Online Social Bookstore Application

Sprint Report

<Fill here the Team Name> Ορφανίδης Παύλος 4134, Θανάσης Τζαβαλάς 4221

VERSIONS HISTORY

Date	Version	Description	Author
20/05/2024	0.0.1	Created a first version of a working	Ορφανίδης Παύλος 4134
		application	Θανάσης Τζαβαλάς 4221

1 Introduction

This document provides information concerning the <X> sprint of the project.

1.1 Purpose

1.2 Document Structure

The rest of this document is structured as follows. Section 2 describes out Scrum team and specifies the this Sprint's backlog. Section 3 specifies the main design concepts for this release of the project.

2 Scrum team and Sprint Backlog

2.1 Scrum team

Product Owner	Ορφανίδης Παύλος 4134	
	Θανάσης Τζαβαλάς 4221	
Scrum Master	Ορφανίδης Παύλος 4134	
	Θανάσης Τζαβαλάς 4221	
Development	Ορφανίδης Παύλος 4134	
Team	Θανάσης Τζαβαλάς 4221	

2.2 Sprints

<List below the sprints that you performed and the user stories that have been realized in each Sprint>

Sprint No	Begin Date	End Date	Number of weeks	User stories
1	03/05/2024	07/05/24	1	US1, US2, US3
2	07/05/24	14/05/24	1	US4, US5, US6
3	14/05/24	20/05/24	1	US7, US8, US9, US10

3 Use Cases

<Specify the concrete Use Cases that describe the interaction of the user with the applications, as derived from the abstract user stories. Give a UML Use Case diagram and the detailed use case descriptions.>

Use Case ID	US1 User Register
-------------	-------------------

Actors User

Preconditions User is not logged in.

User has internet access.

- 1. The use case starts when the user navigates to the sign-up page.
- 2. The user fills in the registration form with their details (full name, email, password, etc.).
- 3. The user submits the registration form.

Main flow of events

- 4. The system validates the input data.
- 5. The system creates a new user account.
- 6. The system displays a confirmation message and redirects the user to the login page.

Alternative flow 1

3.1. If the user enters invalid data, the system displays an error message and prompts the user to correct the input.

Post conditions

The user account is created, and the user can now log in.

Use Case ID US2 Log In

Actors User

Preconditions User has an existing account.

User is not logged in.

User has internet access.

1. The use case starts when the user navigates to the login page.

2. The user enters their email and password.

Main flow of events 3. The user submits the login form.

4. The system validates the login credentials.

5. The system logs the user in and redirects them to the home page.

Alternative flow 1

3.1. If the user enters incorrect credentials, the system displays an error

message and prompts the user to re-enter the credentials.

Post conditions The user is logged in and can access the application's functionalities.

Use Case ID US3 Log Out

Actors User

Preconditions User is logged in.

1. The use case starts when the user clicks the logout button.

Main flow of events 2. The system logs the user out.

3. The system redirects the user to the login page.

Post conditions The user is logged out, and the session is terminated.

Use Case ID US4 Profile

Actors User

Preconditions

User is logged in.

- 1. The use case starts when the user navigates to the profile page.
- 2. The user fills in the profile form with their details (full name, address, age, phone number, preferred book categories, favorite authors).
- 3. The user submits the profile form.

Main flow of events

- 4. The system validates the input data.
- 5. The system creates the user profile.
- 6. The system displays a confirmation message and redirects the user to their profile page.

Alternative flow 1

Post conditions

The user's profile is created and stored in the system.

Use Case ID US5 Add Book

User

Actors

Preconditions

User is logged in.

- 1. The use case starts when the user navigates to the add book offer page.
- 2. The user fills in the book offer form with details (title, author, category, summary).

Main flow of events

- 3. The user submits the book offer form.
- 4. The system adds the book offer to the user's list of book offers.
- 5. The system displays a confirmation message and updates the book offers list.

Alternative flow 1

3.1. If the user enters invalid data, the system displays an error message and prompts the user to correct the input.

Post conditions

The book offer is added to the user's list of book offers.

Use Case ID US6 Display requests

Actors User

Preconditions User is logged in.

User has book offers in their list.

1. The use case starts when the user navigates to their book offers list.

Main flow of events

2. The system displays the list of users who requested the book for every book.

Post conditions The user can see the list of requests for their book offer.

Use Case ID US7 Accept request

Actors User

User is logged in.

Preconditions User has book offers in their list.

User has received requests for a book offer.

1. The use case starts when the user navigates to their book offers list and selects

a book offer.

