Project Status Report Team1

<Book Exchange>

Submitted: < April 30, 2020>

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| **Prepared By:** | Machida Hiroaki |
| **Date Prepared:** | April 30, 2020 |

**Accomplishments Since Last Report**

* **Whole User Interface Improvement – menu and transaction flow (Hiroaki)**

Users move around pages on menu and know the transaction status from transaction flow visualization. Menu implemented on iteration 2. The dashboard is divided into transaction steps and orders in each step are shown in the section accordingly. Hiroaki implemented it and updated the user manual.

* **Paypal Payment (Shaurya)**

The application should keep the status on whether a user already makes a payment to another user. Paypal.me will be used. Shaury was working on implementation, but encountered issues with the current infrastructure. Overhaul is needed but no time because of workload outside class. Not completed.

* **Barcode Reader (Shenjie + Hiroaki)**

ISBN, that is a unique identification for a book, should be automatically input by uploading the bar code of a book. Shenjie successfully feed the camera data stream into the screen with Dynamsoft Barcode Reader SDK, but was not able to resolve a license issue. Hiroaki is also looking into jsqrcode, quaggaJS, OpenWinesOCR, SlaRle.js, javascript-barcode-reader-liium and unix-toolbox.js-exact-image. Hiroaki chose quaggaJS for three reasons: 1. Working on client side, 2. Light-weight, 3. Article about mechanism (<https://www.oberhofer.co/how-barcode-localization-works-in-quaggajs/>) is available, and implemented it.

* **Return Book (Hiroaki + Shaurya)**

Users can request refunds if there are issues on the book after receiving the book. The user requests refunds on the application and the application should keep track of the status. This functionality is scoped out because of the workload of the iteration 2 remaining and its implementation.

* **Auto Complete Book Cover (Shenyuan + Shenjie)**

Application automatically downloads images of book covers from the internet based on the title of books. Images are taken by ipics, that takes images from iTunes. Shenyuan implemented it.

* **Recommendations Engine (Amol + Peiyan)**

Recommendations engine is a feature that allows users to receive recommendations of new arrival of books based on their interest area. The user dashboard would have a space of recommendations’ from the system that match the user’s interests. User’s interest would be captured through user - preferences. User can update his/her preferences and recommendations list should show in dashboard UI. An alternative public ML based API provider (monkeylearn) for classifications (learning based) model for recommendations. Amol completed implementation for individual branch is done but not merged because too many commits just before the iteration 3 and Amol has work. No time to solve conflicts and not completed.

**Plans to do for Next Report**

No further iteration.

**Key Issues, Risks & Concerns**

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| **Item** | **Action/Resolution** | **Responsible** | **Completion Date** |
| [Risk] Dev env setup | Not everyone set up dev env  [Action] Set up dev env in face-to-face  [Result] Everyone has set up the dev env. | Ding Shenjie | 2/25 |
| [Risk] Member skills | Not everyone familiar with React & Redux.  **[Action] Follow up questions from members frequently on Slack.** | Sinha Shaurya |  |
| [Risk] High workload functions | It’s very likely that there will be conflicts among functions for high workload development.  **[Action] In advance, write user stories, screen drafts, and db schemas.** | Each member |  |
| [Issue] High workload outside class | Some members have high workload outside of class and cannot proceed tasks.  **[Action] Made project rule and follow them.**  -No-show: agree things without someone not attending unless notified.  -Over-due task: change task owner.  -Over-due feedback: not reflected in principle. | Machida Hiroaki |  |
| [Issue] Coronavirus pandemic | Because of the coronavirus pandemic[13], we are no longer able to do meetings in person. Difficult to do pair programming and good communication. Implementation progress is not good.  [Action] Reschedule and change the scope after iteration 2.  [Comment] We saw this as a risk, but changed to an issue, since barcode reader and paypal payment are not completed by iteration 2. That is because we could not support each other in face-to-face. One action Shenyuan took to mitigate the issue is to share issues by video recordiout.ng with mobile phone and ask help.  [Result] the Return Book feature is scoped | Machida  Hiroaki | 4/20 |

**Status on iteration 3**

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| **Overall** | **Y** | Good functionalities are implemented but not all functionalities are completed. UI Improvement, Barcode Reader and Auto Complete Book Cover are completed. Paypal payment and Recommendation Engine are not completed because of workload outside clas. Note that Auto Complete Book Cover is not merged to the master but marked as complete. See “Accomplishments Since Last Report” for the details of functionalities and reason why Auto Complete Book Cover is marked as complete. |

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| Schedule | **Y** | Not all the functionalities on iteration 3 are implemented, but the due of project has come. The status of completion is mentioned on the Overall. |
| Resources | **Y** | Team members were not fully utilized. Because of corona virus pandemic, some members could not have face-to-face support. As mentioned on "Key Issues, Risks & Concerns", we tried to handle no face-to-face support by sharing questions with mobile phone video. |
| Scope | **Y** | A few functionalities in the scope were not implemented, but those are nice-to-haves. The Return Book functionality is scoped out just after iteration 2 because of the workload of the iteration 2 remaining and its implementation. No other changes on the scope of functionalities. See “Accomplishments Since Last Report” for details of scope. |

**Schedule**

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| **Stage (Sprint)** | **Target Completion** | **Revised Completion** | **Comments** |
| **Iteration1 (Must-have)** | 3/5 | 3/5 | Done |
| Integration test automation framework setup[14] | 2/20 | 2/20 | Hiroak + Shauryai Done |
| Staging environment setup | 2/20 | 2/20 | Hiroaki Done |
| Continuous integration environment setup[15][16] | 2/20 | 2/20 | Hiroaki Done |
| Minimum user story[17][18] | 2/20 | 2/20 | Hiroaki & Shaurya Done |
| User review for user | 3/4 | 3/4 | Amol Done |
| Post for buying book | 3/4 | 3/4 | Shenyuan Done |
| Autocompletion for search | 3/4 | 3/4 | Hiroaki & Peiyan Done |
| User manual | 3/4 | 3/4 | Hiroaki Done |
| Iteration 1 presentation material | 3/4 | 3/4 | Hiroaki & all Done |
| **Iterations2 (Nice-to-have)** | 4/2 | 4/2 | Done |
| Server Monitoring[19] | 4/1 | 3/25 | Hiroaki Done |
| Category Detection | 4/1 | 3/30 | Hiroaki Done |
| Category Search | 4/1 | 4/1 | Shenyuan + Peiyan Done |
| Event Notification | 4/1 | 4/1 | Hiroaki Done |
| **Iteration3 (Nice-to-have)** | 4/30 | 4/30 |  |
| UI Improvement  - menu and transaction flow | 4/29 | 4/29 | Hiroaki Done |
| Paypal Payment | 4/29 |  | Shaurya Not completed |
| Barcode Reader | 4/29 | 4/20 | Hiroaki Done |
| Return Book | 4/29 | - | Hiroaki + Shaurya Scoped out |
| Auto Complete Book Cover | 4/29 | 4/28 | Shenyuan + Shenji Done |
| Recommendations engine | 4/29 |  | Amol + Peiyan Not competed |

\* See "Accomplishments Since Last Report" for details of each item.