 1st and 2nd tasks are expected to be finished by the beginning of April. (2 weeks to get familiar with the stack and set up use cases/ finalizing goal)
- The code and testing can be done in parallel and is expected to be finished by April 25th. (25 days for coding)
- The rest of the time (until May 3rd) will be used for revising the report, manual and presentation. (a week for revising)

Team

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Links

https://github.com/NeverBehave/Lineup (Private for now)