**Project Proposal:** Book management and store

**Introduction of Team**

Our group consists of 3 members.

1. *Amna Ahmad:* She is a content writer and system analyst. Currently doing internship at NUSTAC and TUKL LAB-SEECS. Looking forward to becoming a cyber security enthusiast.
2. *Misbah Noor Awan:* She is a game developer currently learning unity. Have a command on Python, JavaScript, and C++.
3. *Muhammad Ali Usman:* UI/UX designer working on frontend development skills.HTML and CSS

**Background**

In today's world of computer technology and information, the Internet has become a very complex and widely used source of information. The Internet is used for communication, recreation, education, distance learning, payment, shopping, marketing, and e-commerce and much more.

Doors to enter into all of this types of information and resources are called Websites. When comparing Web prices and costs to create and distribute traditional forms of advertising the presence of the Web enables businesses and organizations to advertise and reside.

Websites are open twenty-four hours a day, seven days a week, with the additional ability to reach millions of options instead of choosing just a few. Also searching becomes so easy by using websites. Purchase of goods is now easy. People can see the retailers and choose the best option that suits them using SEO tactics which conform to search engine guidelines by creating content that is useful for visitors rather than focused on deceiving search engine spiders.

Basic idea of our project is to provide users with such a website where they can search for the relevant books and purchase them according to the prices offered by retailers. There is a huge problem in finding relevant books for a topic. We want to create such a system that will help user find their required books using search tactics and our system will provide them different sellers incase they want to purchase book.

In **bookstore management system** the following Key modules are involved:

1. Admin module
2. Book Details module
3. Customer Details module
4. Retailer Details Module
5. Supplier Details Module
6. Purchase Details Module
7. shipping Module

For **search optimization** following modules would be included:

1. Articles
2. Keyword searching
3. Title search
4. Author search
5. Category search
6. Code search

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| Interface |
| Book Information | **Author Reputation** |  |
| Search Engine | **Supplier/retailer Module** |  |
| Billing | **Customer/User Module** | **Discount Module** |
| Customer-event triggers | **Student(Special) Module** | **Suggestion Algorithm** |
| Registration | **Administrator Module** | **Popularity module** |
| Core Clinical Modules | **Back Office and Support Modules** | |

**Plan of Action**

We shall design a website for this system. It will have a database connected at backend to store the user records and data. Also, the books data and retailers’ details will be saved in it. Different search engine optimization techniques will be applied on the system such as inverse frequency and cosine similarity techniques.

We shall use python as our core language accompanied by many others to create a responsive web design. Django framework will be used at backend due to its security and reliability. Data will be saved and updated in the database automatically. Also, the books and search data will be present. Proper forms will be filled for the order delivery.

**Objectives:**

* To develop a reliable book purchasing source.
* Database application to update automatically.
* Category wise search.
* Reduce the manual working burden.
* Searching of articles and books easily.
* Different price lines and suppliers will be available for sales.

**Scope**

This book management system (BMS) is used to overcome all the problems they are currently facing, and to make the operating system a computer program. An online store software that acts as a central database containing various books in stock and their title, author, and cost. This project is a website that acts as a central bookstore. A user visiting a website can see many different books without categories.

This system replaces the standard book management system that relies on paper-based paperwork. Online book management system is a web system where a customer can purchase books online. By using a web browser customers can search for a book by its title or author, in time they can add it to a shopping cart and eventually purchase books.

**Timeframe (Tentative plan)**

Initially we have divided it into 4 phases. But it might change with time according to situation.

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| **Phase** | **Description** | **Start and End dates** |
| Phase 1 | **Requirement analysis:**  All the tools used, and requirements will be done. Also, the tables to be made in database will be noted and data mining techniques will be used in it. | Approximately 2 weeks  *10-10-2021 – 21-10-2021* |
| Phase 2 | **Database setup:**  Database will be setup for the record updates and management. | *22-10-2021 – 30-10-2021* |
| Phase 3 | **Development phase**  Django and other frameworks will be used in this phase to setup the system. Also, frontend development will be done in this phase and integration will be done | *1-11-2021 – 25-11-2021* |
| Phase 4 | **Testing phase:**  Testing of all the system will be done and bugs will be fixed. Test first development will be used. | *26-11-2021 – 15-11-2021* |
| Phase 5 | **Implementation phase:**  Implementation of all the modules will be done so that system functions properly. | *17-11-2021 – 30-11-2021* |

**Statement of Contribution**

**Team member no1:**

**Name:** Amna Ahmad

**Class:** BESE-11A

**Main responsibility:**

Will be working on requirement gathering and Django framework. Will collect information regarding bookstores and use the analysis for project.

**Team member no2:**

**Name:** Misbah Noor Awan

**Class:** BESE-11A

**Main responsibility:**

Will be responsible for Integration and testing. As we will be using front line testing so every module will be tested separately during the development phase.

**Team member no3:**

**Name:** Muhammad Ali Usman

**Class:** BESE-11A

**Main responsibility:**

Will be working on Frontend interface of the website. Using CSS, JavaScript, and html for frontend development.

These tasks are generically assigned to members. We shall collaborate with each other and work together as a team to make this project successful. Search engine optimization will be done by collaboration.

**Approval Signature**