

**BookNook Library Mobile Application
Final Report**

**CSC264
Introduction to Web and Mobile Application**

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GROUP: CDCS1104C

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1.0 ENTREPRENEURIAL MIND AND OPPORTUNITY

The entrepreneurial mind of the future will be characterized by adaptability, innovation, and a deep understanding of emerging technologies. In the context of BookNook, this mindset involves continually improving the platform based on user feedback, incorporating advanced features, and expanding the app's reach to new markets. The opportunity for BookNook lies in addressing the unmet needs of students for accessible, reliable, and relevant academic resources. BookNook can capitalize these unmet needs by continuously enhancing its features, such as personalized learning tools and interactive study aids, which can differentiate it from competitors.

The proposed BookNook application has strong potential for commercialization for several reasons. Firstly, adoption of digital learning tools in educational settings presents a significant market opportunity for BookNook. As educational institutions and students shift towards online and digital resources, BookNook can position itself as a key player by offering a platform that combines textbook access, peer reviews, and interactive learning features. The convenience and accessibility of digital textbooks make them an attractive alternative to traditional print versions, and BookNook can capitalize on this trend by providing a comprehensive digital library tailored to students' needs.

Secondly, the subscription-based model or freemium approach can generate steady revenue streams. By offering basic features for free and premium features at a cost, BookNook can attract a wide user base while monetizing advanced functionalities.

Lastly, strategic partnerships with textbook publishers and educational institutions can provide additional revenue opportunities through co-branded content and institutional licenses, ensuring a sustainable business model. Moreover, the platform can explore partnerships with educational institutions and publishers to expand its content library and offer exclusive resources.

2.0 INTRODUCTION

BookNook is an innovative platform designed for users especially higher education students to recommend and review textbooks they've used throughout their academic journey. Developed to cultivate a supportive community, BookNook allows students to share experiences, provide constructive feedback, and uplift one another. As Malaysia's economy grows, it's essential for students to focus on their education without being burdened by high textbook costs. BookNook is a valuable resource, helping students make informed decisions about their study materials, ensuring maximum value without unnecessary expenses.

BookNook also aligns with several Sustainable Development Goals (SDGs) such as Quality Education, Reduced Inequalities, and Responsible Consumption and Production. By helping students find the best-suited books for their studies and providing access to these books directly through the app, BookNook promotes Quality Education. It also aims to reduce educational inequalities by bridging the gap between students. Additionally, it encourages responsible consumption by informing students about the relevance and updates of textbooks, helping them spend wisely.

2.1. PROBLEM STATEMENT

Users such as students in higher education faced several significant challenges that hindered their academic success and overall educational experience.

Firstly, textbooks are essential for a comprehensive understanding of academic subjects, providing structured and reliable information that supports learning. Without access to the right textbooks, students often struggle unnecessarily, seeking alternative resources that may be less effective or harder to find. This lack of access can impede their academic progress and understanding of key concepts. Thus, many students had to make tough choices between purchasing necessary study materials and managing their limited budgets. This financial strain negatively impacted their ability to access the resources they needed for success.

Besides, users struggled to find reliable sources of information about the quality and relevance of textbooks. Without a platform to share their experiences, they often ended up purchasing books that did not meet their academic needs, leading to wasted time and money.

Moreover, students frequently purchased textbooks that quickly became outdated due to new editions or curriculum changes. This led to a cycle of continuous expenditure on new books, with little assurance of their long-term value. The lack of up-to-date materials impeded students' learning and adaptation to current academic standards.

2.2. OBJECTIVES

- To develop a robust recommendation system for users to find the most relevant textbooks for their courses.
- To encourage positive interactions and mutual support among users where they can share their experiences and provide constructive feedback on textbooks.
- To provide information on the most cost-effective study materials so students can prioritize their education without being burdened by excessive textbook costs.

2.3. SCOPE OF PROJECT

In this project, there is one scope, which is the user. The project aims to provide a comprehensive platform that addresses their needs for accessing, reviewing, and reading textbooks essential for their academic success.

First and foremost, the project includes key features such as direct access to textbooks using the app. It ensures that users have access to current and relevant editions of these textbooks. Additionally, the platform will allow students to write and read reviews, facilitating a recommendation system that suggests textbooks based on user preferences and peer reviews.

