
Tiem Ban Nuoc

**Book Lovers
Use-Case Specification**

Version 4.0

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

Revision History

Date	Version	Description	Author
23/10/23	1.0	Initial ideas - PA0	Group 11
25/10.23	2.0	Finalize ideas - PA1	Group 11
12/11/23	3.0	Design basic interface	Group 11
22/11/23	4.0	Software Architecture Document	Group 11

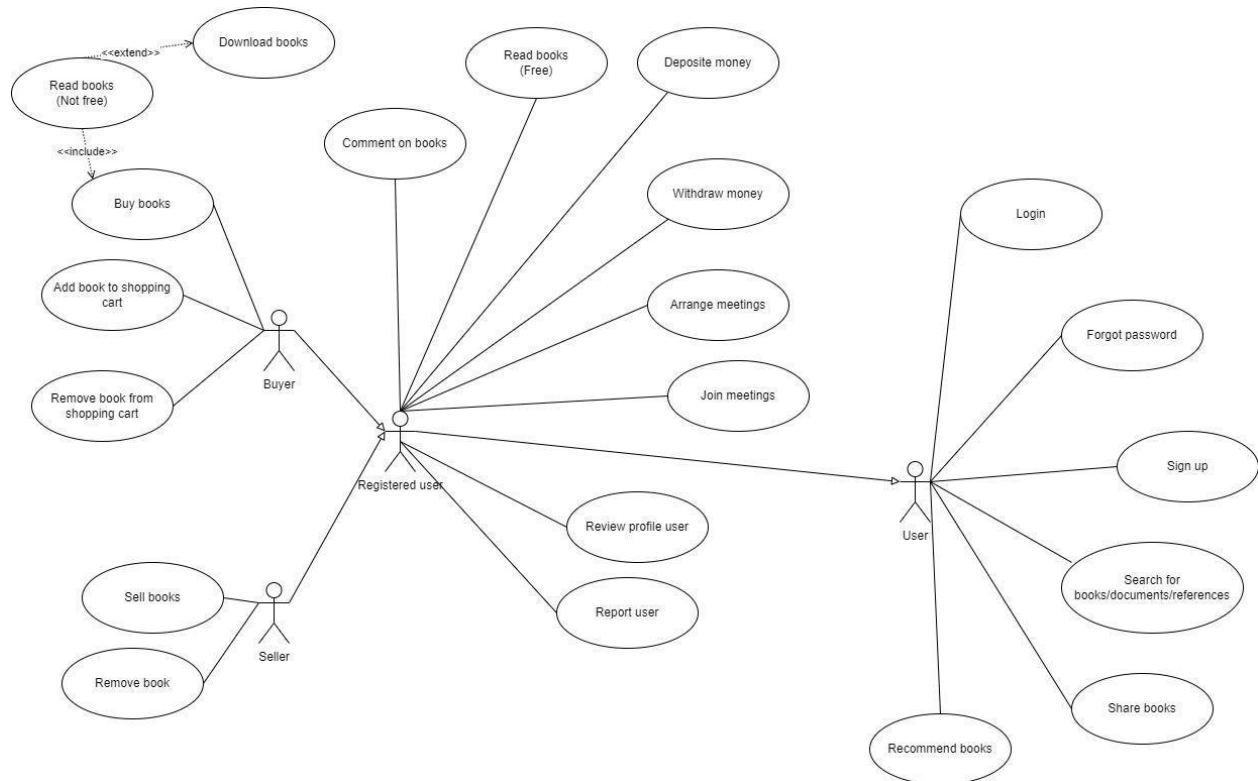
Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

Table of Contents

1. Use-case Model	4
2. Use-case Specifications	4
2.1 Use-case: Login	4
2.2 Use-case: Forgot password	5
2.3 Use-case: Sign-up	6
2.4 Use case: Read books	7
2.5 Use case: Deposit money	7
2.6 Use case: Withdraw money	8
2.7 Use case: Buy books	9
2.8 Use case: Sell books	9
2.9 Use case: Search for books, documents, references	10
2.10 Use case: Recommend new books	10
2.11 Use case: Comment on books	11
2.12 Use case: Share books	11
2.13 Use case: Arrange meetings	11
2.14 Use case: Join meetings	12
2.15 Use case: Review profile user	12
2.16 Use case: Report user	13
2.17 Use case: Add books	13
2.18 Use case: Remove books	14
2..19 Use case: Download books	14

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

1. Use-case Model



2. Use-case Specifications

2.1 Use-case: Login

Use case Name	Login
Brief description	Users can enter their email and password to sign in to their accounts. There are also “forgot password” and “sign up” options for them to choose
Actors	User
Basic Flow	<ul style="list-style-type: none"> First, users can enter their email and password and press the “Login” button. Then, the program will get the data from the database to find if there is an email that matches the email that users entered. <ul style="list-style-type: none"> If the email is registered and the password is correct, users will be linked to the Home page If the email is registered but the password is not correct, the web will notify users so they can check their email or password If the email is not registered the web will notify users and they can sign up by clicking the link which leads them to sign up page If they forgot their password, they can press “Forgot password” button
Alternative Flows	Alternative flow 1: The user enters an invalid email or password

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

	<ul style="list-style-type: none"> The system displays an error message informing the user that the username or password is invalid. The system prompts the user to re-enter the username and password. If the user re-enters an invalid username or password, the system repeats steps 1 and 2. <p>Alternative flow 2: The user's account is disabled</p> <ul style="list-style-type: none"> The system will display a notification informing the user that their account is disabled. Users can sign up by clicking the link which leads them to the sign-up page.
Pre-conditions	<ul style="list-style-type: none"> User goes to Book Lovers page The user must have a valid account on the system. The user's account must not be locked or disabled.
Post-conditions	<p>Login successfully</p> <ul style="list-style-type: none"> If the email and password are correct, the user will be redirected to the Home page <p>Login fail</p> <ul style="list-style-type: none"> If the user is unable to log in, an error message will be displayed and the user must reenter their email, and password <p>Forgot password</p> <ul style="list-style-type: none"> If the user can not remember the password, the web will redirect user to the "forgot password" page for him to change the password <p>Sign-up</p> <ul style="list-style-type: none"> If the user does not have an account, he can go to the "sign-up" page to create a new account

2.2 Use-case: Forgot password

Use case Name	Forgot password
Brief description	In case users forget their password, the web will provide a function which help them to change their password
Actors	User
Basic Flow	<ul style="list-style-type: none"> Users enter their email which is registered with their account <ul style="list-style-type: none"> If the email does not exist, the web will notify users and redirect them back to the login page If the email exists, the system sends to them an OTP code to confirm if the user is the owner of this account After confirming, users can change their password to a new one and this password will be changed in database too
Alternative Flows	<p>Alternative flow 1: The user enters incorrect OTP</p> <ul style="list-style-type: none"> The system displays an error message informing the user that the OTP does not match. Users can request the system to send the OTP again

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

	<ul style="list-style-type: none"> • Or they can back to the log-in page <p>Alternative flow 2: The user's account is locked or disabled</p> <ul style="list-style-type: none"> • The system displays an error message informing the user that their account is locked or disabled. • The web will back to the log-in page <p>Alternative flow 3: The user's account does not exist</p> <ul style="list-style-type: none"> • The system displays an error message informing the user that their account does not exist • The web will back to the log-in page
Pre-conditions	Valid account <ul style="list-style-type: none"> • The account, which is entered by the user must be registered, and the user must be the owner of this account
Post-conditions	The two OTPs are the same <ul style="list-style-type: none"> • User can change his password and confirm that new password again • The web will redirect the user back to the log-in page The two OTPs are not the same <ul style="list-style-type: none"> • This means that this user is not the owner of this account or user just type wrongly the OTP • User can request the system to send OTP again

○ 2.3 Use-case: Sign-up

Use case Name	Sign up
Brief description	If the user has not had an account, the user could create one by entering their email and providing a password for his account
Actors	User
Basic Flow	<ul style="list-style-type: none"> • Users enter the email which they want to register and the system will check the database <ul style="list-style-type: none"> ○ If the email exists, the web will notify them and force them back to the login page ○ If the email does not exist, go to next step • Users enter a password and reenter that password, the system will check if two passwords are the same <ul style="list-style-type: none"> ○ If the two passwords are the same, the system sends to them an OTP code to confirm ○ If the two passwords are not the same the web will notify them and users must confirm their password again
Alternative Flows	<p>Alternative flow 1: The user enters two different passwords</p> <ul style="list-style-type: none"> • The system displays an error message informing the user that the passwords do not match.

