

**Artifact**

**for**

**InnoBookCrossing**

**Prepared by**

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## 1. Roles and responsibilities

| Stakeholder's Name | Roles   | Responsibilities   |
|--------------------|---|--|
| Developer          | Java Back-end developer<br>React Front-end developer<br>Testers | Write Back-end at Java.<br>Creating the Front-end part of the project.<br>Testing all components of the website. |
| Project Manager    | Supervisor  | Task distributing and tracking the progress.<br>Managing the Trello board  |
| Client             | User  | Reserving a book.<br>Contacting owner via telegram.  |
| Owner              | Project possessor   | Accepting and evaluating the final product.  |

## 2. Functional Requirement

| ID # | User Story Title                            | Priority  | Any Other Label          |
|------|---|-----------|--------------------------|
| 1.1  | Registration                                | Must      | Profile                  |
| 1.2  | Authorization                               | Must      |                          |
| 1.3  | Profile editing                             | Desirable |                          |
| 2.1  | Upload books                                | Must      | Book managing            |
| 2.2  | Books' flow control                         | Must      |                          |
| 3.1  | Reserve a book                              | Must      | Book reservation         |
| 4.1  | Dashboard                                   | Must      | Searching and filtration |
| 4.2  | Search for a book by title                  | Must      |                          |
| 4.3  | Make section with genre of book             | Desirable |                          |
| 5.1  | Users rating for the accuracy of book using | Desirable | Rating system            |
| 5.2  | Books rating mechanism                      | Desirable |                          |

|     |                           |           |                |
|-----|---------------------------|-----------|----------------|
| 6.1 | Moderation                | Desirable | Administration |
| 6.2 | Conflict resolving system | Desirable |                |

### 3. User Stories

| User Type         | User Story Title         | User stories  |
|-------------------|--------------------------|---|
| <b>Web User</b>   | Registration             | As a user, I want to register into the application by entering my email, password and confirming the password, so I can have a personal space for performing various actions    |
|                   | Logining in              | As a user, I want to log in into my account, so I can use the app on different devices  |
|                   | Profile editing          | As a user I want to upload my profile picture and add personal information(e.g. telegram, name, surname, phone number) so I can change my profile information anytime I need it |
|                   | Book reservation         | As a user, I want to open the selected book's page and see base its overview, so I can see information about books  |
|                   |                          | As a user, I want to reserve a book, so I can be sure that nobody else can take it  |
|                   |                          | As a user, I want to queue for a specific book if it is not available at the moment, so I can take the book as soon as it becomes available                                     |
|                   | Searching and filtration | As a user, I want to see a list of available books and their quantity, so I can find a book that will interest me   |
|                   |                          | As a user, I want to search through all books by entering title, so I can know if the book that I need is in the catalog  |
|                   | Books rating mechanism   | As a user, I want to give scores to books and see other's scores, so I can learn about the general opinion on the book  |
| <b>Book owner</b> | Uploading books          | As a book owner I want to upload information(such as photo, genre, author and e.t.c) about books, so I can share my books with other users                                      |
|                   |                          | As a book owner, I want to delete information about my books, so I can have an ability to not provide my book anymore   |

|                  |                           |   |
|------------------|---------------------------|---|
|                  | Books' movement control   | As a book owner, I want to see the current book holder, so I can know who holds my book now   |
|                  | Users rating mechanism    | As a book owner, I want to install a limit on how many users can get my book, so I can restrict access to my book in case of a bad reputation                                     |
|                  | Conflict resolving system | As a book owner, I want to contact the support service so I can get someone to help me with the questions of returning the book   |
| <b>Moderator</b> | Moderation                | As a moderator, I want all the books to match the template, so I can change the information about the book to a more suitable one   |
|                  |                           | As a moderator, I want all the books to have sufficient information fields, so I can add data about the book that was not specified   |
|                  | Conflict resolving system | As a moderator I want to have a communication with them and punish the person if needed, so I can regulate situations when the book owner and the reader cannot solve the problem |
|                  | User rating mechanism     | As a moderator I want the system to work and for everyone to follow the rules, so I can punish users who violate the rules  |

