

# EECS 2311 SecZ Winter 2024 Team 3

## Project Proposal

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# Change Log & Justification

*There are no changes between iteration 0/1 and iteration 2 in terms of user stories and planning other than helping each other and restructuring the group due to a course member dropping (Dexter Sargent) as of Delivery 1 Submission*

*After Delivery 1 Submission, 2 stories were pushed forward to Iteration 3 and substituted with two more appropriate stories.*

*The stories that were pushed further ahead were recommendation features. We felt that some other features should first be created and fully functional before recommendation features were implemented. The features to implement first were users indicating which comic books they are in the progress of reading and which comic books they have finished reading. This will ensure recommendations are based on more diverse user data and as well the timeline of ITR2 fit this better. As well, certain requirements within the ITR2 rubric meant that other development tasks needed some attention, such as a common interface for stub and postgresql data. So for these reasons these changes were made.*

## Recap of Big User Stories For Full Project:

<b>User Login &amp; Registration</b>
LongBox users must register for and login to the system to access it and use its features.

<b>User Profile &amp; Home Dashboard</b>
LongBox users can view their personal profile along with a home dashboard that serves as a portal for the major.

<b>Users Can Browse &amp; Contribute to the Comic Book Catalog</b>
LongBox users can search the comic book repository of the system, browse the full collection and contribute more items to the collection.

### **Users Can Build a Personal Comic Book Collection**

LongBox users can select individual comic books to put into their own personal collections and remove them if they no longer want to keep them.

### **Users Can Read and Write Comments About Individual Comic Books**

LongBox users can view a comments section associated with all comic books and write new comments. These comments are stamped by username and time.

### **Users Receive Recommendations About Trending & Relevant Comic Books**

LongBox users are given trending and recommended comic books upon entry to the system and can navigate back to this page for further recommendations

## Detailed User Stories For Iteration 2

<b>Users can Write Comments - Ahan</b>	
<b>Associated Big User Story: Users Can Read and Write Comments About Individual Comic Books</b>	
<b>Description:</b> Users can share their thoughts by writing comments about a comic. Once the user adds a comment they should be able to see the comment in the comment list.	
Priority: High	Cost: 3 Actual: 2

<b>Users can View Comments - Ahan</b>	
<b>Associated Big User Story: Users Can Read and Write Comments About Individual Comic Books</b>	
<b>Description:</b> Users can view all the comments on a comic book. The comments that are viewed are in order from newest to oldest. The user should also be able to view the name of the user who commented on the feature along with when the comment was added.	
Priority: Medium	Cost: 3 Actual: 3

<b>The email used by users should be unique - Ahan</b>	
<b>Associated Big User Story: Users Login &amp; Registration</b>	
<b>Description:</b> Each user should have a unique email along with username when registering for the system.	
Priority: Low	Cost: 1 Actual: 1

<b>User can Search for Comic by Title, Genre, Publisher, and Year - Eric</b>	
<b>Associated Big User Story: Users Can Browse &amp; Contribute to the Comic Book Catalog</b>	
<b>Description:</b> User can search and filter results based on title, genre, publisher, and year. User will be presented with a new small frame displaying all the results according to the desired search entry	
Priority: High	Cost: 3 Actual: 5

<b>User Can Navigate on a Comic Book Page by Clicking its Title if it Exists in a Results Table and Comic Collection - Eric</b>
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<b>Associated Big User Story: Users Can Browse &amp; Contribute to the Comic Book Catalog</b>
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<b>Description:</b> In the comic collection and results window. A User can navigate to a comic page by clicking on the title of said comic. If it is from the search results page, then it will dispose of the results window after opening the comic page
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Priority: Medium
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Cost: 2 Actual: 2
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<b>Users Can Sort A Comic Table Based on Every Attribute that a Comic Has - Eric</b>
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<b>Associated Big User Story: Users Can Browse &amp; Contribute to the Comic Book Catalog</b>
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<b>Description:</b> In the comic collection tab, a user can sort the entire table based on title, author, artist, publisher, issue count, and year. These will all be based off of an alphabetical ordering
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Priority: Low
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Cost: 2 Actual: 4
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## **Users Can Add/Remove Comic Books To/From A List Of Finished Comic Books: Hashir**

### **Associated Big User Story: Users Can Build a Personal Comic Book Collection**

**Description:** In the user profile view the logged in user should be able to view a list of comic books they have finished reading. This list is built by them and they indicate what items they have finished individually. The additions to this list are done when viewing a comic book. The data built and stored here will serve as a source for data that the user recommendations are based off of. Items can also be removed from this list

Priority: High

Cost: 4 Actual: 4

## **Users Can Add/Remove Comic Books To/From A List Of Reading In Progress Comic Books: Hashir**

### **Associated Big User Story: Users Can Build a Personal Comic Book Collection**

**Description:** Similar to the previous story, a user can add comic books to a list they build themselves of comic books they are currently reading. This list can be edited by the user at any time and is viewable in the profile page. This will also serve as data for user recommendations.

