

Software Development Process

Team 12 follows the “Open” development process. This software engineering paradigm is effective for us because it allows us all to better ourselves as software engineers by witnessing the innovation and new strategies of our team members and applying them ourselves individually, while still maintaining the traditional team structure and hierarchy that we were all comfortable with before becoming a team.

List of User Stories

As a Librarian,

- I want to order/add books and DVDs from the publisher.
- I want to add links to scholarly papers, articles and journal publications.
- I want to add eBook files to the system.
- I want to be able to browse user’s information.
- I want to check whether a user is a registered user.
- I want to be able to check an item’s current status.

As a Clerk,

- I want to register a user in the database.
- I want to accept returned items and update their information in the system.
- I want to accept fine payments, and adjust the amount a User owes in the system accordingly.
- I want to be able to take a user off of the blacklist if a fine of \$50 or more was paid off.
- I want to check out items at the library.

As a Student or Faculty,

- I want to check which section of the library a certain item is located.
- I want to be able to reserve items ahead of time to be picked up from the library.
- I want to view links to scholarly papers, articles and journal publications.
- I want to borrow and view electronic books.
- I want to renew a book if there is nobody else waiting for it.
- I want to view the books I currently have out.
- Specifically for faculty, I want to restrict books to be library only, changing the due dates to be only two hours.

Table of User Stories

Librarian User Story	Will Be Implemented for...
I want to order/add books and DVDs from the publisher.	Already Implemented
I want to add links to scholarly papers, articles and journal publications.	Final Submission
I want to add eBook files to the system.	Final Submission
I want to be able to browse user's information.	Already Implemented
I want to check whether a user is a registered user.	Already Implemented
I want to be able to check an item's current status.	Already Implemented

Clerk User Story	Will Be Implemented for...
I want to register a user in the database.	Already Implemented
I want to accept returned items and update their information in the system.	Already Implemented
I want to accept fine payments, and adjust the amount a User owes in the system accordingly.	Already Implemented
I want to be able to take a user off of the blacklist if a fine of \$50 or more was paid off.	Already Implemented
I want to check out items at the library.	Already Implemented

Student/Faculty User Story	Will Be Implemented for...
I want to check which section of the library a certain item is located.	Already Implemented
I want to be able to reserve items ahead of time to be picked up from the library.	Already Implemented
I want to view links to scholarly papers, articles and journal publications.	Final Submission
I want to borrow and view electronic books.	Final Submission
I want to renew a book if there is nobody else waiting for it.	Already Implemented
I want to view the books I currently have out.	Already Implemented
Specifically for faculty, I want to restrict books to be library only, changing the due dates to be only two hours.	Final Submission

User Stories That Cannot Be Implemented

The following user stories could not be implemented because Team 12 does not have the knowledge nor the technical skills to add them to our Library Management Software at this time:

As a Librarian,

- I want to order books from a manufacturer directly.
- I want to be able to check the status of the library and its books from a remote location.

As a Clerk,

- I want to accept fine payments through a debit or credit machine.

As a Student or Faculty,

- I want to view the books I have signed out from a remote location.
- I want to reserve a book from a remote location.

- I want to change my password through email.
- I want to pay a fine online.

Software Testing

TEST	RESULT
Login attempt with correct credentials	User is logged in, and shown the correct screen for their user type.
Login attempt with incorrect credentials	User is not logged in, and an error message is shown.
Login attempt with no credentials	
Add a user with all fields filled in correctly	The appropriate string is generated, and stored in the user database.
Add a user with one or more fields empty	The information is rejected, no user is added, and an error message is shown.
Add a user with an ID that is already in use	
Add a user with an email that is already in use	
Add a user with an “*” character in any field	
Add a resource with all fields filled in correctly	The appropriate string is generated, and stored in the resource database.

Add a resource with one or more fields empty	The information is rejected, no resource is added, and an error message is shown.
Add a resource with an ID that is already in use	
Add a resource with an “*” character in any field	
Checkout a book that is available, and is not reserved.	The book is signed out to the user, its ID and due date is added to the user entry in the user database, the book is set to unavailable, and the user’s ID is added to the book entry in the resource database.
Checkout a book that is unavailable	The book and user are not modified, and an error message is shown.
Checkout a book that is restricted	
Checkout a book that is available, but has a different user reserving it	
Checkout a book that you have already checked out	