SOEN387 - Assignment #2
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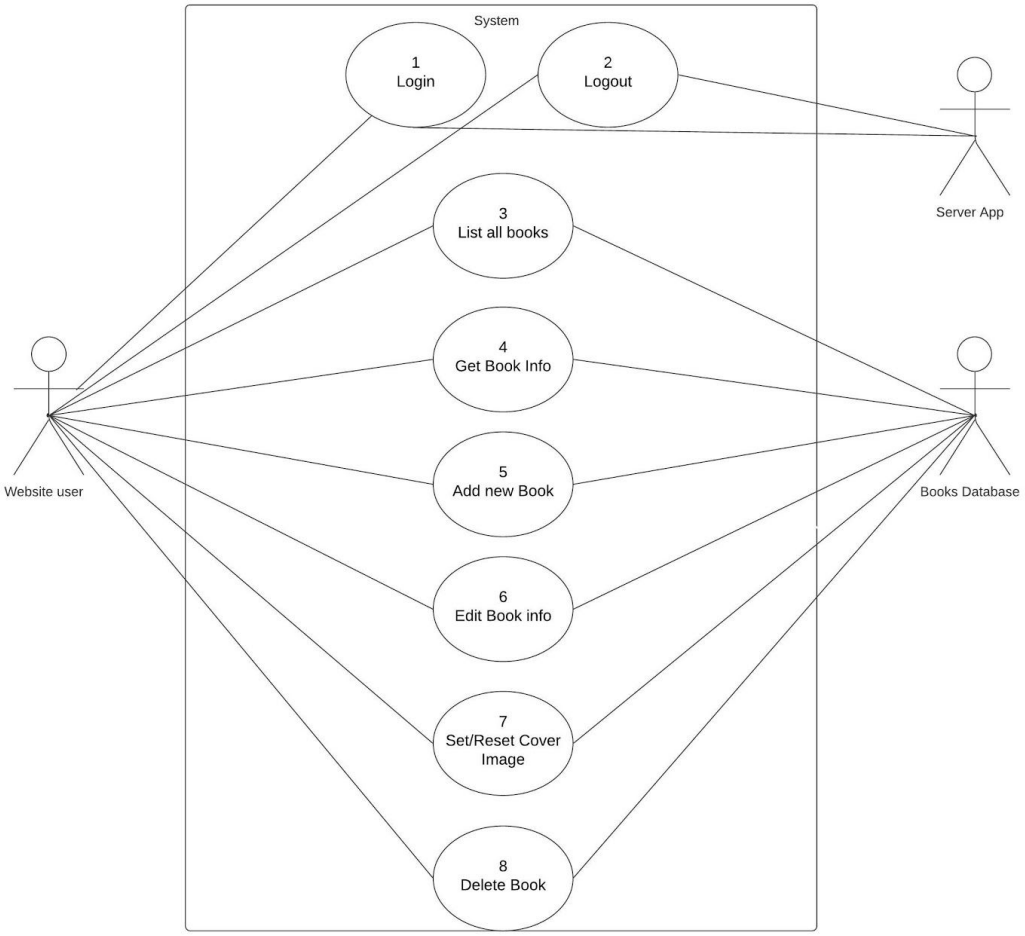
System Model

Use Case Diagram



Add Book Scenario

Use Case: Add Book Scenario
Summary: User adds a book to the repository
Preconditions: User must be logged-in
Postconditions: Returns book ID, book added to repository and redirects to new book
Primary Actor(s): User
Secondary Actor(s): Repository Database
Trigger: User clicks “Add Book” button
Outcome: Book successfully added to repository

Main Scenario:

1. User clicks “Add book” button
2. System redirects to addBook page
3. User enters book information
    - Title
    - ISBN
    - Author First Name
    - Author Last Name
    - Publisher Name
    - Publisher Address
    - Description
4. User optionally selects cover image to be uploaded
5. User clicks “Save” button
6. System checks if user is logged in
7. System prompts success message
8. System forwards request to Repository Database
9. System returns new Book ID
10. System redirects to ViewBook page with new book info

Alternate Flow:

1. User enters ISBN which already exists
2. System throws an exception
3. Book is not added to repository

Set Book Cover Scenario

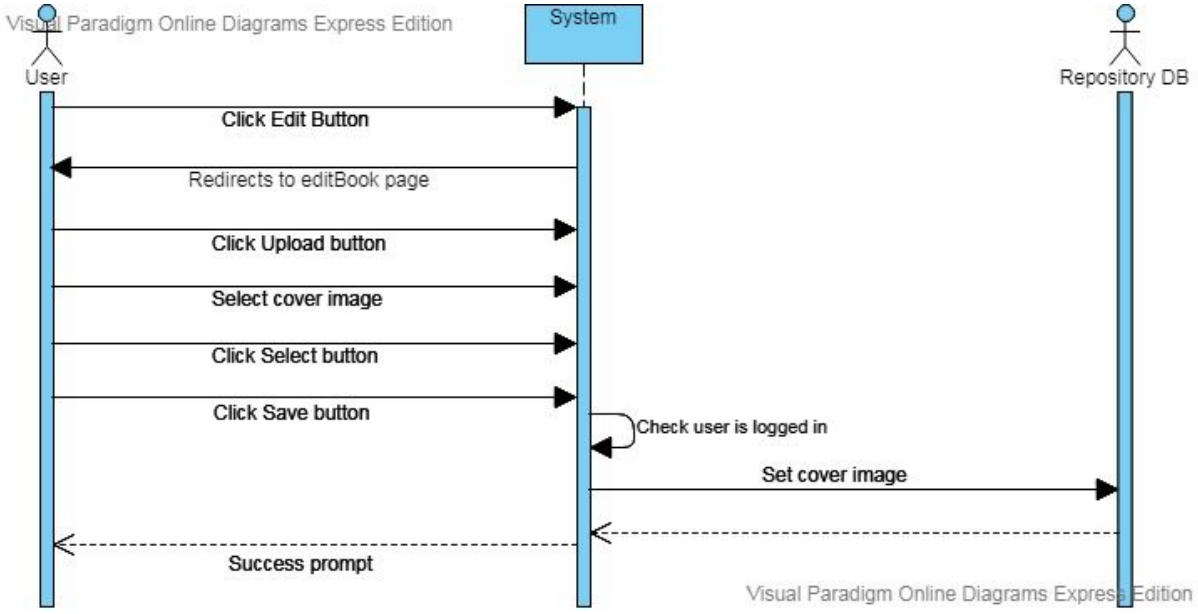
Use Case: Set Book Cover Scenario
Summary: User sets the cover image of a book in the repository
Preconditions: User must be logged-in, User must select book to be edited
Postconditions: Updates cover image
Primary Actor(s): User
Secondary Actor(s): Repository Database
Trigger: User clicks “Edit” button
Outcome: Cover image successfully set
Main Scenario:

- User clicks “Edit” button
- System redirects to editBook page
- User clicks the attachment upload button
- User selects a cover image to upload
- User clicks “Select” button
- User clicks “Save” button
- System checks if user is logged in
- System forwards request to Repository Database
- Server prompts success message

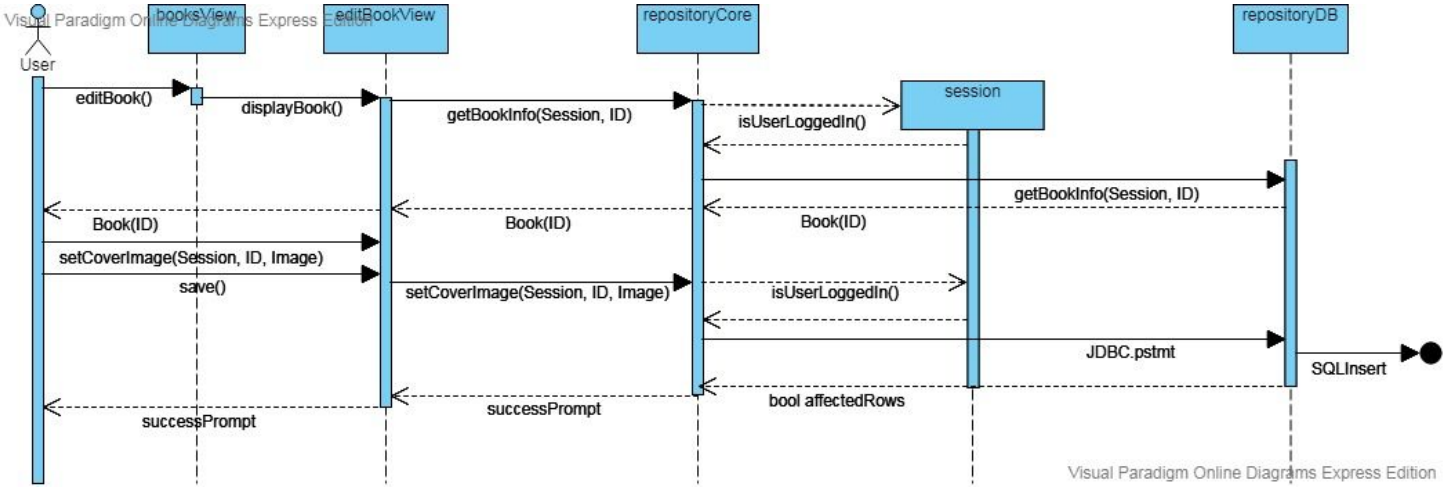
Alternate Flow:

