COURSE CODE: DCIT 321

COURSE TITLE: SOFTWARE EVOLUTION

GROUP WORK: GROUP 8

QUESTION 5:

IDEA: *CREATE A LIBRARY SYSTEM THAT HAS ALMOST ALL REQUIRED BOOKS REQUIRED FOR THE COMPUTER SCIENCE DEPARTMENT.*
GENERAL INFO ABOUT THE SUGGESTED PROJECT:

Introduction
The goal is to create a library management system specifically tailored for the Computer Science (CS) department of a university or academic institution. The system will maintain a collection of essential books, reference materials, research papers, and other resources required for various computer science courses, including programming, algorithms, data structures, operating systems, artificial intelligence, databases, and more.
This document outlines the functional and non-functional requirements of the system, as well as detailed use cases.
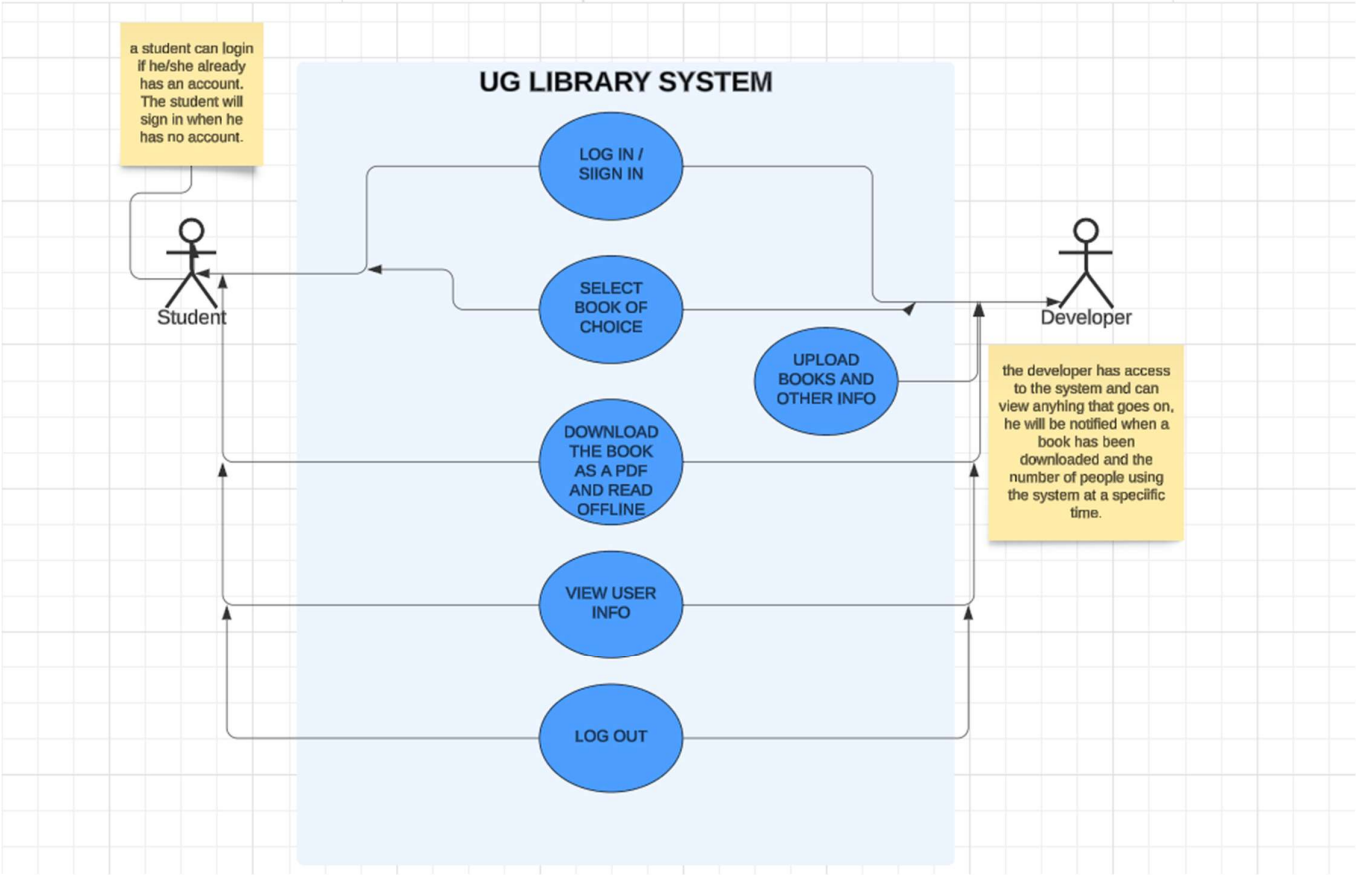
System Overview
The system should provide functionalities for:
- **Book Catalog Management:** Adding, updating, and removing books and resources from the catalog.
- **Book Search and Browse:** Users (students and faculty) can search and browse the collection based on various criteria.
- **User Management:** Managing student, faculty, and librarian accounts.
- **Downloads:** students can download books of their choice.

Functional Requirements:
- **Add Book:** Librarians can add new books to the system, specifying the title, author(s), ISBN, publisher, year of publication, genre, and any relevant tags (e.g., "Algorithm", "AI").
- **Edit Book:** Librarians can modify book details.
- **Remove Book:** Librarians can delete books from the system that are no longer needed.
- **Bulk Upload:** Ability to upload multiple books using CSV or Excel files.
- **Add Book:** Librarians can add new books to the system, specifying
- **Create User Account:** Students, faculty, and staff can create an account with basic details (name, department, role).
- **Profile Management:** Users can update their personal information and view borrowing history.
- **SMS/Push Notifications:** For quick reminders or urgent notices (optional).

USE CASE DIAGRAM:

FLOWCHART:

UG LIBRARY SYSTEM

START

LOG IN   SIGN IN

SEARCH FOR A BOOK

SELECT BOOK

READ   DOWNLOAD

LOG OUT

END