

Library Information System Assignment

The Web Dev Disaster

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Requirements Review

Please complete the following tables indicating which of the mandatory requirements you have completed. In cases where there is an issue or you interpreted the requirement in a specific way, please use the comment field to clarify the issue / your interpretation. In the status column indicate whether each requirement was: COMPLETED (you did it), NOT STARTED (you didn't do it), PARTIAL (you did part of it).

Member Requirements Progress

Req. #	Title	Comment	Status
M0	Member Login		COMPLETED
M1	View List of Loans	Relevant details to members are shown: artifact name, type, loan date, due date...	COMPLETED
M2	Renew Loans	Once current loaner has renewed item, reserved is set to true (cannot be reserved until renewal date passes).	COMPLETED
M3	Reserve Available Artifacts	We took this to mean loan out available item (not loaned + not reserved = can be loaned out now). User is told if artifact is available.	COMPLETED
M4	Reserve On-Loan Artifacts	If item is out on loan + not reserved, it can be reserved -through same button as reserve available artifacts.	COMPLETED
M5	View Loan History	Past loans are also displayed when viewing member loans.	PARTIAL
M6	Search for Artifacts	Search by id, name, type	COMPLETED
M7	Update Profile		NOT STARTED

Librarian Requirements Progress

Req. #	Title	Comment	Status
L0	Librarian Login		COMPLETED
L1	Add / Remove Artifacts	Can add items with name/type. Can remove items by id.	COMPLETED
L2	Search for Members		NOT STARTED
L3	View Members Current Loans	Relevant details only are displayed (artifact id, date loaned, due date, artifact name/type). Current member loans viewable.	COMPLETED
L4	View Members Past Loans	Past loans also shown when viewing member loans.	PARTIAL
L5	Renew Loans	If member has loaned out item and it hasn't been reserved by someone else, it can be renewed for the same member.	COMPLETED
L6	Reserve Artifacts		NOT STARTED
L7	Record Loaned Artifacts		COMPLETED
L8	Record Returned Artifacts		COMPLETED
L9	Search for Artifacts	Search by id, type and name.	COMPLETED
L10	Edit Member Profiles		NOT STARTED

General Requirements Progress

Req. #	Title	Comment	Status
G0	Search for Artifacts	Search by id, type, name	COMPLETED
G1	Join Library	Guest enters username, password to sign up. Must login again afterwards.	COMPLETED

Additional Requirements

Describe any additional requirements you have completed above and beyond the spec of the project. Use as much space as you require to do this.

- We made colorful backgrounds and implemented HTML to decorate all of the pages. The backgrounds and pages scale to the window size and the images/logo contribute to the overall appearance of the system. All elements of the pages stand out and make the website more accessible (colored buttons, press logo to return to login page...)
- Artifact search can be done in several different ways: by id, type or name. This helps members and guests find the items they want even if they don't have all the details.
- Each user's current loans are kept track of. If a member tries to reserve an item they've already borrowed/reserved, the system lets them know. The return messages more than just a copy-past error screen: they're informative and descriptive and tell the member exactly what the issue is.

Summarise these requirements using the requirements table below.

Req. #	Title	Comment	Status
A0	HTML, CSS design		COMPLETED
A1	User-friendly UI		COMPLETED

Reflections

Please summarise your experiences on the project: what did you learn; what challenges did you have to overcome; what would you have done differently if you could have started over.

DO NOT WRITE MORE THAN ONE PAGE

What we learned:

- Through this project we became more familiar with the skills needed to develop a website. We improved our ability to code in a variety of languages like HTML, CSS, Java and SQL. We also learned to use new applications, software and frameworks to implement websites (Docker, Maven, Spring...)
- Our team skills were developed as part of this project. We learned more about the importance of soft skills like communication, organization planning. This experience will be very useful in future when we go on to work in other team projects.

What challenges did you overcome:

- Designing the website was a challenge. We had to plan from the very beginning how our development was going to work out: what webpages connect to each other, the features to be implemented on each page and how to balance our time between design and functionality.
- We also faced technical issues during the project. We encountered errors and hurdles almost every step of the way, from implementing the index page to more advanced functionality later on. Dealing with these challenges allowed us to keep going and become better at web development.

What would you have done differently:

- Putting more time into the design sections of our project may have saved us time when it came to implementing the library. Planning items like a detailed webpage template for each page and descriptions on how to do certain methods would have helped the overall workflow and maybe saved us time in the long run.
- More opportunities for the team to meet and throw ideas around. More team meetings and scrums could have helped get past programming block, when we hit a wall in the project. Tools like Trello, Discord and Messenger were useful for teamwork but overall we felt that meeting and coding together was when we made the most progress as a team.