Online Social Bookstore Application

Sprint Report

Aspiring CSE Diploma Holders

Kondylia Vergou, 4325 Panagiotis Vouzalis, 2653 Panagiotis Paraskevopoulos, 2905

VERSIONS HISTORY

Date	Version	Description	Author
11/03/2024	1.0	Definition of User Stories and Use Cases	Lia Vergou
22/03/2024	2.0	CRC cards for Sprint 1	Lia Vergou
04/04/2024	2.1	CRC cards for Sprint 2	Lia Vergou
19/04/2024	2.2	CRC cards for Sprint 3	Lia Vergou
01/05/2024	2.3	CRC cards for Sprint 4	Lia Vergou
22/05/2024	2.4	CRC cards for Sprint 5	Lia Vergou

1 Introduction

The objective of this project is to develop an online social bookstore application that allows individuals to exchange used books for free.

1.1 Purpose

This document provides information concerning the last sprint of this project.

1.2 Document Structure

The rest of this document is structured as follows:

- Section 2 describes our Scrum team and specifies the Sprint's backlog.
- Section 3 specifies the main design concepts for this release of the project.

The greyed-out User Stories and Use Cases are not implemented in this sprint and are only referenced for documentation purposes.

2 Scrum team and Sprint Backlog

2.1 Scrum team

Product Owner	Kondylia Vergou
Scrum Master	Panagiotis Vouzalis
Development Team	Kondylia Vergou, Panagiotis Vouzalis, Panagiotis Paraskevopoulos

2.2 Sprints

Sprint No	Begin Date	End Date	Number of weeks	User stories
1	11/03/2024	22/03/2024	2	US1, US2, US3
2	25/03/2024	04/04/2024	2	US4
3	08/04/2024	19/04/2024	2	US5, US6
4	22/04/2024	01/05/2024	1.5	US7
5	08/05/2024	22/05/2024	1.5	US8, US9

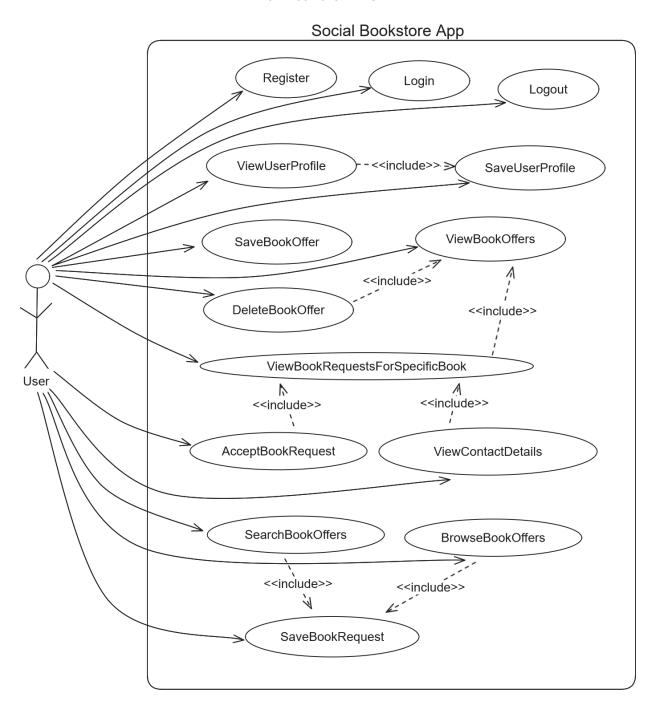
2.3 User Stories

US ID	AS A <user TYPE></user 	I WANT TO <an action=""></an>	IN ORDER TO
US1	User	Create a new account	Access the functionalities of the social bookstore application
US2	User	Login to my account	Access the functionalities of the social bookstore application
US3	User	Logout from my account	Terminate my interaction with the social bookstore application

		-	<u> </u>
US4	User	Create a profile that includes my full name, address, age, phone number, preferred book categories and favorite authors	Facilitate the search/recommendation of books that may be interesting for me
US5	User	Add a book offer in personal list of book offers with a description that includes the book title, the author(s), the category that the book belongs to and a summary of the book	Facilitate the search/recommendation of books by/to other users
US6	User	Browse a list of requests from other users who are interested in a book offer that I have made	Decide to whom I shall give the book
US7	User	Select a user who requested a book from my list and notify him that he can take the book. Notify the rest of the users who requested the book that the book has been taken by another user	Initiate the book exchange with the selected user
US8	User	Access to the contact information of a selected user who requested a book that I offer	Contact the selected user to arrange the delivery of the book
US9	User	Remove a book that is no longer available from my personal list of book offers and from the book request lists of other users who requested for this book	Enable the accurate book search/recommendation

