Library Management Program Tool

Project plan

Version 6

**Group 1 [Ursula Richardson, John Kucera, Jason Martin]**

University of Maryland Global Campus

CMSC 495 6380 Current Trends and Projects in Computer Science

Prof. Hung Dao

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision Number | Date | Description | Author |
| 1 | 16 Jan 2022 | Initial suggestion of how work will be split up; One person to create Back-End database, one for Back-End menu actions, one for Front-End menu GUI | John Kucera |
| 2 | 20 Jan 2022 | Creation of this document. Initial Draft of Requirement Specifications, Software Management, and Project Schedule. Added Cover Page and Revision History | Ursula Richardson |
| 3 | 21 Jan 2022 | Self-Review. Made additions to System Specifications and Project Schedule. | John Kucera |
| 4 | 22 Jan 2022 | Added Database Specifications to the Requirements Section | Jason Martin |
| 5 | 23 Jan 2022 | Reviewed for submission. Prepared document for submission by deleting groups comments and correcting grammatical errors. | Ursula Richardson |
| 6 | 27 Feb 2022 | Removed fines and some functions from Requirement Specifications to match current product. Added “MySQL Server 8.0” to System Specifications. | John Kucera |

PROJECT PLAN

1. Requirement Specifications

Group 1’s project is to create a **Library Management Program tool**. It will maintain a book database, a checked-out books database, and a user database. The tool will help library staff and members keep track of library inventory, book information, check-out information, and user information. Users of this tool will be either Library Admins (librarians, other library employees) and Library Members (customers/borrowers), with Admins having access to “Admin Settings”. The tool’s interface will be a GUI that starts with a login dialog prompting for user authentication, which leads to a menu bar containing options such as:

* Browse Books >
  + Search by title/author
  + Show Book Info
  + Check Out Book
* View Checked-out Books >
  + Return Book
* Change Password
* (Admin Settings) Add Book
* (Admin Settings) List Books
* (Admin Settings) Add User
* (Admin Settings) List Users
* Log out

More detailed information on requirement specifications is in the “Project Requirements” document.

1. System Specification
   1. Development platform: Intel Core 2 Quad 1.8 GHz (minimum), 4 Gigabytes Memory (minimum), Hard disk with at least 5.5 GB remaining space, Windows 10, Apache NetBeans IDE 10.0 with Java JDK 11, and MySQL Server 8.0.
   2. Operating or production platform: Intel Core 2 Quad 1.8 GHz (minimum), 2 Gigabytes Memory (minimum), Hard disk with at least 3.5 GB remaining space, Windows 10, Java JDK 11, MySQL Server 8.0.
2. Software Management

We will utilize **GitHub** to control the different versions of our software.

1. Project Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Duration**  **(days)** | **Start**  **Date** | **End**  **Date** | **Personnel** |
| 1. Project Requirements & Project Plan    1. Writing    2. Self-Review    3. Revise document for Submission | 7  2  4  1 | 1/19  1/19  1/21  1/25 | 1/25  1/20  1/24  1/25 | Ursula  All  Ursula |
| 1. Project Analysis 2. Analyzing    * Context Diagram    * Subsystem Diagram + Descriptions 3. Self-Review 4. Revise document for Submission | 7  4  2  1 | 1/26  1/26  1/30  02/01 | 2/01  1/29    1/31  02/01 | All:  Ursula  John, Jason  All  John |
| 1. Project Design 2. Designing    1. Class Diagram    2. Sequence Diagrams    3. Pseudocode & Writing 3. Self-Review 4. Revise document for Submission | 7  5  1  1 | 2/02  2/02  2/07  2/08 | 2/08  2/06  2/07  2/08 | All:  Ursula    John, Jason  All  Jason |
| 1. Project test plan and ICD 2. Test Plan Creation    * Lay out test cases, add descriptions    * Create ICDs 3. Self-Review 4. Revise document for Submission | 7  5  1  1 | 2/09  2/09  2/14  2/15 | 2/15  2/13  2/14  2/15 | All:  Ursula  John, Jason  All  Jason |
| 1. Implementation, Testing, Users Guide 2. Implement, Test, Update Test Plan 3. Self-Review 4. Users Guide 5. Self-Review 6. Revise document for Submission | 7  6  1  4  2  1 | 2/16  2/16  2/22  2/23  2/27  3/01 | 3/01  2/21  2/22  2/26  2/28  3/01 | All  All  All  All  John |
| 1. Final Deliveries 2. Source Code, Executables 3. Final Project Plan 4. Final Project Requirements 5. Final Project Analysis, Design, ICD 6. Final User’s Guide 7. Final Test Plan and Results 8. Self-Review 9. Revise documents for submission | 5  4  4  4  4  4  4  1  1 | 3/02  3/02  3/02  3/02  3/02  3/02  3/02  3/06  3/07 | 3/07  3/05  3/05  3/05  3/05  3/05  3/05    3/06  3/07 | All  John  Ursula  Jason  Jason  Ursula    All  John |