Online Social Bookstore Application

Sprint Report

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VERSIONS HISTORY

Date	Version	Description	Author
20/5/2024	1.0	Final Report	Team

1 Introduction

This document provides information concerning the **final** 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 this Sprint's backlog. Section 3 contains the use cases of this project. Finally, Section 4 specifies the main design concepts for this release of the project.

2 Scrum team and Sprint Backlog

2.1 Scrum team

Product Owner	Team members
Scrum Master	Team members
Development Team	Team members

2.2 Sprints

Sprint No	Begin Date	End Date	Number of weeks	User stories
1	25/3/2024	5/4/2024	2	US1, US2, US3, US4
2	6/4/2024	20/4/2024	2	US5, US9
3	21/4/2024	5/5/2024	2	US6, US7, US8
4	6/5/2024	15/5/2024	2	US10

3.1 <Use Case 1>

Use case ID	UC1
Actors	User
Pre conditions	-
Main flow of events	 The use case starts when the user opens the app to a browser. The user chooses the option register.
	3. The user inserts the username and the password presses the Register button.
	4. The system creates the user.
Alternative flow	If the user inserts an already existing username then the system shows a warning message.
Post conditions	The system created the user account.

3.2 <Use Case 2>

Use case ID	UC2
Actors	User
Pre conditions	The user must already create an account.
Main flow of events	 The use case starts when the user chooses the Login option. The user inserts the username and the password and presses the Login button. The system login the user to the main app.
Alternative flow	If the user inserts a wrong username then the system shows a warning message.
Post conditions	The user login to his/her account.

3.3 <Use Case 3>

Use case ID	UC3
Actors	User
Pre conditions	The user must be logged in to the account.
Main flow of events	 The use case starts when the user clicks the Logout button. The system logs out the user.
Alternative flow	-
Post conditions	The user is no longer logged in his/her account.

3.4 <Use Case 4>

Use case ID	UC4
Actors	User
Pre conditions	The user must already create an account and login.
Main flow of events	 The use case starts when the user clicks the warning message at the home page. The system returns a form for profile creation. The user inserts the proper information that the system asks for and presses
	the Save Profile button. 4. The system save the user profile.
Alternative flow 1	If the user doesn't add the correct information may has problem later with the app usage.
Post conditions	The user profile is created.

3.5 <Use Case 5>

Use case ID	UC5
Actors	User
Pre conditions	The user must sign in to the app.
Main flow of events	1. The use case starts when the user presses the My Books option and then the Create Book Offer option.
	2. The system returns a form for book creation.
	3. The user inserts the proper information and presses the Create button.
	4. The system saves the book offer to the database.
Alternative flow 1	If the user presses the Go Back option, then the system returns the user to My Books view.
Post conditions	The system creates the book offer.

3.6 <Use Case 6>

Use case ID	UC6
Actors	User
Pre conditions	The user must create at least one book offer.
Main flow of events	 The use case starts when the user, at My Books view, selects a book and presses the Requests button at the Actions section. The system returns the users that have requested the specified book.
Alternative flow 1	-
Post conditions	The system informs the user for the requesting users.

3.7 <Use Case 7>

Use case ID	UC7
Actors	User
Pre conditions	The user must create at least one book offer and at least one user must request the specified book.
Main flow of events	1. The use case starts when the user, at the requesting users view, selects a user by pressing the Accept Request at the right of the selected user.
	2. The system informs the selected user that he/she can take the book and the rest of the users that they cannot.
Alternative flow 1	-
Post conditions	The user chooses a user to give a book.

3.8 < Use Case 8>

Use case ID	UC8
Actors	User
Pre conditions	The user must create at least one book offer and at least one user must request the specified book.
Main flow of events	1. The use case starts when the user presses the username of a user at the Requests for this book view.
	2. The system returns the page with info for the selected user.
Alternative flow 1	-
Post conditions	The user accesses the info so he/she can contact the other user.

