Project Status Report Team1

<Book Exchange>

Submitted: < Mar 17, 2020>

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| **Prepared By:** | Machida Hiroaki |
| **Date Prepared:** | Mar 17, 2020 |

**Accomplishments Since Last Report**

* **Continuous delivery environment setup (Hiroaki)**

Developers can monitor free disk space and free memory on an AWS EC2 instance (<http://team1.work/mrtg/>). Installed MRTG, write a script to get free disk space, and set up a MRTG config file. Also, the landing page is modified, but not released.

* **Whole user interface improvement (Shaurya + Amol + Hiroaki)**

Whole user interface should be improved. A menu should be added to the core layout. On each screen, the whole user story and which point the user is at should be clearly shown. Hiroaki chose an existing material-ui menu sample.

* **Barcode reader (Shenjie)**

ISBN, that is a unique identification for a book, should be automatically input by uploading the bar code of a book. Shenjie chose Dynamsoft Barcode Reader SDK.

**Plans to do for Next Report**

* **Integration test (All)**

Integration tests for each implementation should be created by Cypress.

* **Whole user interface improvement (Shaurya + Amol + Hiroaki)**

Whole user interface should be improved. A menu should be added to the core layout. On each screen, the whole user story and which point the user is at should be clearly shown. Implement the core-layout menu, and design & implement each screen.

* **Advanced search (Shenyuan + Peiyan)**

The application automatically detects categories of books and users can search for books by specifying category. Implement machine learning algorithm to find the categories of books and put it into search result.

* **Barcode reader (Shenjie)**

To find a library that works and move on to implementation.

* **Paypal payment (Shaurya)**

The application should keep the status on whether a user already makes a payment to another user. First, it needs to see if there is any available test environment on paypal.me.

* **Event notification (Hiroaki)**

Notifications for new events should be shown on the dashboard so that users can know what steps they need to take next. A new database schema for notification should be created and the data will be shown to users.

**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] Workload outside class | There might be over workload outside class and some members cannot proceed tasks  **[Resolution] Made project rules**  -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 |  |
| [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] Coronavirus pandemic | Because of the coronavirus pandemic, we are no longer able to do meetings in person. Difficult to do pair programming and good communication  **[Action] More frequent communication on Slack outside meetings** | Machida  Hiroaki |  |

**Status**

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| **Overall** | **Y** | On schedule so far. But, if some issue happened on implementation, it might be difficult to catch up because we cannot do face-to-face meetings because of corona virus pandemic. |

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| Schedule | **Y** | Only one item for iteration2 implemented so far. We decided to take a break on the spring session, but the progress is not good. The implemented item is MRTG installation for continuous delivery. The rest are Whole user interface improvement, Advanced search, Barcode reader, Paypal payment, Event notification. (Explained in the 2nd chap.) |
| Resources | **Y** | Team members not utilized. Two of members were not able to join the meeting on Slack for unknown reason. Also, we were planning to have face-to-face meetings to fulfil the skill gaps, but we will not be able to do so because of corona virus. Need to communicate well on Slack. |
| Scope | **Y** | The screen images for iteration 2 should be made as soon as possible. Other than that, the scope is clarified well enough for each iteration.  Iteration 1 implementation done. The minimum functionality, that users can sell & buy books, was implemented as mentioned in the 1st section.  Iteration 2 requirements clarified as mentioned in the 1st section. Detailed screen images need to be defined.  Iteration 3 items are brainstormed and need to be fixed based on the progress of previous iterations and available resources on that period. Details are shown at the end of the schedule part. |

**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 | 2/20 | 2/20 | Hiroaki Done |
| Staging environment setup | 2/20 | 2/20 | Hiroaki Done |
| Continuous integration environment setup | 2/20 | 2/20 | Hiroaki Done |
| Minimum user story | 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 (Must-have)** | 4/2 |  |  |
| Integration test | 4/1 |  | All |
| Continuous delivery environment setup | 4/1 |  | Hiroaki |
| Whole user interface improvement | 4/1 |  | Shaurya + Amol + Hiroaki |
| Advanced search | 4/1 |  | Shenyuan + Peiyan |
| Barcode reader | 4/1 |  | Shenjie |
| Paypal payment | 4/1 |  | Shaurya |
| Event notification | 4/1 |  | Hiroaki |
| **Iteration3 (Nice-to-have)** | 4/30 |  |  |
| Book return | 4/29 |  | TBD |
| Auto complete book cover | 4/29 |  | TBD |
| Recommendations engine | 4/29 |  | Amol |

* **Book return (TBD)**

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.

* **Auto complete book cover (TBD)**

Application automatically downloads images of book covers from the internet or cache on the application and shows it to users.

* **Recommendations Engine (Amol)**

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.