CMSC 495 6380 PROJECT REQUIREMENTS & TEST PLAN

GROUP 7

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REVISION HISTORY TABLE

DATE	NAME	DESCRIPTION
05/30/2022	Ayodeji Onitilo	Functional requirements and project plan
05/31/2022	Arnaud Tako	Additional requirements
05/31/2022	Franklin Pokam	Project plan
06/28/2022	Ayodeji Onitilo	Additional functional requirements

PROJECT REQUIREMENT

Topic

Library management system

Requirement

The goal of the project is to develop a library management system that manages the overall operation of the library.

Requirement #	Description
1a.	The system shall contain the record of the available books and the books that have been currently borrowed
1b.	The system shall show the record of the books that are currently borrowed
2.	It shall add new books in database and mark books that have already been issued “unavailable”
3.	Each book in the system shall have an identification number to easily locate the book (Same ID is not allowed for two or more books).
4.	Each book in the system shall fall under a specific category.
5.	The system shall also show the due date for the currently borrowed books.
6.	The system shall allow students or members to create their accounts by providing some basic details, access of any book is not allowed without entering their account.

7.	The system shall allow students to easily pay their fees and fines related to books. (Fee will be for membership and fines for each day late after passing the date of return of book.)
8.	The system shall allow users to check out books from the library and also return the borrowed books
9.	The system shall allow users to input books from a CSV file

REVISION HISTORY TABLE PROJECT PLAN

DATE	NAME	DESCRIPTION
05/30/2022	Ayodeji Onitilo	Worked on developing the functional requirements for the project
05/31/2022	Arnaud Tako	Added additional functional requirements and systems
05/31/2022	Franklin Pokam	Draft Revision

PROJECT PLAN

1. Requirement Specifications

The goal of the project is to develop a library management system that manages the overall operation of the library. It manages records of all books that are available in the library, and keeps the record of issued books and borrowed books as well. It also records the dates of books issued and collects them back. Each book will be given a unique identification number that makes it easy to record.

2. System Specification

- Windows 7 SP1 or later, x64 CPU architecture
- Ubuntu Linux 18.10 or later, x64 architecture
- macOS 10.11 or later, x64 architecture

Virtualization

All the above operating systems are also certified when running as virtual guest on any of the following hypervisors as long as the operating system is supported by that hypervisor.

- Oracle VM
- Solaris Containers
- Solaris LDOMs
- Microsoft Hyper-V Server
- Docker

Hardware

- RAM: 128 MB
- Disk space: 124 MB for JRE; 2 MB for Java Update
- Processor: Minimum Pentium 2 266 MHz processor

Development

- Eclipse 5.0

Operating Platform

No additional item is needed for the operating platform

3. Software Management

GitHub will be used for software version control.
https://github.com/CMSC-495-GROUP-7/LibraryManagementSystem/blob/main/README.md

4. Project Schedule

Week	Task	Duration	Start Date	End Date	Personnel
Week 2	Project Requirements i) Writing ii) Self-Review iii) Revise document for submission iv) Revise document for submission	7	05/25 05/28 05/28	05/31 05/31 05/31 05/31	Ayodeji Onitilo Ayodeji Onitilo Arnaud Tako Franklin Pokam
Week 3	Project Analysis v) Analysing vi) Self-Review vii) Revise document for submission		06/01	06/07	
Week 4	Project Design		06/08	06/14	

	- Inner and outer system - Pseudocode - System diagrams - Risks and mitigation				
Week 5	Project Test Plan and ICD		06/15	06/21	
Week 6	Implementation and Testing		06/22	06/28	
Week 7	Final Deliveries (Code, Binaries, Test Data, and User's Guide)		06/29	07/05	
Week 8	Peer review submission individual		07/06	07/10	