The project will include community-oriented approach in order to foster a collaborative learning environment among users. Furthermore, users will have the ability to create and update their profiles, and save favorite textbooks. From a technical perspective, BookNook will establish a robust backend system for managing the digital library, user data, reviews, and notifications. A reliable database will be employed to store all necessary information securely.

2.4. PROJECT SIGNIFICANT

- **Improved Access to Essential Resources:**

BookNook provides users with direct access to textbooks and resources that could alleviate its physical absence. This minimizes the struggle of finding alternative resources and supports better academic performance. By ensuring that users have access to the most relevant textbooks, BookNook helps them stay afloat of the latest developments and standards in their fields of study.

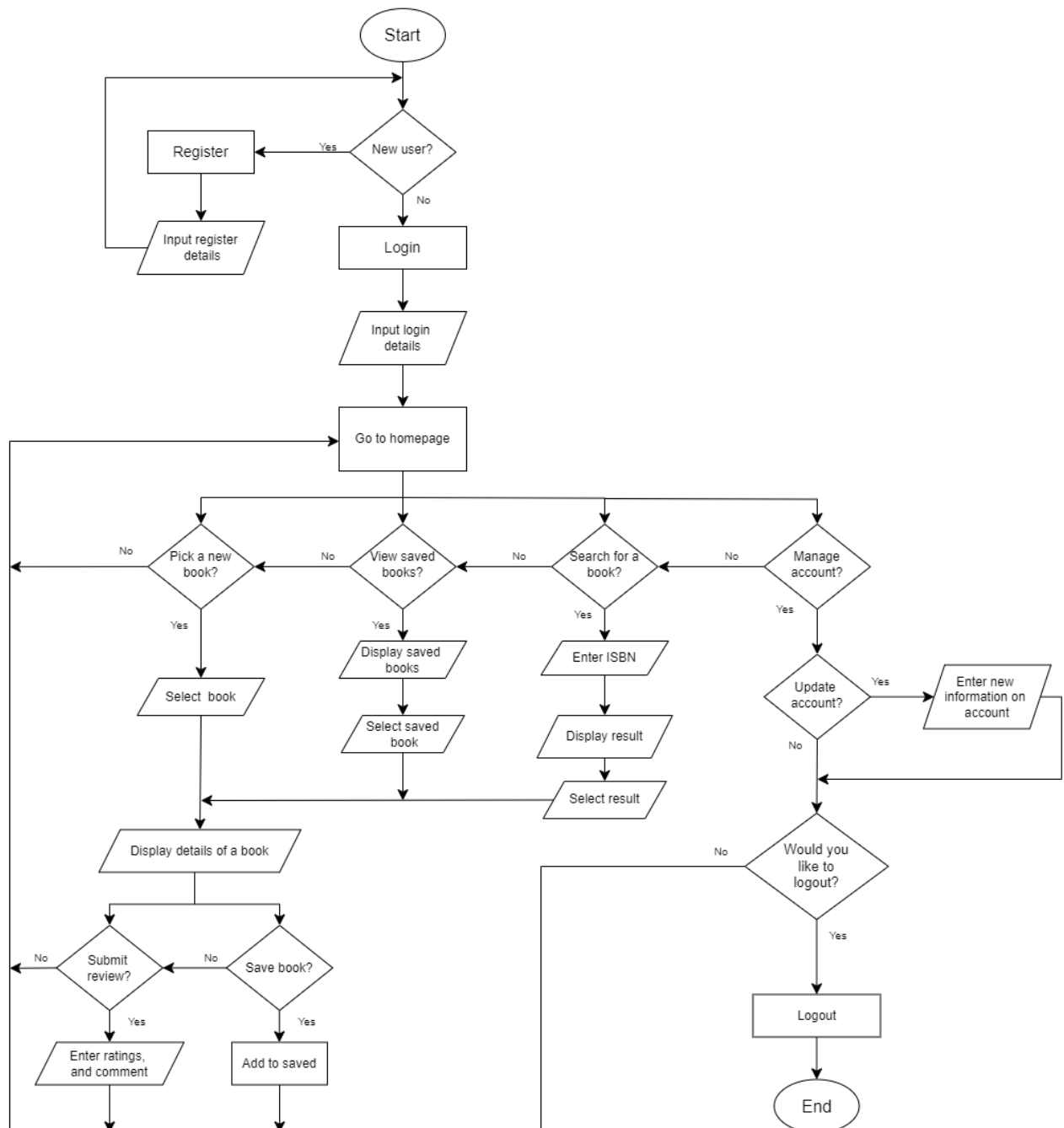
- **Community Building and Support:**

BookNook promotes a community where users like students can share their experiences and support each other. This collaborative environment enhances the overall learning experience. Through peer reviews and recommendations, students can make more informed decisions about their study materials, leading to more effective learning.