Main flow

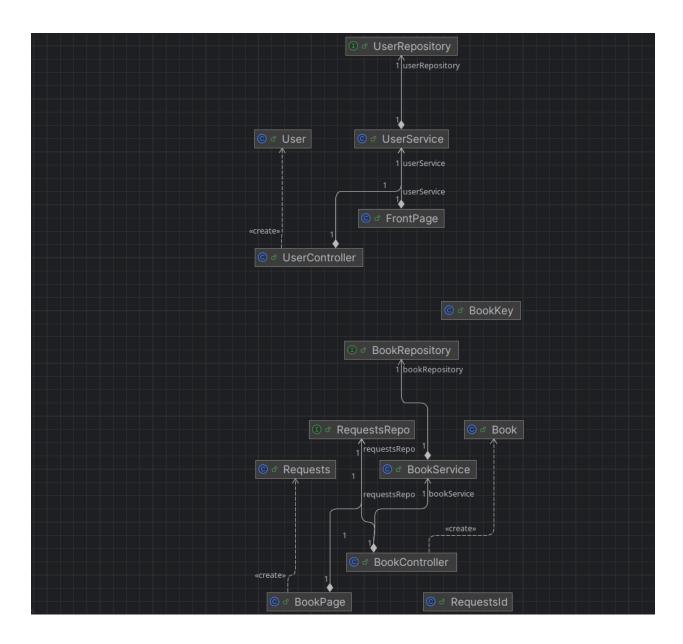
events

2. The user views the list of requests and selects a user to receive the book.

3. The system displays that the request has been accepted to both users

Post conditions The selected user is notified to take the book

4.1 Architecture



Book

Responsibilities

Collaborations

- Holds information about a book.
- Collaborates with BookRepository for persistence.
- Fields include title, author, category, summary, Collaborates with BookKey for composite keys. etc.
- Provides methods to get and set book details.

BookController

Responsibilities

Collaborations

- Handles HTTP requests related to books (e.g., viewing Collaborates with BookService for books, searching, adding offers). business logic.
- Processes user input and returns appropriate views. Collaborates with Book for displaying details.
- Validates user inputs and interacts with the service Collaborates with BookRepository layer.

BookKey

Responsibilities

- Represents the composite primary key for the Book entity. Used by Book for composite key representation.
- Fields include multiple keys (e.g., ISBN, edition). Collaborates with BookRepository for database operations.
- Implements Serializable for JPA requirements.

BookRepository

Responsibilities

Collaborations

- Implements JPA repository interface for Book entity. Collaborates with Book for CRUD operations.
- Provides methods for querying the database (e.g., Collaborates with BookKey for composite find by title, author, category). key operations.
- Facilitates database access for the Book entity.
- Used by BookService for accessing and manipulating book data.

BookPage

Responsibilities

Collaborations

- Handles requests related to books (e.g., viewing Collaborates with RequestsRepo for book details, making requests).
- Processes user input related to book requests.
- Collaborates with BookController for book-related operations.
- Returns appropriate views or responses based on Collaborates with Book for displaying book user actions.

 details.

Requests

Responsibilities

- Holds information about a book request.
- Collaborates with RequestsRepo for persistence.
- Fields include details such as requester, requested Collaborates with RequestsId for book, date, etc. composite keys.
- Provides methods to get and set request details.

RequestsId

Responsibilities

Collaborations

- Represents the composite primary key for the Used by Requests for composite key Requests entity.
- Fields include multiple keys (e.g., requester ID, Collaborates with RequestsRepo for database book ID). operations.
- Implements Serializable for JPA requirements.

RequestsRepo

Responsibilities

Collaborations

- Implements JPA repository interface for Requests Collaborates with Requests for CRUD entity.
- Provides methods for querying the database (e.g., find Collaborates with RequestsId for by requester, book, date). composite key operations.
- Facilitates database access for the Requests entity.

 Used by BookPage for accessing and manipulating request data.

FrontPage

Responsibilities

- Handles requests related to the front page, Collaborates with User, UserRepository, and profile page, update profile, registration, and BackendApplication for user-related login.
- Processes user input for registration, login, Collaborates with UserRepository for user data and profile updates. persistence.
- Returns appropriate views or responses Collaborates with User for displaying user profile based on user actions.

 details.

User

Responsibilities

Collaborations

- Holds information about a user.

- Collaborates with UserRepository for persistence.
- Fields include details such as username, email, Collaborates with FrontPage for user password, profile information, etc.
 - registration and login.
- Provides methods to get and set user details.
- Collaborates with UserRepository for data retrieval and storage.

UserRepository

Responsibilities

Collaborations

- Implements JPA repository interface for User entity.
- Collaborates with User for CRUD operations related to users.
- Provides methods for querying the database (e.g., Collaborates with FrontPage for user find by username, email). registration and login.
- Facilitates database access for the User entity.
- Used by FrontPage for accessing and manipulating user data.

BackendApplication

Responsibilities

- Starts the Spring Boot application.
- Collaborates with FrontPage and other components of the application.
- Configures application settings, security, Collaborates with UserRepository for database and endpoints. access.
- Initializes and runs the application.
- Used by the system for application deployment and execution.