		Search for book offers with a certain title and authors to find interesting books	
US10	User	Choose between an exact or an approximate search strategy	Make the user that offers the book aware of the request
		Make a request for a book that is included in the search results to the user who offers the book	
		Browse a list of recommended book offers from the social bookstore application, to find interesting books	
US11	User	Choose among various recommendation strategies that consider information given in my profile	Make the user that offers the book aware of the request
		Make a request for a recommended book to the user who offers the book so	

1: UML USE CASE DIAGRAM



3.1 UC01: Register

Use case name	Register	
Use case ID	01	
Actors	User	
Preconditions	-	
	The use case starts when the user chooses to register.	
Main flow of	2. The user provides their username and password.	
events	3. The system validates that the username isn't taken.	
	4. The system registers the user.	
	5. The system redirects the user to the login page.	
Alternative flow	If in step 3 the username is taken, then the system displays an error message	
	and cancels the registration process.	
Post conditions	The user is successfully registered.	

3.2 UC02: Login

Use case name	Login	
Use case ID	02	
Actors	User	
Preconditions	-	
	The use case starts when the user chooses to login.	
Main flow of	2. The user provides their username and password.	
events	3. The system validates the credentials.	
	4. The system logs in the user.	
Alternative flow	If in step 3 the credentials are wrong (Username Doesn't Exist or Wrong	
	Password), then the system displays an error message and cancels the login	
	process.	
Post conditions	The user is successfully logged in.	

3.3 UC03: Logout

Use case name	Logout
Use case ID	03
Actors	User
Preconditions	The user is logged in.
Main flow of events	 The use case starts when the user chooses to logout. The system logs out the user.
Post conditions	The user is successfully logged out.

3.4 UC04: SaveUserProfile

Use case name	SaveUserProfile	
Use case ID	04	
Actors	User	
Preconditions	The user is logged in.	
	Include(ViewUserProfile)	
Main flow of events	The user changes their full name, address, age, phone number, favorite book categories and favorite authors.	
	3. The system saves the profile details provided.	
Post conditions	The user profile details are saved.	

3.5 UC05: ViewUserProfile

Use case name	ViewUserProfile
Use case ID	05
Actors	User
Preconditions	The user is logged in.
Main flow of events	 The use case starts when the user selects their profile. The system displays their full name, address, age, phone number, favorite book categories and favorite authors.
Post conditions	The user profile details are displayed.

3.6 UC06: SaveBookOffer

Use case name	SaveBookOffer	
Use case ID	06	
Actors	User	
Preconditions	The user is logged in.	
	1. The use case starts when the user selects to add a book offer.	
Main flow of events	The user provides the book title, the author(s), the category that the book belongs to and a summary of the book.	
	3. The system records the book offer.	
Post conditions	A book offer is saved.	

3.7 UC07: ViewBookRequestsForSpecificBook

Use case name	ViewBookRequestsForSpecificBook	
Use case ID	07	
Actors	User	
Preconditions	The user is logged in.	
Main flow of events	 Include(ViewBookOffers) The user selects one of their book offers. The system displays a list of requests from other users for the specific book offer. 	
Alternative flow 1	If in step 1 the system displays the message "No Book Offers Found", then the use case is terminated.	
Alternative flow 2	If in step 3 no requests were found, then the system displays the message "No Book Requests Found".	
Post conditions	The book requests for the specific book offer are listed.	

3.8 UC08: ViewBookOffers

Use case name	ViewBookOffers	
Use case ID	08	
Actors	User	
Preconditions	The user is logged.	
Main flow of	The use case starts when the user selects to view their book offers.	
events	2. The system displays a list of their book offers.	
Alternative flow	If in step 2 the system doesn't find any book offers, then it displays the	
	message "No Book Offers Found".	
Post conditions	The book offers of the specific user are listed.	

3.9 UC09: AcceptBookRequest

Use case name	AcceptBookRequest	
Use case ID	09	
Actors	User	
Preconditions	The user is logged in, has made at least one book offer and there is at least one book request for the specific offer.	
Main flow of	Include(ViewBookRequestsForSpecificBook)	
events	2. The user selects one of the book requests.	
	3. The user approves the request.	
	 The system notifies the user of the selected book request that their request has been approved. 	
	The system notifies the users of the rest book request that their requests have been denied.	
Post conditions	The selected book request is approved and the rest are denied.	

3.10 UC10: ViewContactDetails

Use case name	ViewContactDetails	
Use case ID	10	
Actors	User	
Preconditions	The user is logged in, has made at least one book offer and there is at least one book request for the specific offer.	
Main flow of events	 Include(ViewBookRequestsForSpecificBook) The user selects one of the book requests. The user chooses to view the contact information of the requestee. The system displays the contact information. 	
Post conditions	The contact information of the selected book request is displayed.	