Priority: Medium

Cost: 4 Actual: 4



<b>Users Can Login Using Email Address and Password - Eric</b>	
<b>Associated Big User Story: User Login and Registration</b>	
<b>Description:</b> Users at the login page can log in both with a matching email address and password or username and password; usernames at registration will no longer access the char '@'	
Priority: Low	Cost: 2 Actual: 1

<b>User can edit and save “about me” text box in profile page - Oscar</b>	
<b>Associated Big User Story: User Profile &amp; Home Dashboard</b>	
<b>Description:</b> In the profile page, users can type and edit the text in the “about me” text box to describe themselves. Will have an edit, save, and cancel button that the user can click in order to be able to change the text, save it, or cancel any changes.	
Priority: Medium	Cost: 2 Actual: 2

**When adding a comic book to the repository a user can directly favorite it at the same time - Ali**

**Associated Big User Story: User Has A Comic Book Collection**

**Description:** In the 'Add Comic' page, users can mark a comic as favorite by selecting the 'Is Favorite' checkbox. This action adds the comic to a merged table in the database, linking user and comic entities, and displays it in the 'Favorites' tab of the GUI panel.

Priority: Medium

Cost: 3 Actual: 3

**Users can remove a comic book from favorites - Ali**

**Associated Big User Story: User Has A Comic Book Collection**

**Description:** In the 'Favorites' tab, users can deselect a comic as a favorite by selecting it and clicking the 'Unfavorite' button. This removes the comic from the merged database table linking user and comic entities.

Priority: Medium

Cost: 3 Actual: 3

# General Development Tasks:

Eric:

- ☒ Refresh database/JTable of comic repository after adding a new comic entry
- ☒ Add advanced searching to favorites; refactor advanced searching logic into separate class outside of comic repository and favorites GUI panels
- ☒ Horizontal scrolling for table lists.
- ☒ When creating an account, the username cannot be blank or contain the char '@'
- ☒ Clicking comics in Reading and Read tables can navigate to comic book page

Hashir:

- ☒ General refactoring
- ☒ Adding database cardinality relationships between tables and adding new tables.
- ☒ Adding further integration tests for database interface.
- ☒ Adding unit tests for add comic books to reading in progress lists and add comic books to finished list
- ☒ Implementation of database methods for add comic to reading/finished lists
- ☒ Implementation of database methods for retrieve comic books from the above mentioned lists
- ☒ Integration tests for these two lists

Ahan:

- ☒ Refactor the ComicBookInfoPanel.
- ☒ Implement add comment feature.
- ☒ Implement view comment feature.
- ☒ Fix code not working due to cardinality changes.
- ☒ Refactor profile page.
- ☒ Refactor tests into unit and integration.
- ☒ Helped fix errors when favoriting a comic.
- ☒ Update readme.

Oscar:

- ☒ Create a user editable "about me" text box
- ☒ Create edit, save, and cancel buttons
- ☒ Change default font to Calibri
- ☒ Change genres to be arrays in ComicBookStubDb.json file
- ☒ Write test case for updating aboutMe in database

Ali:

- ☒ Refactor FavoritesPanel
- ☒ Implement adding a comic book to the repository a user can directly favorite it at the same time

- ☒ Set up the database to store favorites comics
- ☒ Implement Unfavorite Feature
- ☒ Implement adding a comic book to favorites from Comic Repository GUI panel
- ☐ Researching methods to enhance the visual appearance of the GUI
- ☐ Write test cases

# Table of Features

Feature	Related Big User Story	Iteration of Completion
Login and Registration	User Login and Registration	1
View all comics in the repository	User Profile & Home Dashboard	1
Searching / Advanced Searching, Viewing Comic Information	Users Can Browse & Contribute to the Comic Book Catalog	2
Add a comic to collection	Users Can Browse & Contribute to the Comic Book Catalog	1
View Comments	Users can read and write comments about comic books	2
Add Comments	Users can read and write comments about comic books	2
Favorite a comic	Users Can Build a Personal Comic Book Collection	2
Unfavorite a comic	Users Can Build a Personal Comic Book Collection	2
Mark a comic as reading view its list	User profile & home dashboard	2
Mark a comic as finished reading and its list	User profile & home dashboard	2
About Me section	User Profile & Home Dashboard	2

## Revised Stories: Pushed to ITR3

As mentioned in the changelog at the start these two stories were pushed to the next iteration as other features can be developed before these to enhance them and there were several other development tasks required written above