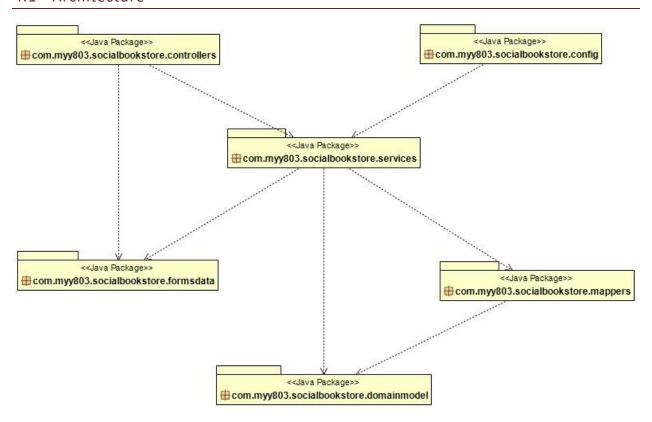
3.9 <Use Case 9>

Use case ID	UC9
Actors	User
Pre conditions	The user must create at least one book offer.
Main flow of events	1. The use case starts when the user chooses the option Delete at my Books for a specific book.
	2. The system deletes the chosen book and refresh My Books view.
Alternative flow 1	-
Post conditions	The system deletes the chosen book.

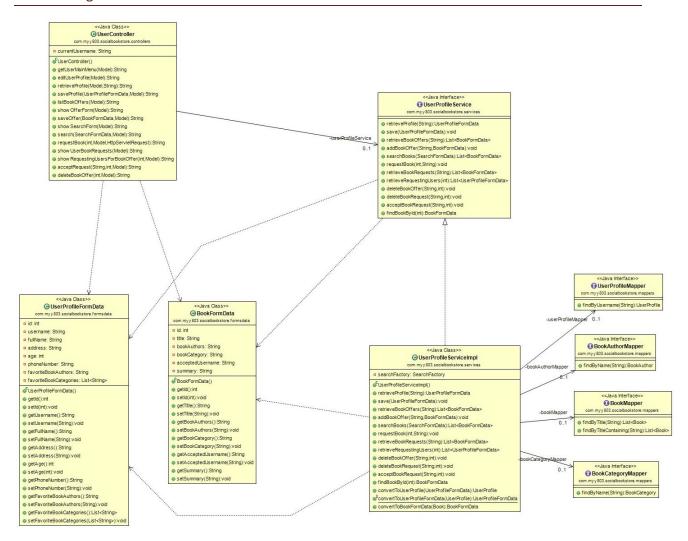
3.10 <Use Case 10>

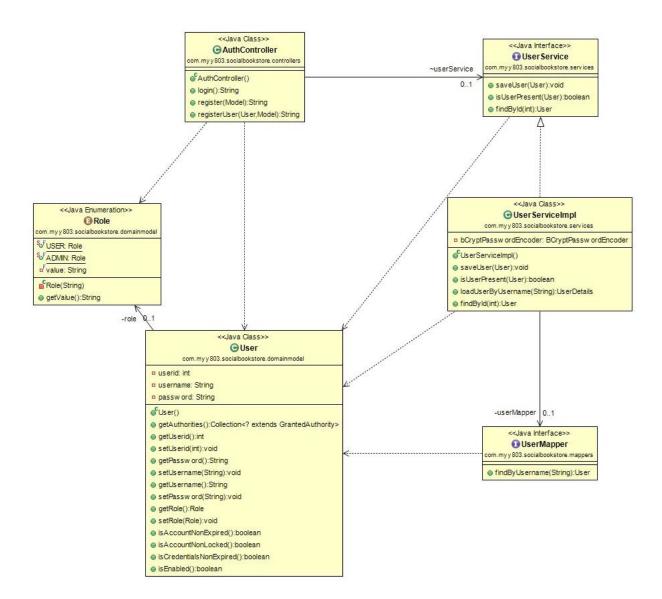
Use case ID	UC10
Actors	User
Pre conditions	The user must sign in to his/her account.
Main flow of	1. The use case starts when the user presses the Search option at the menu.
events	2. The system returns a search form.
	3. The user inserts the proper info and selects Search.
	4. The system searches for the books that match with the search criteria and return the books in a list.
	5. The user can Add request for a book that has interest in.
Alternative	-
flow 1	
Post conditions	The system brings the wanted books for the user to request for.

