Ruby on Rails Project Proposal

COSC 4397/6397- Special Topics in Software Engineering

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Table of Contents

[1. Introduction: 2](#_Toc295778421)

[2. Functions of Modules within the system: 2](#_Toc295778422)

[2.1: Login Module: 2](#_Toc295778423)

[2.2: Member Module: 2](#_Toc295778424)

[2.3: Librarian Module: 2](#_Toc295778425)

[2.4: Administrator Module: 3](#_Toc295778426)

# 1. Introduction:

We are planning to prepare a library system through which it would be possible to support most of the operations performed in today’s library. Items this system will be supporting include books, CDs, and journals.

# 2. Functions of Modules within the system:

## 2.1: Login Module:

We will be providing a secure login for the members as well staff of the library. We have identified three roles within the library system. These are:

* Member: The members of the library are the ones who can check in check out items.
* Librarian: A librarian provides the sign-off for each check in and check out of items. Librarian is also responsible for adding of books to the catalogue and reporting missing of items.
* Administrator: An Administrator is responsible for creating accounts for new members and librarians as well as maintaining these accounts.

Every user will be given a username and password with which one can login to the system and can perform further transactions.

## 2.2: Member Module:

Member of the library can perform following operations:

* Update profile
* Reserve/cancel an item
* Search for a item

Separate forms shall be constructed to facilitate the above operations.

## 2.3: Librarian Module:

Librarian needs to perform following operations:

* Add a new item to the catalogue
* Check in/out of items
* Report loss of item

Separate forms shall be constructed to facilitate the above operations.

## 2.4: Administrator Module:

An Administrator has to perform following operations:

* Add new members/librarian for the system
* Provide for loss of password
* Deleting of a member/librarian profile

Separate forms shall be constructed to facilitate the above operations.

These are very basic functionalities that we will definitely supporting. We may add a few based on requirement and/or convenience.