3.11 UC11: DeleteBookOffer

Use case name	DeleteBookOffer	
Use case ID	11	
Actors	User	
Preconditions	The user is logged in and has made at least one book offer.	
Main flow of events	 Include(ViewBookOffers) The user selects one of their book offers and deletes it. The system deletes the book offer. 	
Post conditions	The book offer is deleted.	

3.12 UC12: SearchBookOffers

Use case name	SearchBookOffers	
Use case ID	12	
Actors	User	
Preconditions	The user is logged in.	
Main flow of	1. The use case starts when the user chooses to search for book offers.	
events	2. The user provides a certain title and authors.	
	3. The user selects an exact or an approximate search strategy.	
	4. The system displays the list of book offers that fit the criteria.	
Alternative flow	If in step 4 the system doesn't find any book offers, then it display the message "No Book Offers Were Found".	
Post conditions	A list of book offers is displayed.	

3.13 UC13: BrowseBookOffers

Use case name	BrowseBookOffers	
Use case ID	13	
Actors	User	
Preconditions	The user is logged in.	
Main flow of events	 The use case starts when the user chooses to browse the book offers. The user selects one of the recommendation strategies that utilize their profile details. The system displays the list of book offers according to the strategy. 	
Alternative flow	If in step 4 the system doesn't find any book offers, then it displays the message "No Book Offers Were Found".	
Post conditions	A list of book offers is displayed.	

3.14 UC14: SaveBookRequest

Use case name	SaveBookRequest	
Use case ID	13	
Actors	User	
Preconditions	The user is logged in.	
Main flow of	Include(SearchBookOffers) or Include(BrowseBookOffers)	
events	2. The user selects a specific book offer.	
	3. The user makes a book request.	
	4. The system records the book request.	
Alternative flow	If in step 1 the system displays the message "No Book Offers Were Found", then the use case is terminated.	
Post conditions	The book request is saved.	

3.15 Possible Future Use Cases

The experience of the user that requests books could be better, we could add at a future version of the app the use cases :

- ViewBookRequests that lists all the book requests that a user has made.
- DeleteBookRequestUseCase that lets a user delete a specific book request.