- **Educational Equity:**

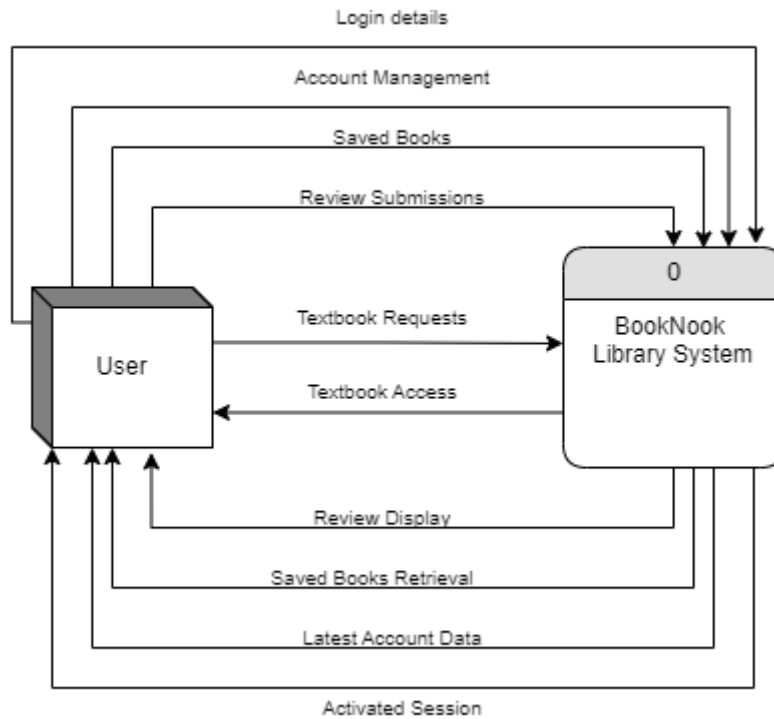
By providing equal access to textbooks, BookNook helps bridge the educational gap between students from different socioeconomic backgrounds. This promotes fairness and inclusivity in education. While not emphasizing the high cost, BookNook helps students access necessary study materials without unnecessary financial strain, allowing them to allocate their resources more efficiently.