4.1 Architecture



4.2 Design





Class Name: AuthController		
Responsibilities: Collaborations:		
 Contains the mapping for the login and register use cases 	UserServiceUserRole	

Class Name: UserController		
Responsibilities: Collaborations:		
 Contains the mapping for the rest use 	 UserProfileService 	
cases	 BookFormData 	
	 UserProfileFormData 	
	 SearchFormData 	

Class Name: Book	
Responsibilities: Collaborations:	
 Contains the fields for the book class 	 BookAuthor
	 BookCategory
	 UserProfile

Class Name: BookAuthor		
Responsibilities:	Collaborations:	
 Contains the fields for the author class 	■ Book	

Class Name: BookCategory		
Responsibilities:	Collaborations:	
 Contains the fields for the category class 	■ Book	

Class Name: Role		
Responsibilities:	Collaborations:	
 Enum that specifies the role of the user 	• -	

Class Name: User		
Responsibilities:	Collaborations:	
 Contains the proper fields for the user register 	■ Role	

Class Name: UserProfile	
Responsibilities: Collaborations:	
 Contains the fields for the user profile 	■ Book
	 BookAuthor
	 BookCategory

Class Name: BookFormData	
Responsibilities: Collaborations:	
 Contains the fields for the book that is used in the controller section in order not to have direct access to domain models 	• -

Class Name: UserProfileFormData	
Responsibilities: Collaborations:	
 Contains the fields for the user profile that is used in the controller section in order not to have direct access to domain models 	• -

Class Name: SearchFormData		
Responsibilities:	Collaborations:	
 Contains the fields for the search form that is used in the controller section in order not to have direct access to domain models 	• -	

Class Name: BookAuthorMapper	
Responsibilities:	Collaborations:
 Extends the JpaRepository and its use is to access the database for BookAuthor objects 	■ BookAuthor

Class Name: BookCategoryMapper	
Responsibilities:	Collaborations:
 Extends the JpaRepository and its use is to access the database for BookCategory objects 	 BookCategory

Class Name: BookMapper	
Responsibilities:	Collaborations:
 Extends the JpaRepository and its use is to access the database for Book objects 	■ Book

Class Name: UserMapper	
Responsibilities:	Collaborations:
 Extends the JpaRepository and its use is to access the database for User objects 	User

Class Name: UserProfileMapper	
Responsibilities:	Collaborations:
 Extends the JpaRepository and its use is to access the database for UserProfile objects 	 UserProfile

Class Name: UserProfileService	
Responsibilities:	Collaborations:
 This class is an interface that contains all the actions of the app except the login/register. 	UserProfileFormDataBookFormDataSearchFormData

Responsibilities:	Collaborations:
 Implements the UserProfileService interface Implements all the actions of the interface 	 Book BookAuthor BookCategory UserProfile BookFormData UserProfileFormData SearchFormData BookAuthorMapper BookCategoryMapper BookMapper UserProfileMapper SearchFactory SearchStrategy

Class Name: UserService	
Responsibilities:	Collaborations:
 This class is an interface that contains the action for login and register. 	• User

Class Name: UserServiceImpl	
Responsibilities:	Collaborations:
Implements the UserService interface.Implements all the actions of the	UserUserMapper
interface.	Озеннаррен

Class Name: SearchFactory	
Responsibilities:	Collaborations:
 Takes a string input and returns the proper object that implements SearchStrategy. 	ExactSearchStrategyApproximateSearchStrategy

Class Name: SearchStrategy	
Responsibilities:	Collaborations:
 This class is an interface for search action. 	BookFormDataSearchFormData

Class Name: TemplateSearchStrategy	
Responsibilities:	Collaborations:
 This is an abstract class that implements SearchStrategy interface. Contains the implementation for search action. 	BookBookFormDataSearchFormData
 Contains two abstract classes. 	 BookMapper

Class Name: ExactSearchStrategy	
Responsibilities:	Collaborations:
 Implements the abstract classes from TemplateSearchStrategy 	BookBookAuthor
	 SearchFormData
	 BookMapper

Responsibilities:	Collaborations:
 Implements the abstract classes from TemplateSearchStrategy 	BookBookAuthor
	 SearchFormData
	 BookMapper