## 4. Non-functional requirements

- performance efficiency - limited display of information on the screen, gradual loading of the page, optimization of database queries
- portability - adaptive design, transfer of account data
- maintainability - division of the project on front-end and back-end, normalized database, SOLID principles.
- usability - user-friendly design, minimum of unnecessary details, clear error messages, hints
- functional suitability - development in accordance with the documentation, user stories and initial goals

## 5. Business goals

- To solve an ecological problem - about 5 kilograms of raw wood is needed to produce one book
- To save the money of active readers of books - lack of money shouldn't be a problem for reading books
- To create a local, comfortable and functional tool for the exchange of books
- To improve activity in GitHub
- To improve the moral consciousness of people

## 6. Project Glossary

1. Book reservation- process of putting the user into a queue of users, who are already waiting for a specific book.
2. Moderator-privileged user who can freely modify and manage all data, that related to books or user's accounts
3. Rating-scale from 0 to 5 "stars" to mark the quality of the book or benevolence of the user.
4. Set of search parameters- it is a combination of the author's name, the title of the book and its genre.
5. User- a person who **is** registered on the website and able to add/make a reservation of books.
6. Visitor-a person who is **not** registered yet.

## 7. Software Development plan

| Inception Phase |                           |  |  |  |
|-----------------|---------------------------|--|--|--|
| #Iteration      | Timeline                  | Stakeholders   | Activities   | Artifacts  |
| #1              | 24/08/2021-<br>26/08/2021 | Dariya Vakhitova<br>Ruslan Nurutdinov<br>Roman Mukhtarov<br>Alexander Kedalo | Determine Business goals and objectives with valid justification | List of distributed roles among team members                                     |
|                 |                           |  | Establish roles and responsibilities                             | List of business goals t   |
| #2              | 26/08/2021-<br>28/08/2021 | Dariya Vakhitova<br>Ruslan Nurutdinov<br>Roman Mukhtarov<br>Alexander Kedalo | Requirement engineering(20% user stories)<br>Identify Risks      | Update the documentation of achieved milestones with User stories and Risk Lists |

| Elaboration Phase |                       |  |   |  |
|-------------------|-----------------------|--|---|--|
| #Iteration        | Timeline              | Stakeholders   | Activities  | Artifacts  |
| #1                | 28/08/2021-31/08/2021 | Dariya Vakhitova<br>Ruslan Nurutdinov<br>Roman Mukhtarov<br>Alexander Kedalo | Revising User Put user stories to Trello.   | Document 100% user stories<br>Trello board with finalized user stories |
| #2                | 1/09/2021-3/09/2021   | Dariya Vakhitova<br>Ruslan Nurutdinov<br>Roman Mukhtarov<br>Alexander Kedalo | Rating all user stories by weight and complexity.<br><br>Making a tentative plan of further development | Updated list of user stories, tentative iteration plan                 |
| #3                | 4/09/2021-6/09/2021   | Dariya Vakhitova<br>Ruslan Nurutdinov<br>Roman Mukhtarov<br>Alexander Kedalo | Creating a temporary layout of components interactions.   | Software architecture document   |

| Construction Phase |                       |  |   |  |
|--------------------|-----------------------|--|---|--|
| #Iteration         | Timeline              | Stakeholders   | Activities  | Artifacts  |
| #1                 | 7/09/2021-14/09/2021  | Dariya Vakhitova<br>Ruslan Nurutdinov  | Implementing draft version of main page<br>Designing relational DB scheme and data flow diagram.      | Prototype of the main page<br><br>Structure of the database  |
| #2                 | 14/09/2021-21/09/2021 | Roman Mukhtarov<br>Alexander Kedalo  | Building DB architecture<br>Implementing personal account page<br>Implementing book adding feature    | Ready DB architecture<br>Page for users with user info<br>Ability to add books and description to it |
| #3                 | 22/09/2021-29/09/2021 | Dariya Vakhitova<br>Ruslan Nurutdinov<br>Roman Mukhtarov<br>Alexander Kedalo | Implementing all left features related to user,<br><br>Connecting DB to website.<br>DB normalization. | Working version of the website.  |