4.1 Architecture

myy803

social_bookstore

config

controllers

mappers

domain

commands

models

views

FIGURE 2: UML PACKAGE DIAGRAM

FIGURE 3: UML DIAGRAM OF PACKAGE CONFIG

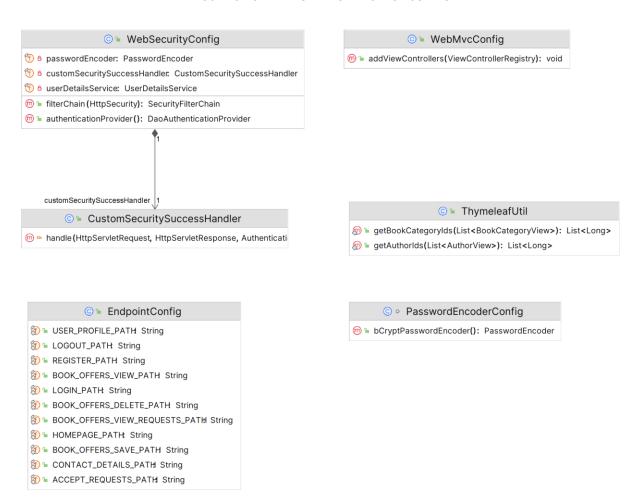


FIGURE 4: UML DIAGRAM OF PACKAGE CONTROLLERS WITH COLLABORATING CLASSESS

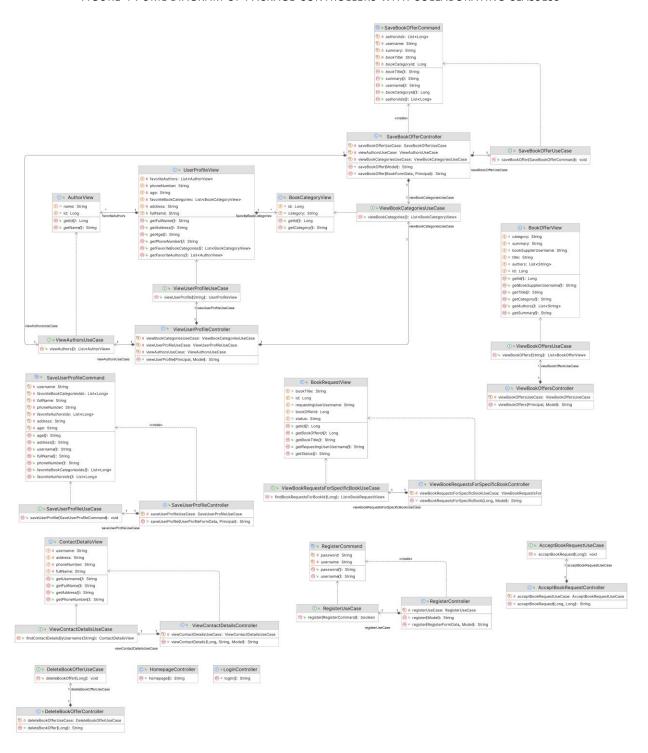


FIGURE 5: UML DIAGRAM OF PACKAGE SERVICES WITH COLLABORATING CLASSESS

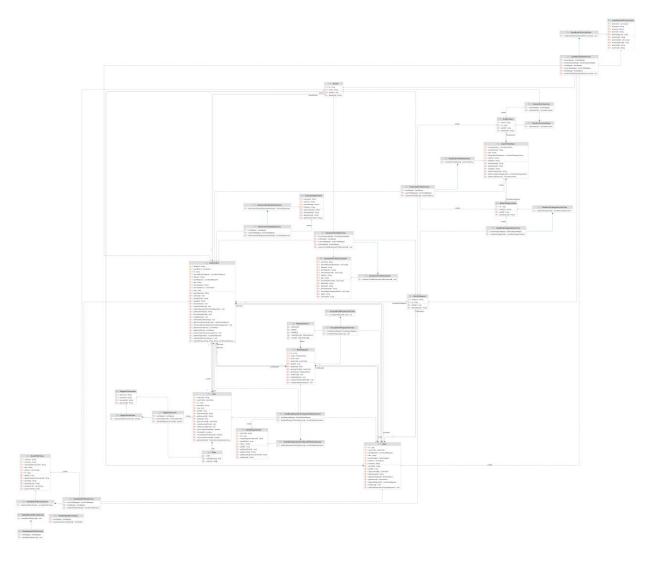


FIGURE 6: UML DIAGRAM OF MAPPERS WITH COLLABORATING CLASSESS

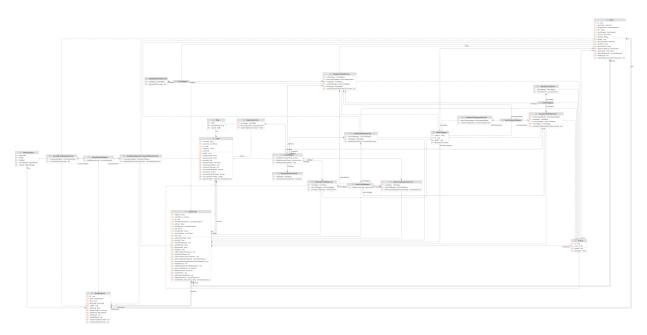


FIGURE 7: UML DIAGRAM OF PACKAGE DOMAIN FORMSDATA

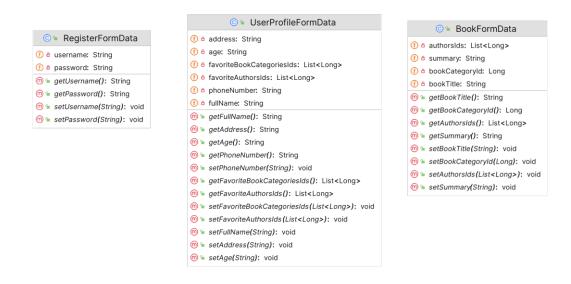


FIGURE 8: UML DIAGRAM OF PACKAGE DOMAIN VIEWS

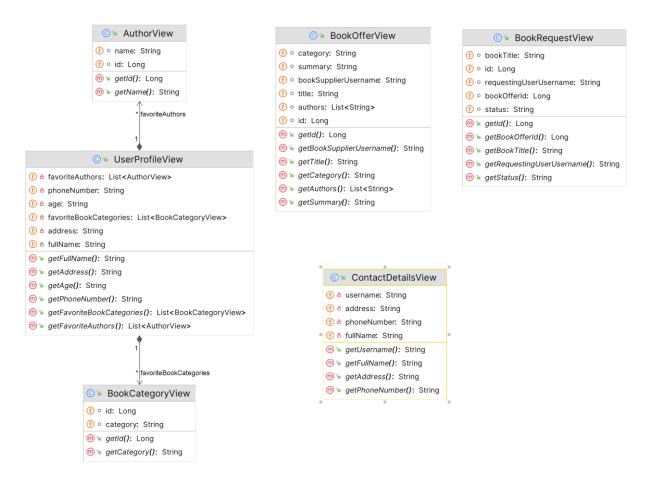


FIGURE 9: UML DIAGRAM OF PACKAGE DOMAIN COMMANDS

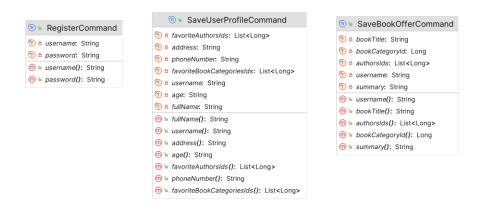
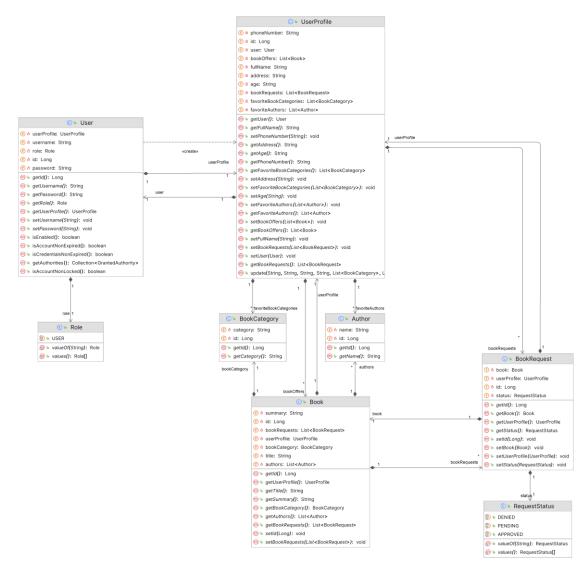


FIGURE 10: UML DIAGRAM OF PACKAGE DOMAIN MODELS



4.2.1 CONFIG

package com.myy803.social_bookstore.config	
Class Name: WebSecurityConfig	
Responsibilities:	Collaborations:
	 PasswordEncoder
	 UserDetailsService
	 CustomSecuritySuccessHandler
 Configures web security for the application. 	 HttpSecurity
	 DaoAuthenticationProvider
	 SecurityFilterChain
	 EndpointConfig

package com.myy803.social_bookstore.config		
Class Name: CustomSecuritySucces	CustomSecuritySuccessHandler	
Responsibilities:	Collaborations:	
	 HttpServletRequest 	
	 HttpServletResponse 	
Handle successful authentication by redirecting	Authentication	
users to a specific target URL.	RedirectStrategy	
	WebSecurityConfig	
	 EndpointConfig 	

package com.myy803.social_bookstore.config		
Class Name: WebMvcConf	ig	
