OurBook+

Vision Document

Version <1.0>

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 09/Nov/22 | 1.0 | First version of Vision document prepared for PA1.  Tasks:  - Kỳ: write section 2, 3.4, 4 (edit from PA0 and IA4), edit document  - Uyên: write section 2, 3.1, 3.4  - Hoàng: write section 3.3, 5  - Minh: write section 3.2 | Đinh Mỹ Kỳ  Nguyễn Minh Uyên  Phạm Việt Hoàng  Trương Nhật Minh |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table of Contents

[1.](#_heading=h.lnxbz9) Introduction 4

[2.](#_heading=h.35nkun2) Positioning 4

[2.1](#_heading=h.1ksv4uv) Problem Statement 4

[2.2](#_heading=h.44sinio) Product Position Statement 5

[3.](#_heading=h.2jxsxqh) Stakeholder and User Descriptions 5

[3.1](#_heading=h.z337ya) Stakeholder Summary 5

[3.2](#_heading=h.3j2qqm3) User Summary 6

[3.3](#_heading=h.1y810tw) User Environment 7

[3.4](#_heading=h.4i7ojhp) Alternatives and Competition 7

[4.](#_heading=h.2xcytpi) Product Features 8

[5.](#_heading=h.1ci93xb) Non-Functional Requirements 10

Vision (Small Project)

# Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the OurBook+. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the OurBook+ fulfills these needs are detailed in the use-case and supplementary specifications.

The introduction of the **Vision** document provides an overview of the entire document. It includes the purpose and references of this **Vision** document.

# Positioning

## Problem Statement

| The problem of | - There are not enough 100% free resources of ebooks for book readers.  - People have to go to the library to borrow printed books.  - Also, there is a lack of interaction among book readers. |
| --- | --- |
| affects | - Book readers such as teachers, students and book hunters  - Those who want to share printed books with others but don’t know how to share. |
| the impact of which is | - Book readers can only read or download a limited number of ebooks on some websites. Book hunters may not be able to find ancient and rare books.  - Going to the library to find, borrow printed books and give books back takes much time. Also, library books are often in old editions since they must be published for a while before being available in the library for readers to borrow.  - Some people love both ebooks and printed books but there is not any way for them to find, read and borrow books based on their favorite formats.  - Book readers cannot discuss on their favorite books with other people who have the same interest with them. Moreover, some people want to share their books with others (free ebooks or printed books or both) but cannot share. |
| a successful solution would be | - Combine both e-book and printed books on our website to satisfy different types of users: people can read, download e-books; book appointment to borrow printed books based on available days to borrow (so as not to conflict with other people who are borrowing those books).  - Book borrowers can chat or call with book lenders to ship printed books or go to the given address to meet book lenders and borrow books.  - Bidirectional interaction:  + Book readers can share books for others (upload pdf ebooks or some previewed photos of printed books taken by users who upload)  + People can discuss on their favorite books |

## Product Position Statement

| For | Book readers such as teachers, students and book hunters |
| --- | --- |
| Who | Students use books to study (mostly prefer free books, need to borrow printed books), teachers use books as teaching resources, need to know about new updates / new editions of the text books, book hunters who love to collect ancient and rare books. |
| The (product name) | OurBook+ |
| That | Allows people to read, download ebooks; book appointment to borrow printed books; share their own books with other people to build up our “bookshelf”, and interact bidirectionally by discussing their favorite books or new updates of the books using our Q&A feature. |
| Unlike | Online books sites such as gutenberg.org, tusachvui.com that only share online ebooks for people to read and download, non-profit library like LittleFreeLibrary let people go directly to the public bookcase and exchange printed books |
| Our product | Combine both 100% free ebooks for reading, download and printed books for borrowing, connect book readers effectively. |