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

	<ul style="list-style-type: none"> • Users need to confirm their password again • Users can do this until the two passwords are the same or they can back to the Login page <p>Alternative flow 2: The user's account is already in use</p> <ul style="list-style-type: none"> • The system displays an error message informing the user that their account is already in use. • The system offers the user the option to try again with a different email address or try to log in with that email. • If the user chooses to try again, the system returns the user to the sign-up page. • If the user chooses to log in, the web will redirect them to the log-in page
Pre-conditions	<p>New account</p> <ul style="list-style-type: none"> • The account, which is entered by the user must not be registered
Post-conditions	<p>The account already exists</p> <ul style="list-style-type: none"> • User can reenter the email • Or they can back to the Login page to log in again <p>The two passwords are not the same</p> <ul style="list-style-type: none"> • User can confirm their passwords again or they can change to a new password and confirm it

○ 2.4 Use case: Read books

Use case Name	Reading books
Brief description	Users are provided a pdf link to reading book
Actors	User (buyer)
Basic Flow	<p>When the user clicks to a book:</p> <ul style="list-style-type: none"> • If the book is free, the link pdf's book is unhidden • If the book needs to be paid: <ul style="list-style-type: none"> ○ If the user did not pay for the book, the system displays message "You have to pay to read this book" ○ If the user has paid the book, the system displays the link pdf's book
Alternative Flows	<p>Alternative flow 1: If the link pdf's book is not exist</p> <ul style="list-style-type: none"> • The system displays message "Coming soon"
Pre-conditions	<p>The book are valid and legal</p> <ul style="list-style-type: none"> • The book satisfies the laws where it is serviced (local laws, region laws, ect). <p>The link are valid and legal</p> <ul style="list-style-type: none"> • The link has not to refer to another service provider that provides the same services as ours. • The link has not to refer to illegal link in violence, terrorism, ect.
Post-conditions	The link pdf will be unhidden and be ready clicked to downloading or reading

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

○ 2.5 Use case: Deposit money

Use case Name	Deposit money
Brief description	If users want to buy a book , they must use money in the wallet of their account to pay for that book. Therefore , they must deposit money to their account using momo wallet
Actors	User (Registered User)
Basic Flow	When the users click to wallet on tab bar and choose deposit section: <ul style="list-style-type: none"> • The users will be moved to the deposit page , it has our QR code momo.The user will scan the QR code and they will be moved to their momo wallet to enter the amount they want to deposit. • After transferring money completely , the system will update the user's wallet of their account.
Alternative Flows	Alternative flow 1: They haven't scan the QR code after 60 seconds <ul style="list-style-type: none"> • The system will not allow transfers of money. • Users need to refresh the QR code and scan it again. Alternative flow 2: Scanning QR code is failed. <ul style="list-style-type: none"> • The user will refresh QR code
Pre-conditions	They must have an account on the web. <ul style="list-style-type: none"> • The user must sign up an account on the web The user must have a momo wallet. <ul style="list-style-type: none"> • The user must create an account on momo wallet.
Post-conditions	The users transfer completely <ul style="list-style-type: none"> • The user receives notification transferring completely from the system. • The system prints confirmation codes that include transaction code and transaction date.