Responsibilities: Configures MVC (Model-View-Controller) for web application.	Collaborations: • ViewControllerRegistry • WebMvcConfigurer	

package com.myy803.social_bookstore.config		
Class Name: PasswordEncoderConfig		
Responsibilities:	Collaborations:	
 Configures a bean for password encoding. 	 BCryptPasswordEncoder 	
	 PasswordEncoder 	

package com.myy803.social_bookstore.config		
Class Name: EndpointConfig		
Responsibilities: • Define constants for endpoint paths used in the application.	Collaborations: None	

package com.myy803.social_bookstore.config		
Class Name: ThymeleafUtil		
Responsibilities: • Provide utility methods for Thymeleaf templates	Collaborations:	

4.2.2 CONTROLLERS

package com.myy803.social_bookstore.controllers			
Class Name: RegisterContro	RegisterController		
Responsibilities:	Collaborations:		
 Handles incoming HTTP requests related to user 	 RegisterUseCase 		
	 RegisterFormData 		
registration.	 RegisterCommand 		
	• Model		
	 EndpointConfig 		

package com.myy803.social_bookstore.controllers			
Class Na	Class Name: LoginController		
Responsi	Responsibilities: Collaborations:		
Handles HTTP GET requests for the login page.		 EndpointConfig 	

package com.myy803.social_bookstore.controllers		
Class Name: HomepageController		
Responsibilities: Collaborations:		
Handles HT	TP GET requests for the homepage.	 EndpointConfig

package com.myy803.social_bookstore.controllers		
Class Name: ViewUserProfileController		
Responsibilities:	Collaborations:ViewUserProfileUseCase	
 Handles HTTP GET requests for viewing user profile. 	ViewBookCategoriesUseCaseViewAuthorsUseCaseUserProfileFormData	
	ModelPrincipalEndpointConfig	

