W4156 First iteration summary
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1 Demo review

We completed our demo for the first iteration at 3:30 pm on Nov 8th. The demo ran successfully as expected and we got some instructive suggestions from our IA.

2 Progress review

Until the demo day, we almost implemented the user stories and conditions of satisfaction of the user stories below:

"As a lazy person who involves in group consumptions, I hope this app can recognize receipts by simply scanning so that users are free from the tedious typing process. My condition of satisfaction is that receipt in good condition (no destruction and rotation) should be recognized correctly. Once a receipt is accepted by this application, a corresponding order should be created. Each order should include the quantity and price of each item and the extra cost such as tax and tips, where the quantity of item should be modifiable for users to allocate their own items."

Users are able to sign-in, login and logout on our application. Also, users can take a picture of a receipt, and upload to our app. Then, items, quantity, and price can be recognized to plain text. However, the quantity and item names are unmodifiable so far. There is no change in this user story since the revised proposal.

3 CI server

In the first iteration, we did not deploy any test for the front-end part. Because in this stage, we focused on the simple GUI, and context switch to build a skeleton for our application and have not implemented the authentication yet. In that sense, same as our IA, we thought it is not very necessary to have tests on the front-end so far.

For the server-side, the CI server we chose is Jenkin because Travis does not support python 3 on macOS yet. Jenkin is a user-friendly CI server which provides the integration of Github. In order to generate the xml test report, we used xmlrunner, a unittest test runner, which is able to save test results as xml format[1]. Also, we encountered a problem that testing OCR on the server leads to the breaking-down of the server due to lack of RAM (only 1GB for the free trial), so we only test our database.

4 Future work

For the rest of term, tasks are no longer to be split by front-end and back-end. Whereas each team member is assigned a functionality to develop as a full-stack developer. Qianrui and Yushi will continue to work on those user-related functionalities including friend connection, and group creation. While Zhihao and Qian will start to work on receipt-related functionalities including item allocation and payment calculation which are specified in user story 2 and 3. Then two sub-team should integrate their work together to guarantee an MVP. Afterward, SQLite may be involved in to display some content when users are offline. Those work should be done by the deadline of the second iteration (Nov 27th).

5 Github link

https://github.com/DoDutchAoA/Do-Dutch

References:

[1] https://github.com/xmlrunner/unittest-xml-reporting