○

○ 2.6 Use case: Withdraw money

Use case Name	Withdraw money
Brief description	User can withdraw money from the account wallet
Actors	User (Registered User)
Basic Flow	When the users click to wallet on tab bar and choose withdraw section : <ul style="list-style-type: none"> • The users will be moved to the withdraw page , it has two sections : section to enter the amount you want to withdraw and section you enter the phone number of momo wallet that you want to receive money .Then, the user click on the button confirm to implement delivery • After the transaction completes, the system will update the user's wallet of their account.
Alternative Flows	Alternative flow 1: The withdrawal is more than the amount in their account wallet. <ul style="list-style-type: none"> • Users need to enter the amount again

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

	Alternative flow 2: The phone number doesn't exist in momo wallet. <ul style="list-style-type: none"> Users need to enter the phone number again
Pre-conditions	The phone number must exist in the momo wallet. The withdrawal must be equal or less than the account wallet.
Post-conditions	The system transfer completely <ul style="list-style-type: none"> The user receives notification that the transaction is complete from the system. The system prints confirmation codes that include transaction code and transaction date.

○ 2.7 Use case: Buy books

Use case Name	Buying book
Brief description	User have to pay for the book is not free
Actors	User (Buyer)
Basic Flow	When the user clicks to a book which is not free <ul style="list-style-type: none"> If the book was paid, the pay button will be replaced by the read button If the book was not paid: <ul style="list-style-type: none"> User have to click the pay button and pay for it After the process above, the paybutton will be replaced by the read button
Alternative Flows	Alternative flow 1: If the user did not pay for the book and he/she clicked to the pay button but did not finish the pay act <ul style="list-style-type: none"> The pay button will be still showed so the user will still be not able to unlock the read button
Pre-conditions	The book was not deleted or banned <ul style="list-style-type: none"> If the book was not deleted by the user who posted or sold this book. If the book was not banned by us (based on rules, laws or requirements by other users by banning use-case or any government department ordering). The link are still alive <ul style="list-style-type: none"> If the link was not deleted by the user who posted or sold this book. If the link did not dead The user's account have to be enough money for payment
Post-conditions	After paying, the user's interface is forwarded to use-case reading book

○ 2.8 Use case: Sell books

Use case Name	Sell books
Brief description	Users can sell a book that they have written and earn some money by selling that book
Actors	User (seller)
Basic Flow	<ul style="list-style-type: none"> Users convert their book to pdf and insert the file on upload box They need to choose that their book is free or need to be paid to read They need to fill the description box, where the reader can preview their book before they decide to read

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

	<ul style="list-style-type: none"> • Seller will receive money by selling their books and they also can withdraw their money back
Alternative Flows	Alternative flow 1: The book's format is not correct <ul style="list-style-type: none"> • System will notify to the user and he need to change the file's format to submit again
Pre-conditions	<p>The book file must be in correct format</p> <ul style="list-style-type: none"> • If the book is not in correct format, seller must change it <p>Legal book</p> <ul style="list-style-type: none"> • Posted books must comply with all web site rules and country laws
Post-conditions	<p>Every users can buy</p> <ul style="list-style-type: none"> • Ensure every users can access and buy the seller's book <p>Sellers can receive their money</p> <ul style="list-style-type: none"> • Ensure the sellers can withdraw the money back from their wallet

○ 2.9 Use case: Search for books, documents, references

Use case Name	Search for books, documents, references
Brief description	Users can search for a specific book, document or reference by keywords (name)
Actors	User
Basic Flow	<p>The users click onto the search box and type in the keyword (name) of the book, document or reference they want to search for.</p> <p>Then the system will take the keyword and query on the database to find the book, document or reference required by the users.</p> <p>If the query resulted in a list of books based on the keyword given by the users then the books of the list will be sorted in alphabetical order and shown to the users.</p>
Alternative Flows	Alternative flow 1: If there are no books that match the keyword: <ul style="list-style-type: none"> • The system will show an error message saying that “Book, document and reference not found”.
Pre-conditions	<p>User goes to Book lovers page</p> <p>The user's account must not be locked or disabled.</p> <p>The user must type the keyword of the book/document/reference into the search box in order that system use the keyword to perform the query</p>
Post-conditions	<ul style="list-style-type: none"> • Books/Documents/References found: <ul style="list-style-type: none"> ○ Choose a book/document/reference ○ Search with another keyword • Books/Documents/References not found: <ul style="list-style-type: none"> ○ Go back to homepage ○ Search again using other keyword