package com.myy803.social_bookstore.controllers			
Class Name: SaveUserProfileCor	e: SaveUserProfileController		
Responsibilities: Collaborations:			
	 SaveUserProfileUseCase 		
 Handles HTTP requests for saving user profile data. 	 UserProfileFormData 		
	Principal		
	 EndpointConfig 		

package com.myy803.social_bookstore.controllers		
Class Name: SaveBookOfferController		
Responsibilities:	Collaborations:	
	 SaveBookOfferUseCase 	
	 BookFormData 	
 Handles HTTP requests for saving book offers 	 ViewBookCategoriesUseCase 	
	 ViewAuthorsUseCase 	
	• Principal	
	 EndpointConfig 	

package com.myy803.social_bookstore.controllers			
Class Name: ViewB	ViewBookOffersController		
Responsibilities:	Collaborations:		
 Handles HTTP GET requests for viewing book offers 	 ViewBookOffersUseCase 		
	Model		
	Principal		
	 EndpointConfig 		

package com.myy803.social_bookstore.controllers			
Class Name:	ss Name: ViewBookRequestsForSpecificBookController		
Responsibilities:	ities: Collaborations:		orations:
 Handles HTTP G requests for a specific 	ET requests for viewing book pecific book	•	ViewBookRequestsForSpecificBookUs eCase Model EndpointConfig

package com.myy803.social_bookstore.controllers			
Class Name: AcceptBookRequestController			
Responsibilities: Collaborations:			
	 Handles HTTP POST requests for accepting a book request for a specific book 		AcceptBookRequestUseCase
bool			EndpointConfig

package com.myy803.social_bookstore.controllers		
Class Name: DeleteBookOfferController		
Responsibilities: Collaborations:		
 Handles HTTP POST requests for deleting a 		 DeleteBookOfferUseCase
	book offer.	 EndpointConfig

package com.myy803.social_bookstore.controllers		
Class Name: ViewContactDetailsCo	ViewContactDetailsController	
Responsibilities: Collaborations:		
 Handles HTTP POST requests for viewing the 	 ViewContactDetailsUseCase 	
contact details of a user that made a book request.	• Model	
'	 EndpointConfig 	

4.2.3 SERVICES

package com.myy803.social_bookstore.services		
Class Name: RegisterUseCase		
Responsibilities:	Collaborations:	
	 RegisterCommand 	
Defines the contract for user registratio	n. • RegisterService	

package com.myy803.social_bookstore.services		
Class Name: RegisterS	ervice	
Responsibilities:	Collaborations:	
	 RegisterUseCase 	
 Implements the RegisterUseCase interface. 	 PasswordEncoder 	
 Registers a new user. 	 UserMapper 	
	 RegisterCommand 	
	• User	
	• Role	

package com.myy803.social_bookstore.services		
Class Name: UserDetailsServi	UserDetailsServiceImp	
Responsibilities:	Collaborations:	
 Implements the UserDetailsService interface. 	 UserDetailsService 	
Loads user by username.	 UserMapper 	
	 UserDetails 	

package com.myy803.social_bookstore.services		
Class Name: ViewUserProfileUseCase		
Responsibilities:	Collaborations:	
Defines the contract for viewing a user profi	le. • UserProfileView	
	 ViewUserProfileService 	

package com.myy803.social_bookstore.services		
Class Name: ViewUserProfileService		
Responsibilities: Collaborations:		
	 ViewUserProfileUseCase 	
	 UserMapper 	
 Implements the ViewUserProfileUseCase 	 UserProfileMapper 	
 Maps the UserProfile domain model to the UserProfileView view object. 	 UserProfileView 	
	 UserProfile 	
	 BookCategoryView 	
	 AuthorView 	

package com.myy803.social_bookstore.services		
Class Name: ViewBookCategoriesUseCase		
Responsibilities: • Defines the contract for viewing all the book categories.	Collaborations: • BookCategoryView	
	 ViewBookCategoriesService 	

package com.myy803.social_bookstore.services		
Class Name: ViewBookCategoriesService		
Responsibilities:	Collaborations:	

package com.myy803.social_bookstore.services		
Class Name: ViewAuthorsUseCase		
Responsibilities:	Collaborations:	
Defines the contract for viewing all the authors.	AuthorView	
	 ViewAuthorsService 	

package com.myy803.social_bookstore.services		
Class Name: ViewAuthorsService		
Responsibilities:	Collaborations:	
 Implements the ViewAuthorsUseCase interface. 	 ViewAuthorsUseCase 	
 Maps the Author domain model to the AuthorView view object. 	 AuthorMapper 	
	AuthorView	

package com.myy803.social_bookstore.services			
Class Name:	Class Name: SaveUserProfileUseCase		
Responsibilities:	Collaborations:		
Defines the con	tract for saving user profile data.	•	SaveUserProfileCommand
		•	SaveUserProfileService

