Assignment Title: **DMIT2504 Final Project – Book Management App**

Section: **A01**

Instructor Name: **Robbin Law**

Due Date: **April 1st, 2024**

Student Name: **Hai Le**

**Application Description:**

The "Book Library" app is a robust management tool designed to grant users access to their complete book collections from any location. Offering a user-friendly interface and diverse features, the app facilitates searching and saving multiple books to a Firestore cloud storage system.

**Main Functionalties:**

1. **Book Search, Creation and Management:**

Users should be able to search for any book title or author using a search bar. After finding the right book, the user will be able to add that book title to their own collection of books by storing it in the cloud storage.

1. **State Management:**

The application will utilize stateful widgets and a state management solution to ensure smooth and responsive user interactions.

1. **Remote Storage:**

The app will store the user’s book data in Firebase Firestore to provide real-time synchronization. Organize books in collections and documents within Firestore.’

1. **Consuming a web service (Open Library API):**

The application will be integrated with a RESTful API to fetch book-related information such as book titles, authors, and more. Here is the link of the Book API I will be using: https://openlibrary.org/developers/api

**Milestones of developing “Book Management”**

April 1, 2024

* Submit my project proposal
* Set up Final Project folder and Github repo

April 7 – 13, 2024

* Work on basic and advanced layout of the application
* Complete the user interface such as (button, search bar, add button)

April 14 – 20, 2024

* Complete Remote Storage
* Complete the Open Library API
* Intergrade all the componets into a complete product

**Conclusion:**

The "Book Library" application aims to give users the ability to effectively organize and oversee their book collections, enhancing the enjoyment of their reading endeavors. With its intuitive interface, effortless navigation, and instant synchronization, this app will prove to be an indispensable tool for book enthusiasts of all kinds.