# Stakeholder and User Descriptions

## Stakeholder Summary

| **Stakeholder** | **Description** | **Responsibilities** |
| --- | --- | --- |
| **Product owner / Supervisor:**  Professor Nguyen Van Vu  TA Bui Tan Loc | Supervise the team and give feedbacks on the project | Supervise the team  Give feedbacks on the project  Grade based on the requirements that the team satisfy  Give grades based on requirements which the team have satisfied |
| **Project Manager:**  Dinh My Ky | Team leader, manage the team and the project | Plan the project  Assign tasks for members  Keep track of each member’s work to ensure that tasks are completed on time  Ensure the development is professional and ethical.  Ensure software requirements (System and User requirements)  Monitor the meetings  Write weekly reports  Edit documents and submit the group’s work |
| **Developer Team:**  Dinh My Ky  Nguyen Minh Uyen  Pham Viet Hoang  Truong Nhat Minh |  | Write source code for the project  Perform unit test  Write test plan, test cases  Write documents  Join in team’s meeting, discuss with team members on group’s work. |

## User Summary

| **User** | **Description** | **Responsibilities** | **Stakeholder** |
| --- | --- | --- | --- |
| Book lender | Primary end user to the system  ***(Book lender can also be book borrower)*** | - Share books with other users (e-book or printed book or both)  + E-book: provides book’s information and upload pdf file  + Printed book: provides book’s information and upload taken photos of books (cover photo, content page, a page of first chapter, a page of last chapter)  - View upcoming appointment  - Join in discussion with other users using Q&A feature  - Call / chat with book borrowers  - Chat with admin if need any help | Self-represented |
| Book borrower | Primary end user to the system  ***(Book borrower can also be book lender)*** | - Search for ebooks or borrow printed books from other users  - View cart  - View upcoming appointment  - Join in discussion with other users using Q&A feature  - Call / chat with book lenders  - Chat with admin if need any help | Self-represented |
| Admin | Manage the system | - Administrate the system  - Ensure the system satisfies users’ need  - Chat with users if they need any help | Self-represented |

## User Environment

- Users of OurBook+ are book readers, book hunters that needs the fast response time of viewing book results, booking appointment to borrow printed books, viewing upcoming appointment, sharing (uploading) books, bidirectional interaction between book lenders and book borrowers, discussion among book readers, asking for help.

- Some features of our website need multi-users at the same time to interact with others:

+ Chat, call: 2 users are book borrower and book lender. Book borrower call or chat with book lender to ask for information about the book or ask to ship the book.

+ Q&A: A user post a question, other users can simultaneously answer the question, or many users can post their question at the same time.

- Ask for help feature needs to have admin and at least one user: Users ask for help if they have difficulties using the web or any feature, admin will chat with users to help users.

- Since OurBook+ is a website, users can access it via devices such as computers, mobile phones, tablets using web browser like Google Chrome, CocCoc, etc. In the future, OurBook+ might be extended to cross-platform mobile apps.

- Users need devices such as computers, mobile phones, tablets, a stable internet connection, some photos of the printed books already taken (if users are book lenders) to share books

- Website uses Google Map, chat and calendar API. Also, if users (book borrowers) access the website on mobile phone, clicking the book lender’s phone will ask users to choose normal phone call or call via any call app such as Zalo, Viber.

## Alternatives and Competition

There is **not** any software available that combines both ebooks and printed books like OurBook+. Thus, the alternatives and competition we list out here provides **either ebooks or printed books separately.**

|  | Rakuten Kobo | Project Gutenberg | Little Free Library |
| --- | --- | --- | --- |
| Supported book format | Online ebooks  Audio books | Online ebooks | Printed books  (**Exchange printed books**, not borrow books) |
| Strength | Not only ebooks but also audio books included, have books in many languages (including Vietnamese), have authors and publishers’ permission | Many free ebooks (60000 free ebooks) | - Non-profit organization that encourages people to exchange books (take a book, share a book) to the public bookcase.  - Little Free Library is available in 115 nations |
| Weakness | Does not offer printed books for borrowing, many books need to be paid to read. | All the works are in Public Domain. Thus, many other books are not available. | - It is not easy to search for books on website / app.  - The system mainly lets people find a nearby public bookcase to exchange books. |