- User clears previous image

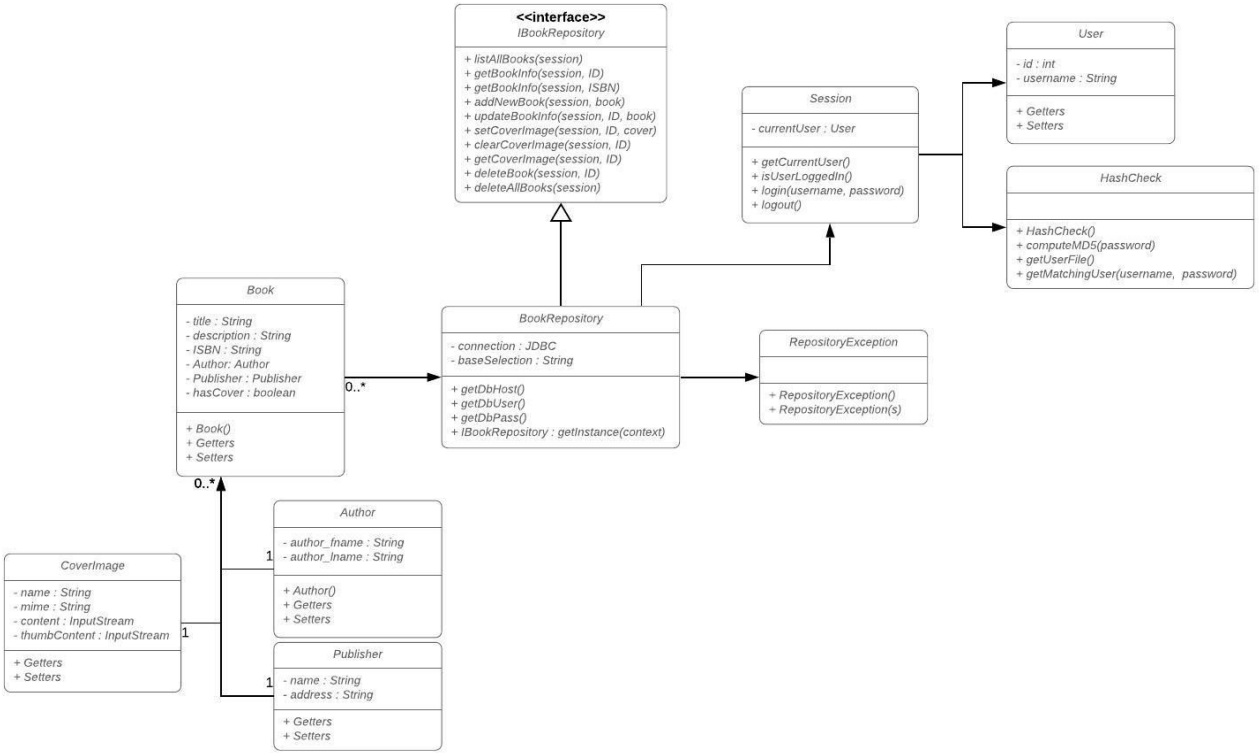
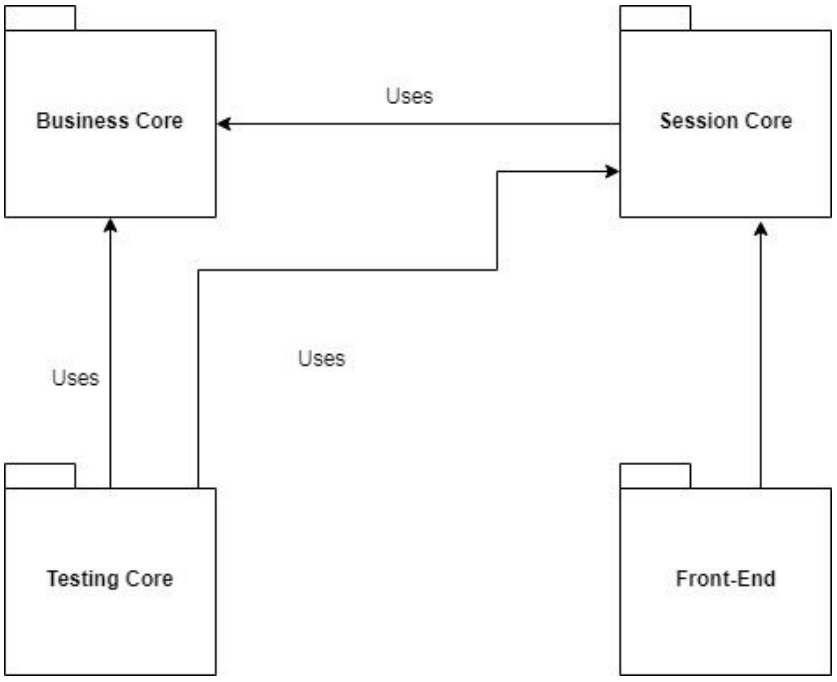
Set Book Cover SSD



Set Book Cover SD



System Class Diagram



Package Diagram