○ 2.10 Use case: Recommend new books

Use case Name	Recommendation
---------------	----------------

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

Brief description	The user is suggested other books when he/she is on any book's site
Actors	User
Basic Flow	<ul style="list-style-type: none"> When the user is being on any book site <ul style="list-style-type: none"> The space near by the book shows a short list of books related to the book by content, kind, type, author, ect.
Alternative Flows	Alternative flow 1: If any book was paid by the user, it is removed from the recommended list.
Pre-conditions	The book is being viewed by the seller (poster) was classified by author, type, kind, content, ect
Post-conditions	The list is sorted descending by the number of field related with the viewing book

○

○ **2.11 Use case: Comment on books**

Use case Name	Reviews/Comment on books
Brief description	Users can leave comments or write reviews on the book that they have read
Actors	User (Registered User)
Basic Flow	After finishing reading books, there will be a comment section where the readers can leave comments about their reading experience or write reviews so that others can look at those reviews about the book they are about to read.
Alternative Flows	None
Pre-conditions	<ul style="list-style-type: none"> User goes to Book lovers page The user must have a valid account on the system. The user's account must not be locked or disabled. Users have to finish reading books before writing reviews or comments
Post-conditions	After users comment or write reviews: <ul style="list-style-type: none"> Other users are able to read those comments and reviews to decide whether they should read or not

○ **2.12 Use case: Share books**

Use case Name	Sharing book
Brief description	The user can share the book site to other users or other media platforms such as Facebook, Instagram, Zalo, X, Snapchat, Messenger, ect.
Actors	User
Basic Flow	<ul style="list-style-type: none"> User click to the share button He/she has to choose a gate cho share Facebook, Instagram, Zalo, X, Snapchat, Messenger or copy the link to the book site <ul style="list-style-type: none"> If he/she chooses the method “copy the link to the book site”, he/she can paste it everywhere.
Alternative Flows	None
Pre-conditions	The book is being viewed by the seller (poster) was classified by author, type, kind, content, ect
Post-conditions	The list is sorted descending by the number of field related with the viewing book

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

○

○ **2.13 Use case: Arrange meetings**

○

Use case Name	Having a meeting
Brief description	An user can create a calendar for a meeting clearly with exactly time and the link refer to the site where the meeting will be organized
Actors	User (Registered User)
Basic Flow	<ul style="list-style-type: none"> First, user create a meeting with clearly with exactly time and the link refer to the site where the meeting will be organized The user holds the meeting can invite other users <ul style="list-style-type: none"> If any user agrees join the meeting, the user-holder can see him/her in the participant list The user-holder can cancel the meeting before the time, everyone in participant list will be received notification
Alternative Flows	Alternative flow 1: If the user creates a meeting with the start-time passed in the past, so he/she cannot finish the process. It will be rejected by the system.
Pre-conditions	<ul style="list-style-type: none"> The meeting's start-time have to be on the future clearly
Post-conditions	

○

○ **2.14 Use case: Join meetings**

Use case Name	Join meetings
Brief description	Users can join existing meetings online
Actors	User (Registered User)
Basic Flow	<ul style="list-style-type: none"> Users open the meeting tab where all the existing and available meetings can be joined by users. Users then click on a meeting that they want to join.
Alternative Flows	None
Pre-conditions	<ul style="list-style-type: none"> User goes to the Book Lovers page. The user must have a valid account on the system. The user's account must not be locked or disabled. The meetings are available. Join the meetings once they have started.
Post-conditions	<ul style="list-style-type: none"> After joining meetings: <ul style="list-style-type: none"> Users can use text or voice chat with other users. Users can hear and see other chatting and conversation.

