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| **CSC380: Software Engineering** |
| **Library Reservation System** |
| Homework 1: This document summarizes the project description, system requirements with priorities, and user stories for the system requirements with size estimates. Team members: Joshua Reiss Alex Lawrence |

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# Breakdown of Contributions

All team members contributed equally for this report.

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# Glossary of Terms

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| Administrator | A user which has privileges to customize, alter and update allfacets of the library system. |
| Stock File |  |
| Handler File |  |
| Account File |  |
| View Stock |  |
| Sign-in |  |
| Client Tab |  |
| Admin Tab |  |
| GUI |  |
| Database | A storage device used to store the library system data. |
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# Customer Requirement Statement

# System Requirements

**Functional Requirements:**

| **Req Id** | **PW** | **Requirement Text** |
| --- | --- | --- |
| **Login Requirements** | | |
|  |  | The system shall provide registration capability for new users. |
|  |  | The system shall provide a login screen for all users. |
|  |  | The system shall check validity of user information. |
|  |  | The system shall provide a forgot password for all existing accounts. |
| **Forgot User ID Requirements** | | |
|  |  | The system shall require the user to insert an email. |
|  |  | The system shall return a User ID from a given email. |
|  |  | The system shall require the user to confirm their inputted email. |
|  |  | The system shall provide a return to login button. |
| **Reset Password Requirements** | | |
|  |  | The system shall require the user to insert a User ID. |
|  |  | The system shall require the user to insert a New Password. |
|  |  | The system shall require the user to reinsert the New Password. |
|  |  | The system shall provide a submit and return to login button. |
| **Registration Requirements** | | |
|  |  | The system shall require the user to insert a phone number. |
|  |  | The system shall require the user to insert a username. |
|  |  | The system shall require the user to insert a email. |
|  |  | The system shall require the user to insert a first and last name. |
|  |  | The system shall require the user to insert an address. |
|  |  | The system shall require the user to insert a city, zip and state. |
|  |  | The system shall require the user to confirm their information they have inserted. |
| **Main Interface Requirements** | | |
|  |  | The system shall provide a profile button. |
|  |  | The system shall provide a view books button. |
|  |  | The system shall provide a check in/out button which is only viewable to employees and employers. |
|  |  | The system shall provide a work log button which is only viewable to employees and employers. |
|  |  | The system shall provide a admin page button which is only viewable to employers. |
|  |  | The system shall provide a event log button. |
|  |  | The system shall provide a contact us button. |
|  |  | The system shall be visible to all users. |
| **Profile Requirements** | | |
|  |  | The system shall display a users First and Last Name. |
|  |  | The system shall display a users address. |
|  |  | The system shall display a users city, zip and state. |
|  |  | The system shall display a users Phone Number. |
|  |  | The system shall display a users email. |
|  |  | The system shall display a users status. |
|  |  | The system shall display a users Library Number. |
|  |  | The system shall provide a delete account button. |
|  |  | The system shall be visible to all users. |
| **View Books Requirements** | | |
|  |  | The system shall display all books in the Library. |
|  |  | The system shall display the books availability. |
|  |  | The system shall display the book's Title. |
|  |  | The system shall display the book's Author. |
|  |  | The system shall display the book's Year. |
|  |  | The system shall display the book's CRN. |
|  |  | The system shall display the book's Condition. |
|  |  | The system shall display the book's expected due date. |
|  |  | The system shall provide a search bar. |
|  |  | The system shall provide a search by genre bar. |
|  |  | The system shall provide a filter for all and any in the genre bar. |
|  |  | The system shall be visible to all users. |
| **Check in/out Requirements** | | |
|  |  | The system shall require the user to insert a CRN Number. |
|  |  | The system shall require the user to insert a users Library Number. |
|  |  | The system shall require the user to select if the book is being taken out or put in. |
|  |  | The system shall require the user to select if there is damage and how much to the returning book. |
|  |  | The system shall only be visible to employees and employers. |
| **Work Log Requirements** | | |
|  |  | The system shall display all the work that needs to be done and if its completed. |
|  |  | The system shall display and allow employees to input when the work was started. |
|  |  | The system shall display and allow employees to input who started the work. |
|  |  | The system shall display and allow employees to input when the work was done. |
|  |  | The system shall display and allow employees to input who completed the work. |
|  |  | The system shall only be visible to employees and employers. |
| **Admin Page Requirements** | | |
|  |  | The system shall provide a search accounts button. |
|  |  | The system shall provide a add/delete book button. |
|  |  | The system shall provide a set constants button. |
|  |  | The system shall only be visible to employers. |
| **Admin Search Page Requirements** | | |
|  |  | The system shall provide a search bar for users names and library numbers. |
|  |  | The system shall display the list of people with their name and library number if searched by users names. |
|  |  | The system shall display the users profile if searched by library number. |
|  |  | The system shall provide the employer to add comments under the account. |
|  |  | The system shall provide the employer ban/delete the account. |
|  |  | The system shall provide the employer change the status of the account. |
|  |  | The system shall only be visible to employers. |
| **Admin Add/Delete Page Requirements** | | |
|  |  | The system shall provide a add/delete book button. |
|  |  | The system shall allow employers to input a book's Title. |
|  |  | The system shall allow employers to input a book's Author. |
|  |  | The system shall allow employers to input a book's Year. |
|  |  | The system shall allow employers to input a book's CRN Number. |
|  |  | The system shall allow employers to input a books CRN Number to delete a book. |
|  |  | The system shall only be visible to employers. |
| **Admin Set Constants Page Requirements** | | |
|  |  | The system shall allow employers to input a damage fee. |
|  |  | The system shall allow employers to input a late fee. |
|  |  | The system shall allow employers to input a hourly pay. |
|  |  | The system shall allow employers to input the time a book may be kept. |
|  |  | The system shall allow employers to input a checkout size |
|  |  | The system shall allow employers to input different types of damages fee. |
|  |  | The system shall only be visible to employers. |
| **Events Requirements** | | |
|  |  | The system shall display all upcoming events with a date, title, and description. |
|  |  | The system shall have an add/edit button only visible to employees and employers. |
|  |  | The system shall be visible to all users. |
|  |  | The systems add/edit button will allow employees and employers to add a new event or edit any current events posted. |
| **Contact us Requirements** | | |
|  |  | The system shall display the creators email. |
|  |  | The system shall display the creators phone number. |
|  |  | The system shall display the creators company name. |
|  |  | The system shall be visible to all users. |
| **Non-Functional Requirement** | | |
|  |  | The system shall differentiate between the status of users. |
|  |  |  |
| **GUI Requirements** | | |
|  |  | The system shall have tabs that will only be visible to accounts that have access to such tabs. |
|  |  | The system shall provide a lamb. |
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# User Stories System Requirements