<del><b>Upon login users are recommended comic books to browse – Hashir</b></del>	
<del><b>Associated Big User Story: Users Receive Recommendations About Trending &amp; Relevant Comic Books</b></del>	
<del><b>Description:</b> As a user begins to favorite comic books and comment on comic books, the system will use this information to recommend comic books to users. The recommendations are shown on the landing page that is redirected to upon login. The predictions are a best effort and are not guaranteed to be fully relevant to every user.</del>	
<del><b>Priority: High</b></del>	<del><b>Cost: Expected: 5</b></del>

<del><b>Users can view a list of trending comic books – Hashir</b></del>	
<del><b>Associated Big User Story: Users Receive Recommendations About Trending &amp; Relevant Comic Books</b></del>	
<del><b>Description:</b> The users of LongBox have an option to view a page of trending comics that have had active comment threads (&gt;10 comments in the last 14 days), a high number of users favoriting them (&gt;10 users) and many users reading/finishing them (&gt;10 users having read/finished them).</del>	
<del><b>Priority: Low</b></del>	<del><b>Cost: Expected: 5</b></del>

## Development Tasks Assigned In Iteration 1

<b>Users Can Register For LongBox - Ahan</b>	
<b>Associated Big User Story: Users Login &amp; Registration</b>	
<b>Description:</b> Before using LongBox users must provide basic personal information such as date of birth, full name, email address and country of residence. Furthermore, users must provide a unique username that has not been used by any other member of the system before and must also provide a strong password. If the criteria are not met the user is not permitted to register	
Priority: High	Cost: Expected: 3 Actual: 5

<b>Users With A Registered Account Can Login To LongBox - Ahan</b>	
<b>Associated Big User Story: Users Login &amp; Registration</b>	
<b>Description:</b> After successfully creating an account or already having an account, a user will be required to enter a username and password to enter into the application with a user session if the login information matches with an existing account.	
Priority: High	Cost: Expected: 3 Actual: 5

<b>Once Logged In, Users Remain Signed into the Application and Maintain This State - Ahan</b>	
<b>Associated Big User Story: Users Login &amp; Registration</b>	
<b>Description:</b> After a successful login, a new user session will be created for said user. This session will remain active for the duration of the users stay and tailor the profile, comic collection, and recommended pages to the users requirements.	
Priority: Medium	Cost: Expected: 1 Actual: 1

<b>Once Logged In, Users Can Choose To Logout At Any Time - Ahan</b>	
<b>Associated Big User Story: User Profile &amp; Home Dashboard</b>	
<b>Description:</b> Once logged in, the user will be able to logout via the ‘logout’ button on the top right of the menu bar. This will terminate the user session (log them out) and redirect the user back to the login page.	
Priority: High	Cost: Expected: 1 Actual: 1

<b>Users Have Access To A Menu Of Links To All Aspects of the Home Dashboard/Profile - Hashir</b>	
<b>Associated Big User Story: User Profile &amp; Home Dashboard</b>	
<b>Description:</b> After a successful login, the menu bar will become visible with all the available tabs (Comic Collection, Search, Add Comic, Profile, and Log Out). The user can select any of these and navigate to them, while the menu bar still remains present.	
Priority: Low	Cost: Expected: 2 Actual: 2

<b>Users Can View Their Personal Profile Information - Hashir</b>	
<b>Associated Big User Story: User Profile &amp; Home Dashboard</b>	
<b>Description:</b> After a successful login, the users can view their profile details in text form with one click to get to the user profile screen. This screen is read only and must be synchronized at all times with the user that is logged in and no others. The only field not visible is the password.	
Priority: Medium	Cost: Expected: 2 Actual: 2



## **Users Can Browse The Full Catalog of Comic Books In The System's Repository - Eric & Hashir**

### **Associated Big User Story: Users Can Browse & Contribute to the Comic Book Catalog**

**Description:** A user should have a one click option to view the full list of comic books in the system's catalog in tabular form by the individual fields that a comic book is described by. The User can choose to sort these items by columns.

Priority: Medium

Cost: Expected: 3 Actual: 7

## **Users Can Add A Comic Book To The System Repository - Ali & Hashir**

### **Associated Big User Story: Users Can Browse & Contribute to the Comic Book Catalog**

**Description:** Users can fill out a form to add a comic book to the system repository by giving all information they know about it. The form is not strict and is lenient on empty fields as users may not have all information available to them and the purpose is to slowly build the catalog based on users best effort and knowledge about the comic books.

Priority: High

Cost: Expected: 3, Actual: 1

<b>Users Can Search For Individual Comic Books By Series Title - Hashir</b>	
<b>Associated Big User Story: Users Can Browse &amp; Contribute to the Comic Book Catalog</b>	
<b>Description:</b> In the search tab of the menu bar, the user will be able to enter the title of a comic series and the system shall return the result, if it exists. If the result does not exist the user will be prompted that there is no such item. If the result does exist then the user will be guided to a page showing the basic details of the comic book.	
Priority: Medium	Cost: Expected: 2 Actual: 2