BAHRIA UNIVERSITY, (Karachi Campus)
Department of Computer Science
PROPOSAL

Course Title: Computer Programming   **Course Code:** CSL 113

Course Instructor: Ms. Azeema Sadia   **Class:** BS (CS)-1B

Lab Instructor: Ms. Mehwish Saleem   **Date:** 22-Nov-2024

PROJECT TITLE:

Online Book Inventory Management System
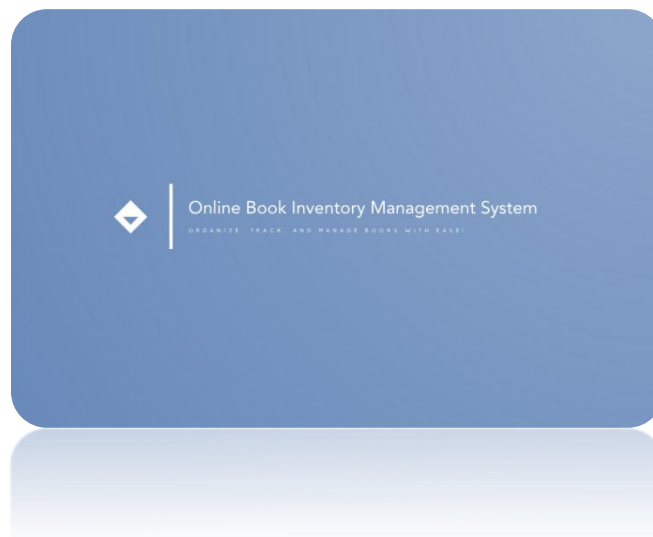
GROUP MEMBERS LIST:

Kumail Abbas Tabassum (LEADER)

(02-134242-107)

Sadia Saeed

(02-134242-005)

Ayesha Khan

(02-134242-091)

PROJECT SCOPE:

The essence of the Online Book Inventory Management System is to perform a radical transformation of book inventory management through the provision of an effective interface for easy working. It includes basic components including, book purchase, sales, customer and supplier interfaces, billing, and organization.

With CRUD operations, advanced search and filter capabilities, and automated transaction recording, the program will improve efficiency in operations in small and medium-sized bookstores. Its objectives include eradication of inequalities resulting from manual input, increase organizational productivity and customer satisfaction. However, sorting of the books for generations of detailed bills shall help in exposing operational aspects and making decision making easier.

PROJECT ABSTRACT:

The Online Book Inventory Management System is a C++ application designed to streamline book inventory management for bookstores. It supports CRUD operations, transaction tracking, and advanced features like search, sorting, filtering, and billing. Robust file handling for data integrity and reliability minimizes manual effort and enhances efficiency. This user-friendly system ensures seamless customer and supplier interactions.

PROJECT FUNCTIONALITIES:

1.Add, edit, and delete book records*:*
Enable users to create, modify, or remove book entries in the inventory.
2.Search and filter books by title, author, or genre:
Provide quick access to specific books based on defined criteria.
3.Track book availability:
Monitor and display the stock status of books in the inventory.
4.Store data persistently using file handling:

Ensure all data is securely saved and retrievable for future use.

MODULE DISTRIBUTION:

- Kumail Abbas Tabassum:

- ***User management***: *Handle user accounts, roles, and permissions within the system.*
- ***Categorizing books:*** *Group books into categories based on genre, author, or other criteria.*
- ***Transactions:*** *Record and manage sales, purchases, and other financial activities.*
- ***Supplier management:*** *Manage supplier information and track procurement activities.*

- Sadia Saeed:

- ***CreateAccount and userLogin:*** *CreateAccount registers a new user by saving their details, while userLogin authenticates the user by verifying their credentials to grant access to the system.*
- ***CRUD operations***: *Enable creating, reading, updating, and deleting records in the system.*
- ***Arranging books***: *Organize books in a sorted order for easy access and navigation.*
- ***Search***: *Allow users to locate specific books using keywords or criteria.*
- ***File handling***: *Ensure secure data storage and retrieval using robust file-based methods.*

- Ayesha Khan:

- ***Filter:*** *Narrow down book lists based on attributes like title, year, or genre.*
- ***Customer management:*** *Maintain customer details and purchase histories for better Service.*
- ***Book Purchase:*** *Manage the acquisition of books by recording details, quantities, and supplier information to maintain inventory levels.*
- ***Code editing:*** *Develop and refine the system's codebase to implement and improve.*

Teacher Signature: _____

Remarks: _____

Submission Date: _____