○ **2.15 Use case: Review profile user**

Use case Name	Review Profile User
---------------	---------------------

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

Brief description	This use case involves a registered user reviewing their own profile information, such as name, avatar, and email on the Book Lover web app.
Actors	User (Registered User)
Basic Flow	<ul style="list-style-type: none"> • The registered user logs in to the Book Lover web app. • The user navigates to their profile page. • The system displays the user's information, including name, avatar, email,etc...
Alternative Flows	Alternative flow 1: If the user decides not to make any changes, they can exit the edit profile mode without saving.
Pre-conditions	<ul style="list-style-type: none"> • The registered user must be logged in. • The profile must exist.
Post-conditions	The user's profile information is successfully reviewed

○ **2.16 Use case: Report user**

Use case Name	Report User
Brief description	This use case involves a user reporting another user's inappropriate behavior or content.
Actors	User (Registered User)
Basic Flow	<ul style="list-style-type: none"> • The registered user identifies inappropriate content or behavior on another user's profile. • The registered user initiates the report functionality. • The system prompts the user to provide details and context for the report. • The user submits the report.
Alternative Flows	Alternative flow 1: If the report is related to illegal activities, the system may involve law enforcement.
Pre-conditions	<ul style="list-style-type: none"> • The registered user must be logged in. • The reported user's profile must exist.
Post-conditions	The report is submitted for moderation, and appropriate actions will be taken.

○ **2.17 Use case: Add book to shopping cart**

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

Use case Name	Add Book to Shopping Cart
Brief description	This use case involves a user adding a book to their shopping cart for future purchases.
Actors	User (Buyer)
Basic Flow	<ul style="list-style-type: none"> • The registered user searches for a book or browses through the available books. • The user selects a book they want to purchase. • The system adds the selected book to the user's shopping cart. •
Alternative Flows	Alternative flow 1: The user may choose to continue shopping and add more books to the cart before proceeding to checkout.
Pre-conditions	<ul style="list-style-type: none"> • The registered user must be logged in. • The selected book must be available for purchase.
Post-conditions	The book is successfully added to the user's shopping cart.

○ **2.18 Use case: Remove books from shopping cart**

Use case Name	Remove Books from Shopping Cart
Brief description	This use case involves a user removing one or more books from their shopping cart.
Actors	User (Buyer)
Basic Flow	<ul style="list-style-type: none"> • The registered user navigates to their shopping cart. • The user reviews the contents of the shopping cart. • The user selects the book(s) they want to remove. • The system removes the selected book(s) from the shopping cart.
Alternative Flows	Alternative flow 1: The user may decide not to remove any books and proceed to checkout.
Pre-conditions	<ul style="list-style-type: none"> • The registered user must be logged in. • The shopping cart must have at least one book.
Post-conditions	The selected book(s) are successfully removed from the user's shopping cart.

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

○ 2.19 Use case: Remove books

Use case Name	Remove Books
Brief description	This use case involves a user removing one or more books they don't want to buy
Actors	User (Seller)
Basic Flow	<ul style="list-style-type: none"> • The user chooses section remove book on the tab bar • The screen will appear all the book they add • The user will choose the book they want to remove , then they click on the button remove to remove all the books that they chose • The system will remove the books that users chose after they click on the button remove.
Alternative Flows	Alternative flow 1: They chose the books to remove but they didn't click on the remove button, so the system won't remove them.
Pre-conditions	<ul style="list-style-type: none"> • The registered user must be logged in. • Users must click on the remove button after choosing books.
Post-conditions	The notification about removal successfully after clicking on the remove button

○ 2.20 Use case: Download books

Use case Name	Download Books
Brief description	This use case involves a user downloading a book they have purchased or obtained through other means.
Actors	User (Buyer)
Basic Flow	<ul style="list-style-type: none"> • The registered user navigates to their purchased books or library. • The user selects the book they want to download. • The system provides an option to download the selected book. • The user initiates the download process.
Alternative Flows	Alternative flow 1: Some books may have restrictions on the number of devices the user can download them to.
Pre-conditions	<ul style="list-style-type: none"> • The registered user must be logged in. • The user must have purchased or obtained the book legally.

Book Lovers	Version: 4.0
Use-Case Specification	Date: 22/Nov/23
<document identifier>	

Post-conditions	The selected book is successfully downloaded to the user's device.
-----------------	--

○