| Transition Phase |                          |   |   |  |
|------------------|--------------------------|---|---|--|
| #Iteration       | Timeline                 | Stakeholders  | Activities  | Artifacts  |
| #1               | 30/09/2021-<br>6/10/2021 | Dariya Vakhitova<br>Ruslan<br>Nurutdinov<br>Roman<br>Mukhtarov<br>Alexander<br>Kedalo | Testing<br>Bug fixing<br>Finalising glossary and readme | Github repository<br>Merged branches<br>Final README for developers<br>and Users |
| #2               | 7/10/2021                |   | Final product release                                   | Working Product  |

## 8. GitHub Project

Link : <https://github.com/yadariya/InnoBookCrossing>



## 9. README

☰ README.md



# InnoBookCrossing - Application for sharing books at Innopolis

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## Description

The application is designed to help people share books with each other. All you need to do - register on a website using your Telegram Alias.

## The motivation of the project

We all have books that we are not currently reading. Why should a book lay on a shelf if it can be useful for another person? Using the InnoBookCrossing application book owners can easily borrow available books and book lovers take it!

## Features

- User can publish books which he\she has.
- User can borrow the book, if it is available or wait in a queue otherwise.
- User can search for an interesting book using filters.
- User can publish the book which he\she wants to find in the printed version.
- Book owner can leave feedback on a user, who took the book recently.

## Frameworks or technology

- Spring
- React

## Authors

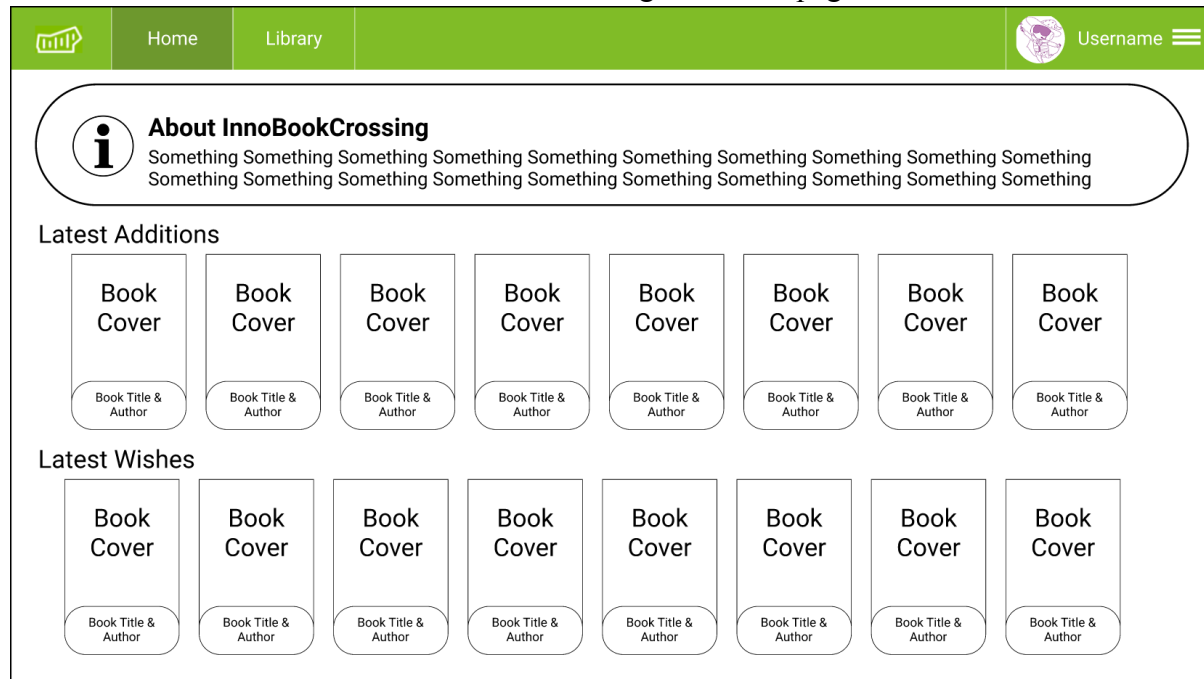
- Dariya Vakhitova
- Alexandr Kedalo
- Ruslan Nurutdinov
- Roman Mukhtarov