package com.myy803.social_bookstore.services			
Class	Class Name: SaveUserProfileService		
Respon	Implements the SaveUserProfileUseCase interface. Saves the user profile data.	Collaborations:	

package com.myy803.social_bookstore.services		
Class Name: SaveBookOfferU	SaveBookOfferUseCase	
Responsibilities: • Defines the contract for saving a book offer.	Collaborations:	

package com.myy803.social_bookstore.services		
Class Name: SaveBookOfferService		
 Implements the SaveBookOfferUseCase interface. Saves a book offer. 	Collaborations:	

package com.myy803.social_bookstore.services		
Class Name: ViewBookOffersUseCase		
Responsibilities: • Defines the contract for viewing the book offers of a user.	Collaborations:	

package com.myy803.social_bookstore.services		
Class Name: ViewBookOffersService Responsibilities: Collaborations:		
 Implements the ViewBookOffersUseCase 	 UserMapper 	
interface.	 UserProfileMapper 	
Returns a view of all book offers that the user	 UserProfile 	
has made.	• Book	
	• Author	

package com.myy803.social_bookstore.services

Class Name: V	ViewBookRequestsForSpecificBookUseCase		
Responsibilities: • Defines the contract for a specific book.	or viewing book requests	Collab •	orations: BookRequestView ViewBookRequestsFor SpecificBookService

package com.myy803.social_bookstore.services		
Class Name: ViewBookRequestsForSpecificBookService Responsibilities: Collaborations:		
		 Implements the ViewBookRequestsForSpecificBookUseCase interface Returns a view of all book requests for a specific book.

package com.myy803.social_bookstore.services	
Class Name: AcceptBookRequestUseCase	
Responsibilities: • Defines the contract for accepting a book request for a specific book.	Collaborations: • AcceptBookRequestService

package com.myy803.social_bookstore.services			
Class Name: AcceptBookRequestService			
Responsibilities: Collaborations:			
 Implements th interface 	e AcceptBookRequestUseCase	•	AcceptBookRequestUseCase BookRequestMapper
 Accepts a book denies all the of 	request for a specific book and other requests	•	BookRequest
	·	•	Book

package com.myy803.social_bookstore.services		
Class Name: DeleteBookOfferUseCase		
Responsibilities: Collaborations:		
•	Defines the contract for deleting a book offer.	 DeleteBookOfferService

package com.myy803.social_bookstore.services		
Class Name: DeleteBookOffe	erService	
Responsibilities: • Implements the DeleteBookOfferUseCase	Collaborations: • DeleteBookOfferUseCase	
interface.	 BookMapper 	
 Deletes a book offer and its book requests. 		

package com.myy803.social_bookstore.services			
Class Name: ViewContactDetailsUseCase			
Responsibilities: Collaborations:		orations:	
		•	ContactDetailsView
	Defines the contract for viewing the contact details of a user that made a book request.	•	ViewContactDetailsService

package com.myy803.social_bookstore.services		
Class Name: DeleteBookOfferService		
Responsibilities:	Collaborations:	
	 ViewContactDetailsUseCase 	
 Implements the ViewContactDetailsUseCase interface. Returns a view of the contact details of a user that made a book request. 	 UserMapper 	
	 UserProfileMapper 	
	 ContactDetailsView 	
	 UserProfile 	

4.2.4 MAPPERS

package com.myy803.social_bookstore.mappers		
Class Name: UserMapper		
Responsibilities: • Define methods for accessing and	Collaborations: ● JpaRepository	
user data in the database	• User	

package com.myy803.social_bookstore.mappers	
Class Name: UserProfileMapper	
Responsibilities: • Define methods for accessing and manipulating user profile data in the database.	Collaborations:

package com.myy803.social_bookstore.mappers	
Class Name: BookCategoryMapper	
Responsibilities:	Collaborations:
 Define methods for accessing a 	nd manipulating • JpaRepository
book category data in the datak	oase. • BookCategory

package com.myy803.social_bookstore.mappers	
Class Name: AuthorMapper	
Responsibilities: • Define methods for accessing and manipul	Collaborations: • JpaRepository
author data in the database.	• Author

package com.myy803.social_bookstore.mappers		
Class	Name: BookMapper	
Respo	nsibilities:	Collaborations:
•	Define methods for accessing and manipulating	 JpaRepository
	book data in the database.	• Book

package com.myy803.social_bookstore.mappers	
Class Name: BookRequestMapper	
Responsibilities:	Collaborations:
Define methods for accessing and manipulating	 JpaRepository
book requests in the database.	 BookRequest

