Bookflix is an online book borrowing system. In this system, a user can view a list of books that are available for borrowing. They have to search for the books by author or book name first. They can also read snippets before borrowing a book. The users can rate the books and also write reviews about the books they borrow. This system has two types of subscription service: monthly and yearly. There are two types of payment methods in this system: mobile banking and card. A user will be upgraded to a premium user, if he/she avails the yearly package. Premium users can view available slots to book for online sessions with the book authors. The authors will set the date and time of the online sessions. The user will receive notification about best-selling books that are av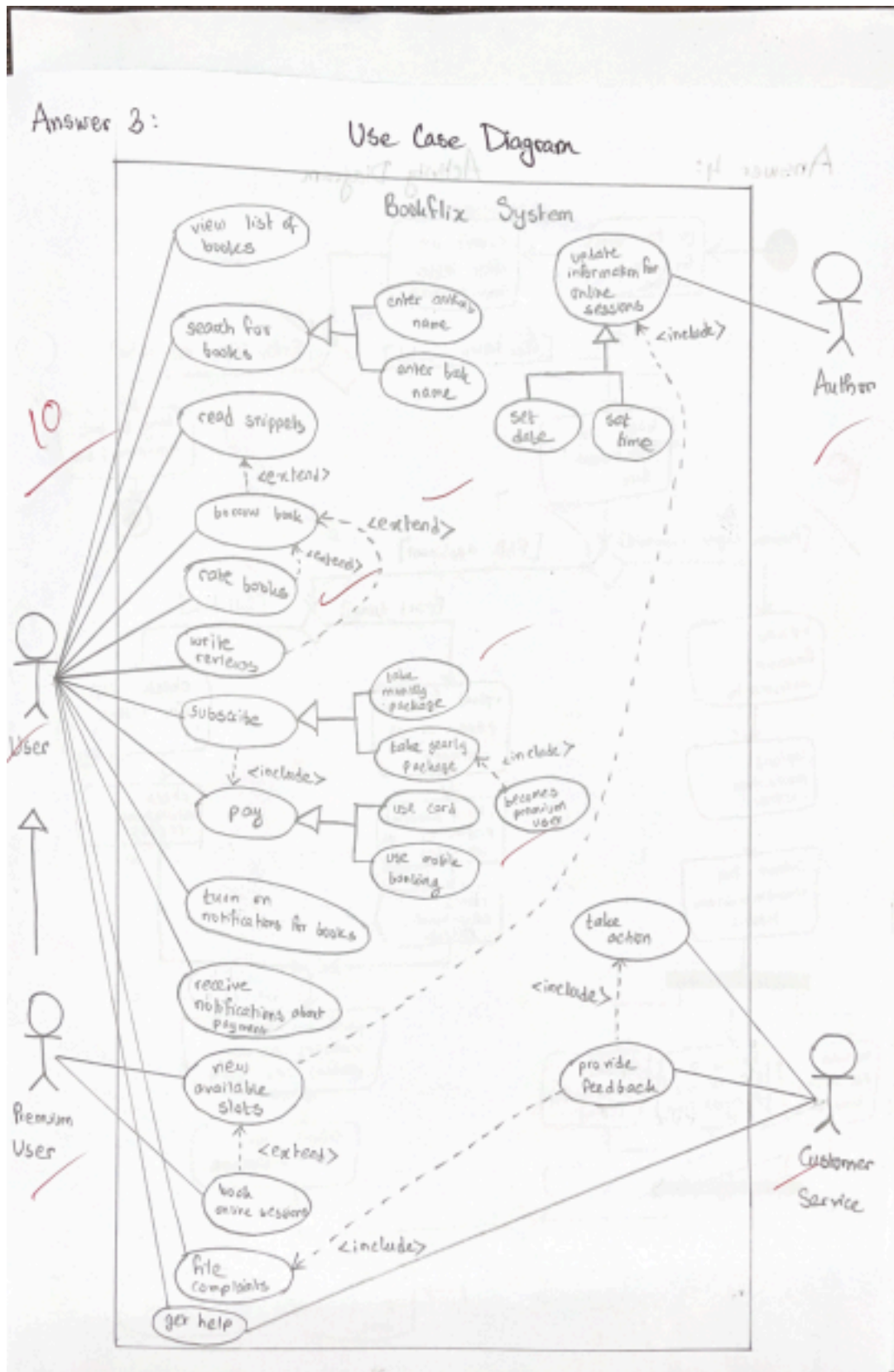ailable. Users can turn on notifications for their desired books to know their availability. They will also get a notification about the due payments. Customer service will be available for the users to get help and file complaints. The customer service will provide feedback and take necessary actions upon the complaints.

a. [8 marks] Design a use case diagram based on the above scenario.

(b) Use case Description   7

Use Case Name: Borrow A Book	ID: UC-1	Priority: High

Actor: User

Description: The user can borrow a book after viewing the book list or searching for a desired book. The book can be borrowed when it's available.

Trigger: User needs to borrow a book.
Type: ☑ External ☐ Temporal

Preconditions: 1. User is subscribed to the system
2. User is logged in
3. The available book database is uptodate and online

Normal Course: 1.0 User searches for desired book
1. User browses through search list for book availability
2. System displays book information including snippets
3. User selects the book to borrow
4. User receives confirmation.

Alternative Course: 1.1 User cancels borrowing request
.1 Use case terminated

Post Conditions: 1. Book database gets updated to show book is reserved
2. User has successfully borrowed the book.

Exception: E1 Desired book is not available
1. System notifies user
E2 User is not subscribed/has not renewed subscription
1. System redirects to payment
2. Use case terminated

Summary Inputs	Source	Outputs	Destination
Book name/ID	Book database	Validate Availability of book	Book list
Request for borrowing	Book database	Book borrowed	, Borrowing
User subscription information	User database	Validate subscription	Subscription