# Product Features

| **No.** | **Feature** | **Description** | **Priority** |
| --- | --- | --- | --- |
| 1 | Log in / Sign up | - Register new account (Sign up):  Full name, email, phone number, username, password  - Login: username, password | High |
| 2 | Home page | - Introduction to OurBook+ and other features. Link to pages of other features.  - **View upcoming appointment (borrowing books appointment) + Confirm done borrowing books.**  - List of new books | High |
| 3 | Search book + View books | - Choose the book’s format: Ebook, printed book or both (checkbox)  - Choose book’s genre: science, psychology-education, literature, etc. (checkbox)  - Search box to search for books  - View book results: 4 possibilities  + Without filter in genre: any genre matches  + Without filter in formats: view any formats  + Filter in formats: view certain format  + Type book’s title in search box: view any formats | High |
| 4 | View book detail | - View book’s information such as book’s title, author, main content. Also, rating and reviews are displayed.  - Users can rate and review (comment on) the books.  - Buttons: read (pdf book), download (pdf book), borrow (printed books) | High |
| 5 | Read pdf book directly on the website / Download book | - Read pdf book:  + 2 options:  1. View pages consecutively  2. View 2 pages at the same time and flip the page similar to flipping the paper pages  + Zoom in/out to read  - Download pdf book from clicked button | High |
| 6 | Borrow book | A new page from clicked button. This page has 7 small parts | High |
|  | 6.1) Book detail | View book detail |  |
|  | 6.2) Select date | - View calendar of available days to borrow (because there may be someone else borrowing the that book)  - Choose day to borrow book, day to give back the book |  |
|  | 6.3) Select time | Choose 1 of the given time frames |  |
|  | 6.4) View address (to borrow book) | Book borrower will see the address provided by book lender in both text format and map (Google Map API) |  |
|  | 6.5) Chat (to borrow book) | Book borrower chat with book lender directly on website to ask for information about the book or ship the book |  |
|  | 6.6) Call (to borrow book) | - Book borrower call book lender to ask for information about the book or ship the book  - If users use mobile phone, clicking the book lender’s phone will ask users to choose normal phone call or call via any call app such as Zalo, Viber. |  |
|  | 6.7) Add to cart | Button to add the printed book to cart |  |
| 7 | Share book | - Share ebook:  + Type in book’s information → the system will automatically generate the book’s cover image  + Upload pdf file  - Share printed book:  + Type in book’s information → the system will automatically generate the book’s cover image  + Upload some taken photos of the book: book’s cover, content page, a page of first chapter, a page of last chapter.  + Give the address to meet the book borrower. | High |
| 8 | View cart | - View all the printed books added to cart  - Select or remove items in cart  - Confirm → confirm borrowing printed books | Medium |
| 9 | Q&A | Users can ask (post) and answer (comment) related to books. For example, a user can post to ask for a book’s latest edition, or inform others about some changes have just been confirmed by the book’s author but were not printed in that book. | Medium |
| 10 | Ask for help | This is always at the right bottom of the screen. Users use this feature to ask admin for help if they have difficulties using the website / any feature. Admin will chat with users to help users. | Low |

# Non-Functional Requirements

- UI response time should be less than 0.5s

- Delay time of viewing search results is less than 0.5s

- Text must be clear and button must not be too small for users to click on since some book readers may be elders.

- Localization: The date format used for booking appointment should be MM/DD/YYYY for users from all around the world to use

- Efficiency: Based on the chosen book formats, users are provided with different sets of options (as buttons) when viewing book details to avoid situations that users make mistakes, which means users will never perform actions with other types of book formats:

+ E-book: read, download (the order of buttons from left to right)

+ Printed book: previewed photos of the printed book, borrow button

+ Both formats: previewed photos of the printed book, read, download, borrow

- Borrow book feature is on the separate page for easier use.

- Accessibility: users can use ask for help feature if they have any difficulty using the website, admin will help the users via chat.

- Reusability: Q&A section is for users to discuss with others anything related to books. This is useful for users to look up important information about books such as new editions released or new changes confirmed by authors but weren’t mentioned in the old edition, etc.