4.2.5 DOMAIN FORMSDATA

package com.myy803.social_bookstore.domain.formsdata	
Class Name: RegisterFormData	
Responsibilities:	Collaborations:
 Transfers data from the register view page to the RegisterController. 	None

package com.myy803.social_bookstore.domain.formsdata		
Class Name: UserProfileFormData		
Responsibilities:	Collaborations:	
 Transfers data from the user profile view page to the ViewUserProfileController and SaveUserProfileController. 	None	

package com.myy803.social_bookstore.domain.formsdata	
Class Name: BookFormData	
Responsibilities: • Transfers data from the save book offer view page to the SaveBookOfferController.	Collaborations: None

4.2.6 DOMAIN VIEWS

package com.myy803.social_bookstore.domain.views	
Class Name: UserProfileView	
Responsibilities:	Collaborations:
 Transfers user profile data from the services 	 BookCategoryView
layer to the ViewUserProfileController.	• AuthorView

package com.myy803.social_bookstore.domain.views	
Class Name: BookCategoryView	
Responsibilities:	Collaborations:
 Transfers book data from the services layer to the ViewUserProfileController. 	None

package com.myy803.social_bookstore.domain.views	
Class Name: AuthorView	
Responsibilities: • Transfers author data from the services layer to the ViewUserProfileController.	Collaborations: None

package com.myy803.social_bookstore.domain.views	
Class Name: BookOfferView	
Responsibilities:	Collaborations:
 Transfers book offer data from the services layer to the ViewBookOffersService. 	None

package com.myy803.social_bookstore.domain.views	
Class Name: BookRequestView	
Responsibilities:	Collaborations:
 Transfers book request data from the services layer to the ViewBookRequestsForSpecificBookController. 	None

package com.myy803.social_bookstore.domain.views	
Class Name: ContactDetailsView	
Responsibilities:	Collaborations:
 Transfers contact details data from the services layer to the ViewContactDetailsController. 	None

4.2.7 DOMAIN COMMANDS

package com.myy803.social_bookstore.domain.commands	
Class Name: RegisterCommand	
Responsibilities:	Collaborations:
 Transfers data from the RegisterController to the services layer. 	None

package com.myy803.social_bookstore.domain.commands		
Class Name: SaveUserProfileCommand		
Responsibilities: • Transfers data for Save User Profile		Collaborations: None
SaveuserProfile	Controller to the services layer.	

package com.myy803.social_bookstore.domain.commands	
Class Name: SaveBookOfferCommand	
Responsibilities: • Transfers data from the SaveBookOfferController to the services layer.	Collaborations: None

4.2.8 DOMAIN MODELS

package com.myy803.social_bookstore.domain.models	
Class Name: User	
Responsibilities:	Collaborations:
 Represents a user entity with attributes such as username, password, and role. Implements the UserDetails interface, providing user authentication and authorization details. 	RoleGrantedAuthorityUserProfile

package com.myy803.social_bookstore.domain.models	
Class Name: Role	
Responsibilities:	Collaborations:
Represents the role of a user.	None

package com.myy803.social_bookstore.domain.models		
Class Name: Use	rProfile	
Responsibilities:	Collaborations:	
Represents the user profile data.	• User	
	 BookCategory 	
	Author	
	• Book	
	 BookRequest 	

package com.myy803.social_bookstore.domain.models	
Class Name: BookCategory	
Responsibilities:	Collaborations:
Represents the book category data.	None

package com.myy803.social_bookstore.domain.models		
Class Name: Author		
Responsibilities:		Collaborations:
• Represents	the author data.	None

package com.myy803.social_bookstore.domain.models	
Class Name: Book	
Responsibilities:	Collaborations:
Represents a book entity with its properties.	 UserProfile
	 BookCategory
	• Author
	BookRequest

package com.myy803.social_bookstore.domain.models		
Class Name: Bool	BookRequest	
Responsibilities:	Collaborations:	
Represents a book request entity.	• Book	
	 UserProfile 	
	 RequestStatus 	

package com.myy803.social_bookstore.domain.models		
Class Name: RequestStatus		
Responsibilities: • Define the possible statuses of a book request:	Collaborations: None	
pending, approved, and denied.		

4.3 Tests

Tests have been created for the controllers, services, and mappers of the application.

- The controllers are tested with integration tests to verify the interactions between the different components and all three layers, the web, services and database layer.
- The services are tested with unit tests to focus on the functionality and logic.
- The mappers are tested with integration tests since they interact with the database.

The acceptance tests for each use case have been performed through the UI.

5 Thank you Note!

Thank you for reading our Report!

Lia Vergou Notis Vouzalis Panagiotis Paraskevopoulos

