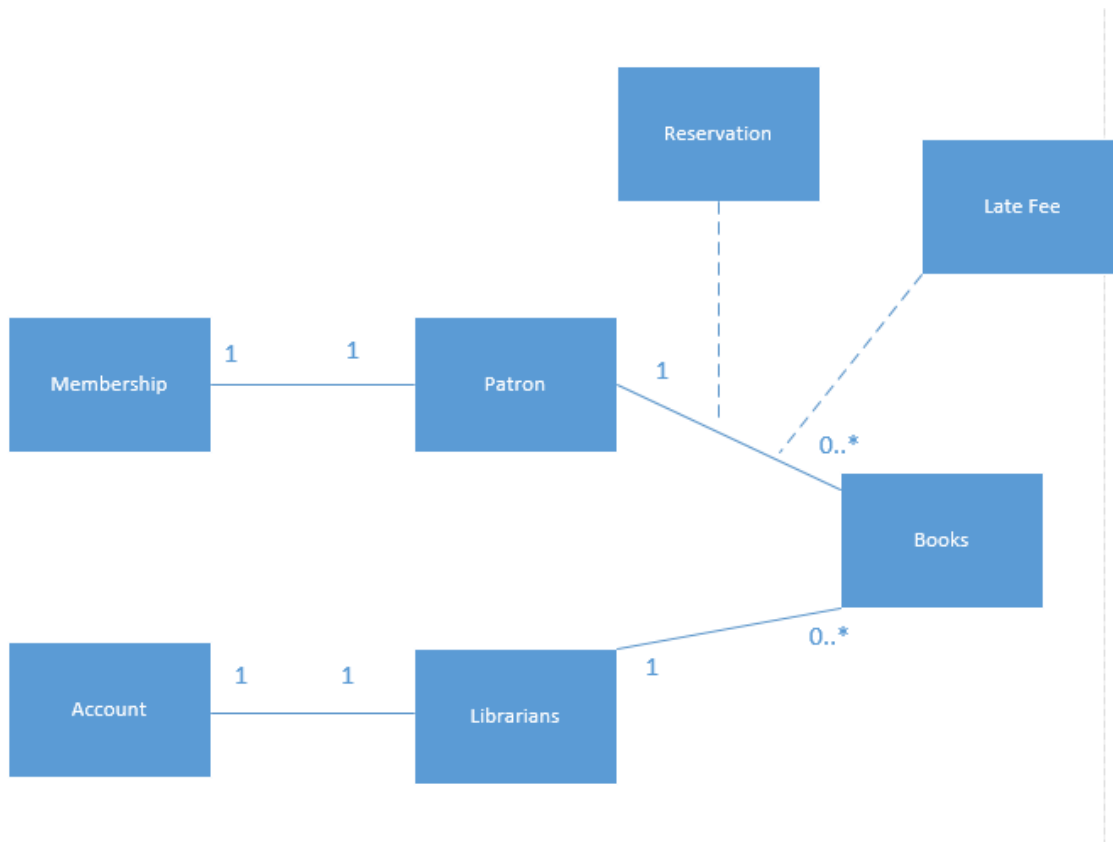


Business Domain Model



Risk assessment

What keeps us up at night?

1. No co-working location with team
2. Difficulty/delays reaching customer
3. Having more analysts than developers (e.g. 5 analysts, 1 dev)
4. Betting the farm on software we have no prior experience in
5. Team not being able to devote the necessary time to the project (to meet deadline)
6. Users cannot checkout books themselves (i.e. self-checkout)

Size: 3 month project

High level business requirements:

This project has been created to save money for the library in the long run and create a better experience for patrons. We strive to make the best system possible to allow patrons of the library to search the inventory of the library with little to no training.

The system must be available 24 hours a day/ 7 days a week (with a maintenance window of 1 hour every Saturday). Librarians will be able to add new patrons and check-in and check-out books for patrons. They can also add and modify materials within the system. Patron history is also available for the librarians. The patrons can access their

check-in and check-out history in the system. Certain information such as the library's book information and contact information is open to the public.

We aim to implement an integrated system that is user-friendly for librarians, patrons and the public. The interface will be simple and intuitive. Users can easily expect what to happen next using the system. Our product can be scaled according to different computer screen sizes. Maintenance costs for our product will also be controllable within a relatively low range for the library.

Cost details:

Estimates formatted in green:

\$100,000 for development costs in 2014

\$30,000 for annual operating costs for 2015 and 2016

\$120,000 for annual benefits for 2015 and 2016

Educated estimates formatted in black on Excel Sheet:

Simple Cost/Benefit analysis (include intangible benefits)

Tangible benefits: (See '*Cost Benefit Analysis*' Sheets file)

Future intangible benefits will include higher quality of customer service from librarians, who will benefit from the use of highly efficient new library system. User experience for patrons to access library resources on the internet will also improve. Enhanced user experience for both librarians and patrons will bring the library a better reputation.

Is this project feasible? Should it be continued?

Yes. We believe our team have the ability to integrate multiple features asked by our customer. Based on the user stories sent from the customer, we will focus on those with high priorities. Having laid out the time estimation for each user story, we strongly believe that we will be able to finish implementing all features into the new system within planned time. Economically speaking, we also expect to finish working on the product within budgeted costs. This project will be the only project our team have for the next 2 months. With limited resources for a startup company, organizational feasibility is assured for the time being.

Functional and Nonfunctional Requirements: 4

i. Identify and write all of the necessary User Stories for the functional and nonfunctional requirements of the system:

(See 'User Stories' sheets file)

Use Case diagram for the project:

