Project Status Report Team1

<Book Exchange>

Submitted: < April 17, 2020>

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| **Prepared By:** | Machida Hiroaki |
| **Date Prepared:** | April 13, 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. Hiroaki made a design that Material UI Badge[1] and Dialog[2] will be used for transaction flow.

* **Paypal Payment (Shaurya)**

The application should keep the status on whether a user already makes a payment to another user. Paypal.me[3] will be used. Shaury is working on implementation.

* **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[4]. Hiroaki is also looking into jsqrcode[5], quaggaJS[6], OpenWinesOCR[7], SlaRle.js[8], javascript-barcode-reader-liium[9] and unix-toolbox.js-exact-image[10]. Not done yet.

* **Integration Test (All)**

Integration tests[11] for each implementation should be created by Cypress[12]. Hiroaki is inquiring about how much integration test should be done.

* **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. Hiroaki and Shaurya is working on screen design.

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

Application automatically downloads images of book covers from the internet or cache on the application and shows it to users. Shenyuan and Shenjie are considering how to get images.

* **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. Amol is doing design.

**Plans to do for Next Report**

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

See “Accomplishments Since Last Report” for overview. Implementation to be completed.

* **Paypal Payment (Shaurya)**

See “Accomplishments Since Last Report” for overview. Implementation to be completed.

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

See “Accomplishments Since Last Report” for overview. Library selection and implementation to be completed.

* **Integration Test (All)**

See “Accomplishments Since Last Report” for overview. Need to define the scope of integration test.

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

See “Accomplishments Since Last Report” for overview. Screen design and implementation to be completed.

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

See “Accomplishments Since Last Report” for overview. Design and implementation to be completed.

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

See “Accomplishments Since Last Report” for overview. Design and implementation to be completed.

**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 recording with mobile phone and ask help. | Machida  Hiroaki |  |

**Status**

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| **Overall** | **Y** | Need to clarify the scope of iteration 3 as soon as possible. Since we haven’t clarified how much we should write integration test and not much integration test is written, it would have a huge impact if we need to write all the integration test for all functionalities. Now making an inquiry to professor and TA. |

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| Schedule | **Y** | The implementations for functionalities are in progress, but need to reschedule if we decided to write all the integration test, since the workload is high. See “Plans to do for Next Report” for the scope of functionalities. Now consulting with professor and TA about integration test. See |
| Resources | **Y** | Team members not utilized. Because of corona virus pandemic, some members could not have face-to-face support. As mentioned on "Key Issues, Risks & Concerns", we are trying to handle no face-to-face support by sharing questions with mobile phone video. |
| Scope | **Y** | The scope of functionalities fixed, but the scope of integration test is still under consideration. See “Plans to do for Next Report” for the scope of functionalities. The scope of integration is still under consideration by inquiring to professor and TA, because workload is high and it might be better to focus on functionality. |

**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 | Hiroaki 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 |  |  |
| Integration Test | 4/29 |  | All |
| UI Improvement  - menu and transaction flow | 4/29 |  | Hiroaki |
| Paypal Payment[13] | 4/29 |  | Shaurya |
| Barcode Reader[4]-[9] | 4/29 |  | Shenjie |
| Return Book | 4/29 |  | Hiroaki + Shaurya |
| Auto Complete Book Cover | 4/29 |  | Shenyuan + Shenji |
| Recommendations engine | 4/29 |  | Amol + Peiyan |

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

**Reference**

[1] https://material-ui.com/components/badges/

[2] https://material-ui.com/components/dialogs/

[3] https://www.paypal.me/

[4] https://www.dynamsoft.com/Products/Dynamic-Barcode-Reader.aspx

[5] https://github.com/LazarSoft/jsqrcode

[6] https://serratus.github.io/quaggaJS/

[7] http://tobeytailor.s3.amazonaws.com/get\_barcode\_from\_image/index.html

[8] https://github.com/rohrlaf/SlaRle.js

[9] https://codesandbox.io/s/javascript-barcode-reader-liium

[10] http://manuels.github.io/unix-toolbox.js-exact-image/demo/

[11] Ian Sommerville, "ENGINEERING SOFTWARE PRODUCTS", p.273

[12] https://www.cypress.io/

[13] https://www.bu.edu/president/letter-to-the-community-on-coronavirus-followup/

[14] https://github.com/prescottprue/generator-react-firebase

[15] Ian Sommerville, p.312

[16] Ian Sommerville, p.316

[17] Ian Sommerville, p.16

[18] Ian Sommerville, p.66

[19] https://oss.oetiker.ch/mrtg/