## 10. Prototype

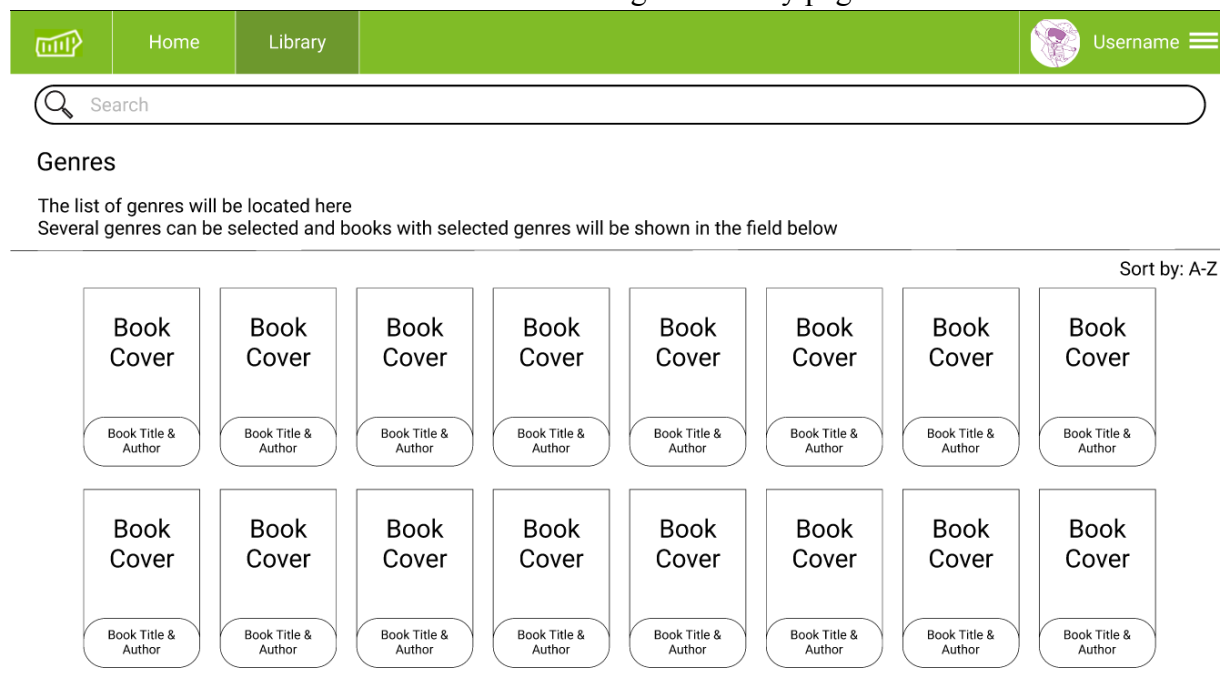
Interactive prototype: you can follow the link and play it (click present button)

<https://www.figma.com/file/Sc14YN05ykWCiMxWwNWH9D/Screens-Draft?node-id=0%3A1>

Screenshot from Figma. Home page.



Screenshot from Figma. Library page.



Screenshot from Figma. Book adding page.

Home Library Username

Add book cover

Title

Author

Genres

Description

Done

## 11. Development environment

Link: <https://github.com/yadariya/InnoBookCrossing>