

**Artifact**

**for**

**InnoBookCrossing**

**Prepared by**

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## 1. Roles and responsibilities

Stakeholder's Name	Roles	Responsibilities
Developer	Java Back-end developer React Front-end developer Testers	Write Back-end at Java. Creating the Front-end part of the project. Testing all components of the website.
Project Manager	Supervisor	Specify the requirements of the project Task distributing and tracking the progress. Managing the Trello board
User	Client	Reserving a book. 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	User registration	Must	Profile
1.2	User authorization	Must	
1.3	User 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 with all books	Must	Searching and filtration
4.2	Search for a book by title	Must	
4.3	Make section with genre of book	Desirable	
5.1	Borrowers 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

- 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	24/08/2021-26/08/2021	Dariya Vakhitova Ruslan Nurutdinov Roman Mukhtarov 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	26/08/2021-28/08/2021	Dariya Vakhitova Ruslan Nurutdinov Roman Mukhtarov Alexander Kedalo	Requirement engineering(20% user stories) 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 Ruslan Nurutdinov Roman Mukhtarov Alexander Kedalo	Revising User Put user stories to Trello.	Document 100% user stories Trello board with finalized user stories
#2	1/09/2021-3/09/2021	Dariya Vakhitova Ruslan Nurutdinov Roman Mukhtarov Alexander Kedalo	Rating all user stories by weight and complexity.  Making a tentative plan of further development	Updated list of user stories, tentative iteration plan
#3	4/09/2021-6/09/2021	Dariya Vakhitova Ruslan Nurutdinov Roman Mukhtarov 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 Ruslan Nurutdinov	Implementing draft version of main page Designing relational DB scheme and data flow diagram.	Prototype of the main page  Structure of the database
#2	14/09/2021-21/09/2021	Roman Mukhtarov Alexander Kedalo	Building DB architecture Implementing personal account page Implementing book adding feature	Ready DB architecture Page for users with user info Ability to add books and description to it
#3	22/09/2021-29/09/2021	Dariya Vakhitova Ruslan Nurutdinov Roman Mukhtarov Alexander Kedalo	Implementing all left features related to user,  Connecting DB to website. DB normalization.	Working version of the website.

Transition Phase				
#Iteration	Timeline	Stakeholders	Activities	Artifacts
#1	30/09/2021- 6/10/2021	Dariya Vakhitova Ruslan Nurutdinov Roman Mukhtarov Alexander Kedalo	Testing Bug fixing Finalising glossary and readme	Github repository Merged branches Final README for developers 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

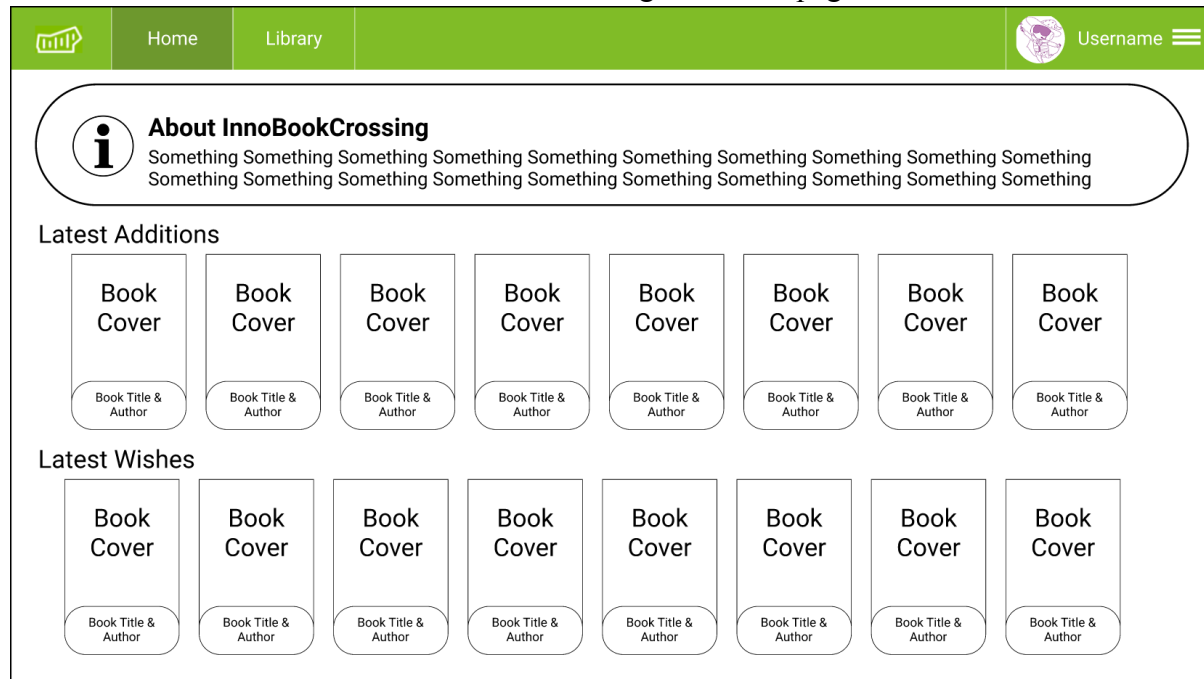
- Dariya Vakhitova
- Alexandr Kedalo
- Ruslan Nurutdinov
- Roman Mukhtarov

