**Library Information System Assignment**

Powerpuff Girls

Seán McLoughlin

10360547

Tanmay Joshi  
17204430

Svetoslav Nizhnichnkov  
17712081

Team Member 4  
Student # 4

**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 |  | COMPLETED |
| M2 | Renew Loans |  | COMPLETED |
| M3 | Reserve Available Artifacts | We considered an item to be available for reservation if it was on loan and no other member had reserved it. So more of an extension of M4. | COMPLETED |
| M4 | Reserve On Loan Artifacts |  | COMPLETED |
| M5 | View Loan History |  | COMPLETED |
| M6 | Search for Artifacts |  | COMPLETED |
| M7 | Update Profile |  | COMPLETED |

**Librarian Requirements Progress**

|  |  |  |  |
| --- | --- | --- | --- |
| Req. # | Title | Comment | Status |
| L0 | Librarian Login |  | COMPLETED |
| L1 | Add / Remove Artifacts |  | COMPLETED |
| L2 | Search for Members |  | COMPLETED |
| L3 | View Members Current Loans |  | COMPLETED |
| L4 | View Members Past Loans |  | COMPLETED |
| L5 | Renew Loans |  | COMPLETED |
| L6 | Reserve Artifacts |  | COMPLETED |
| L7 | Record Loaned Artifacts |  | COMPLETED |
| L8 | Record Returned Artifacts |  | COMPLETED |
| L9 | Search for Artifacts |  | COMPLETED |
| L10 | Edit Member Profiles |  | COMPLETED |

**General Requirements Progress**

|  |  |  |  |
| --- | --- | --- | --- |
| Req. # | Title | Comment | Status |
| G0 | Search for Artifacts |  | COMPLETED |
| G1 | Join Library |  | 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 used an integer variable to record the number of times an artifact was loaned, and used this to create a list of the most popular loans in the library. This is viewable in the home page, with the option to loan/reserve if the user is logged in.

Summarise these requirements using the requirements table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Req. # | Title | Comment | Status |
| A0 | **Show popular artifacts** | Viewable on the home page. | COMPLETED |
| A1 | <insert a title> |  |  |

**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**

Challenges overcome

- Figured out how to perform more complicated JPA queries.

- Passing a member’s account details for a librarian to manipulate took a lot of tweaking for us.

- It took some time to implement dates(loaned/returned etc.) as they had to be converted to Calendar objects and then back to dates.

What did you learn

**Seán:**

I felt I got a lot out of deploying with Maven and Docker. I’m using Maven for another Java project now for the ease of use. I had no prior HTML/CSS experience but I feel that I have a good base to work from now. I enjoyed seeing how the front and backend communicated with each other, and how to keep/obscure information on the page.

**Tanmay:** I learnt a lot about the back end in web development. I had basic experience with HTML/CSS but I had never worked properly on a fully functional website. I learnt how to deploy web apps using maven, docker and mysql. I learnt how various components can be controlled and connected using controllers.

What we would do differently if we could start over

It would have probably been easier had we planned our design out more before starting to work on it. In the beginning we were anxious to just get going and have the site operational on a basic level, but a better built foundation would have meant that there would have been less revision for us to deal with to implement all the requirements. We did prototype and agree on a general design, but we would work out a more understandable wireframe next time, to avoid confusion between members.

**Seán:**

I would like to figure out how to hash passwords instead of storing plaintext, and spend time getting up to speed on @Jquery to make more complicated functionality possible. I’d also create more front end error messages for clearer navigation.

**Tanmay:** I would say i’d like to spend more time on the front end, as we have a fully functional website but in terms of user experience, the front end could use a bit of work.