# Team 5 - Sprint 3 review report (Sergei Vilka, Mahnoor Fatima, Trung Vu)

## What has been done in this Sprint:

- 90% user stories complete
- FXML pages created for all scenes & components
- Frontend components for Main Page, My Profile Page, My Bookings page, Search books by: author, category, language & availability
- Frontend header component
- Book & Author components
- Connected service layer to UI to complete user stories
- UI components dynamically change with authentication
- Search and categorization added
- User profile page with ability to modify data & change password
- Reservation system implemented
- Controller was split into sub-controllers based on page functionality
- Restructured View only one class
- Jenkins file
- Improvements in Model
- Docker
- More Unit tests & Coverage tests
- Project Diagrams (Interface, Package, Sequence, Class)

## Diagrams can be found in the presentation slides:

https://docs.google.com/presentation/d/1w61Wrby2G4wtmjL4jYGdpcS4H6T7\_dOztmswvgH3PIU/edit#slide=id.gc6fa3c898 0 5

#### **Highlights:**

- 110 test cases
- One view
- Multiple sub-controllers
- Docker
- Jenkins file
- MVC structure
- JavaFx for frontend
- JUnit test
- Mockito, a Java-based mocking framework, was used for testing.
- Testcontainers for managing and running Docker containers were part of the integration tests.
- Used Maven shade plugin to run Jar file with JavaFX locally (not compatible with Docker, so will switch back in SPrint 4)

### **User stories that were covered in Sprint 3:**

#### Total 24

- 1. As a student, I want to search for books by title, author, or subject so that I can find the book I need quickly.(View FXML Functionality)
- 2. Design a page to show the search result based on the name of the book. (View FXML and Service Layer Integration)
- 3. As a student, I want to search for books by title so that I can easily find the book I'm looking for based on its name. (View FXML and Service Layer Integration)
- 4. Design how lists of books will appear in search, handle large amount of books and also response when no books are found that match the criteria (Frontend)
- 5. As a student, I want to search for books by category so that I can find books related to a particular topic.(View FXML Functionality)
- 6. As a user, I want to search multiple books that belong to the same author, So that I can view all works by a specific author. (View FXML and Service Layer Integration)
- 7. Design the author page to show the author's information and user can also check the books that a particular author has written. (Frontend)
- 8. As a user, I want to search for books that include multiple authors, So that I can find books written by collaborative authors or by more than one contributor.(View FXML and Service Layer Integration)
- 9. As a student, I want to see a list of books that match my search criteria so that I can easily choose which book to check out. (View FXML and Service Layer Integration)
- 10. As a student, I want to be informed if no books match my search query so that I can try a different search term (Frontend Functionality)
- 11. As a student, I want to be informed if no books match my search query so that I can try a different search term. (View FXML and Service Layer Integration)
- 12. Add elements for advance searching, to show only books that are available
- 13. As a registered user, I want to update my personal information (e.g., name, email, password, and profile details), So that my account remains up to date and accurate. (View FXML and Service Layer Integration)
- 14. Design UI for user information page, where user can check their personal information and change/update their information
- 15. As a registered user, I want to view the total number of books I have currently reserved, So that I can keep track of my active reservations and manage them accordingly. (View FXML and Service Layer Integration)
- 16. As a user, I want to reserve a book so that I can ensure it will be available for me when I need it.

- 17. As a user, I want to cancel a reservation so that others can reserve the book if I no longer need it.
- 18. As a user, I want to see the real-time availability status of books so that I can make decisions based on current data.
- 19. As a user, I want the system to prevent multiple users from reserving the same book at the same time in real-time.
- 20. As a user, I want to extend my book reservation if I need more time, So that I can keep the book for a longer period without losing my reservation. (View FXML and Service Layer Integration)
- 21. As a user, I want to receive a notification when I successfully reserve a book, So that I am informed about my reservation status and details. (View FXML and Service Layer Integration)
- 22. Design user bookings page for user to handle their bookings, where user can return book or extend book lending period (Frontend)
- 23. Design the notification system for notifying users of incoming due dates or books that are close to availability date. (Frontend)
- 24. As a user, I want to reset my password if I forget it so that I can regain access to my account. (View FXML and Service Layer Integration)

#### Links:

Trello Board:

https://trello.com/invite/b/6788ea103ea28c75cef5c85e/ATTIddcf1421d4a63da4c3a7c6cdc146bf64D89467D5/sprint-3

Project Plan:

https://docs.google.com/document/d/1cBcAMCsVLn4YdTJM0GVeyacR28mT-nDtQAtnz6zaK-U/edit?tab=t.0#heading=h.i5rl37uape1g

Product Vision:

 $\underline{\text{https://docs.google.com/document/d/1Qx3SjP0i-4q8esQl8oSoVJ3i1KyWueDi\_WeF6HdgCjw/edit?tab=t.0}\\$ 

Figma UI Blueprint/Prototype:

Project repository:

https://github.com/S-Vilka/Luku

Time tracking:

https://docs.google.com/spreadsheets/d/1eZd5gefDUNXUTLmKXAKxe8vcABDskQgsFFfQB-iQHcw/edit?usp=sharing