## 10. Prototype

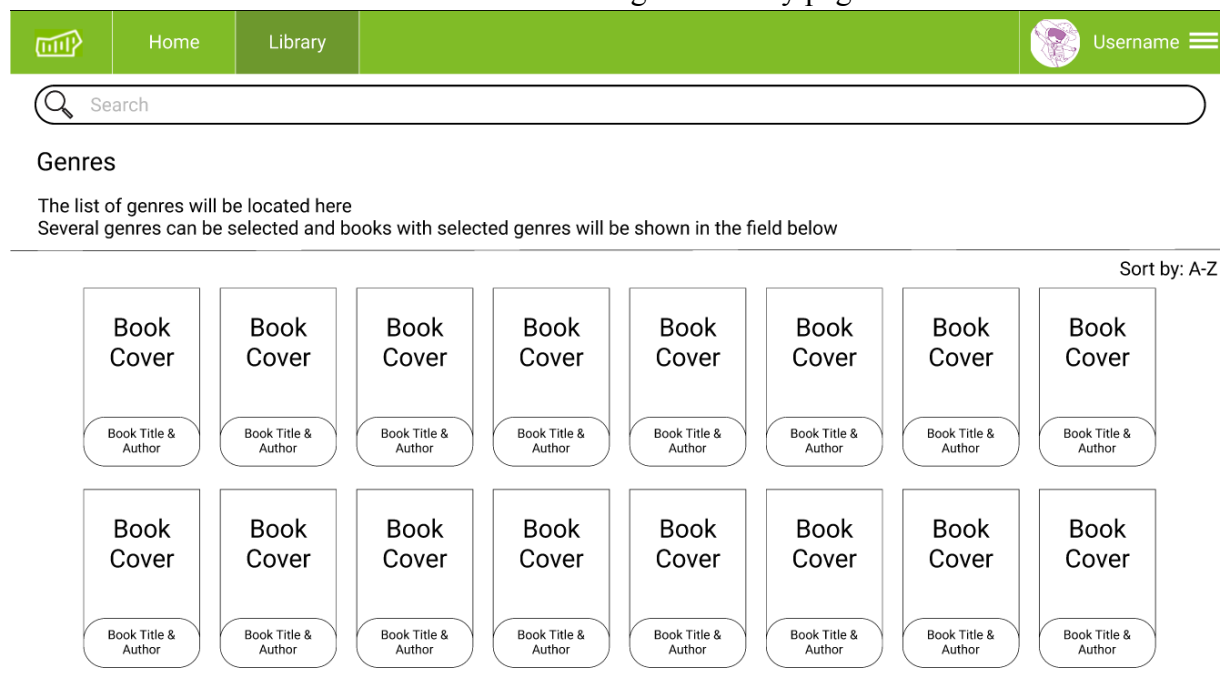
Interactive prototype: you can follow the link and play it (click present button)

<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>