Software Design and Development

Preliminary Report

Team:

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After further meeting and consideration, our team has come to the conclusion that the majority of the initially established directives are going to be implemented within the finished product, as they line up directly with the needs of the Clarkson Open Source Instutute. The intended feature list can be broken into a series of use cases, as will be demonstrated below.

The first portion of the project consists of a library management system, described by the following use cases:

- As a library maintainer, I want a database of every book currently owned by the COSI library.
- As a library maintainer, I want to be able to restrict certain books from being checked out by students
- As a library maintainer, I want to be able to keep tabs on who has what book, and for how long.
- As a user of the library, I want to be capable of checking out books without needing to notify the library maintainer
- As a user of the library, I want to be able into check out books without requiring any non-standard identification upon loan
- As a user of the library, I want to be able to check out books conveniently, without having to type in book information each time I wish to check out.
- As a user of the library, I want like to have a web interface for keeping track of which books I currently have on loan, and which books are available for loan.

- As a user of the library, I want this web interface to provide information on the books available to me.

Additionally, while not considered a requirement for completion of the project, there are several use cases whose implementation are desirable for the labs' frequent members:

- As a member of the Clarkson Open Source Institute, I want to be able to access a web service to view any recorded meetings I may have missed.
- As a member of the Clarkson Open Source Institute, I want to be able to view any transcripts/meeting minutes that have been written on the same page as the video.
- As the secretary of the Clarkson Open Source Institute, I want to have a means of uploading video recordings of the meetings, and submit accompanying transcripts/meeting minutes.
- As the secretary of the Clarkson Open Source Institute, I want to upload chat logs/email threads that are viewable/searchable by members of the labs.
- As the secretary of the Clarkson Open Source Institute, I want to be able to edit this information with a plain text editor, without needing to learn non-standard version control systems.

We are also considering the idea of using the Wiki to provide a couple of other services, but details of this have not yet been worked out.

The workload for our group is going to be divided as follows:
Adam Kimball:
-Writing and refining the web front-end for users to access

Corey Richardson:
-Construction and implementation of the scanning machine for users to manage book check-in/check-out

Alex Macri:

    -Creation and initial maintainence of the book database, and implementing an easy way for library maintainers to make changes to the database.