3.0 FLOWCHART

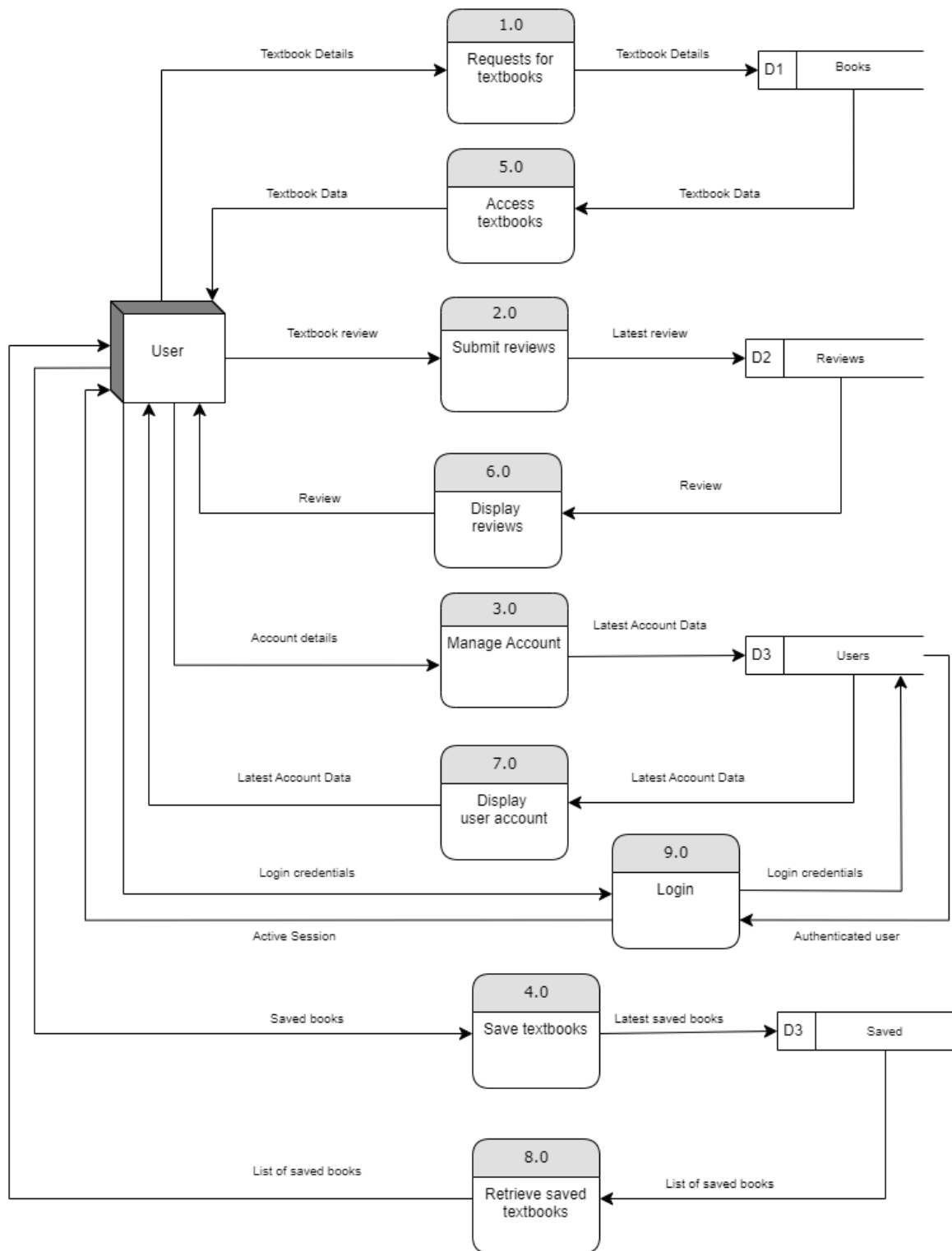


4.0 FUNTIONAL DESIGN

4.1 Data Flow Diagram (Level 0)




4.2 Data Flow Diagram (Level 1)



5.0 INTERFACE DESIGN

5.1 Register page

Register



Register New Account

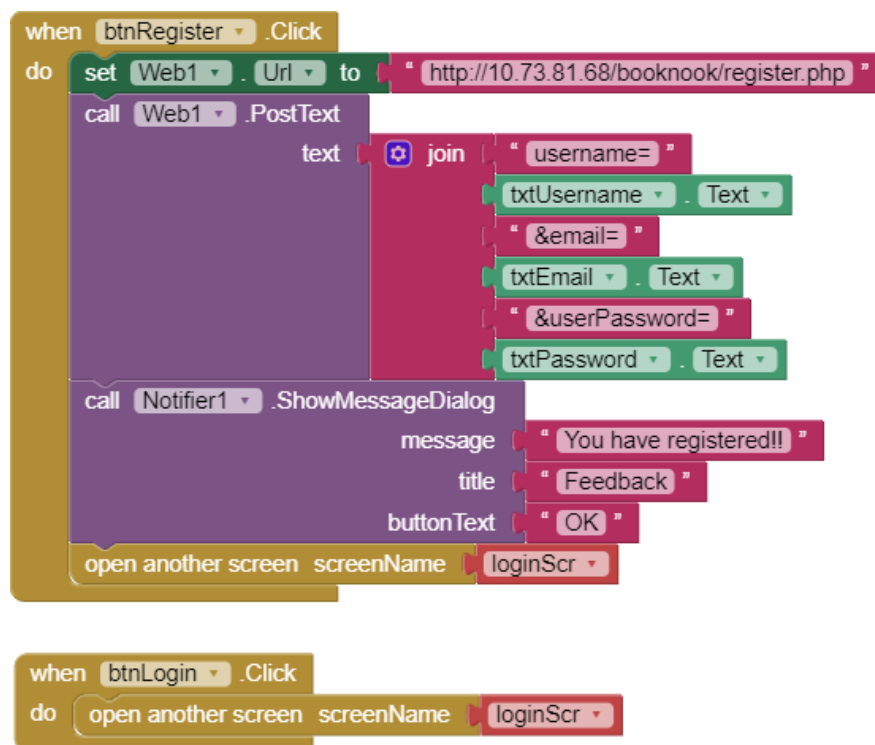
Username :

Email :

Password :


Sign Up

Already signed up? Log In instead.



5.2 Login page

Login

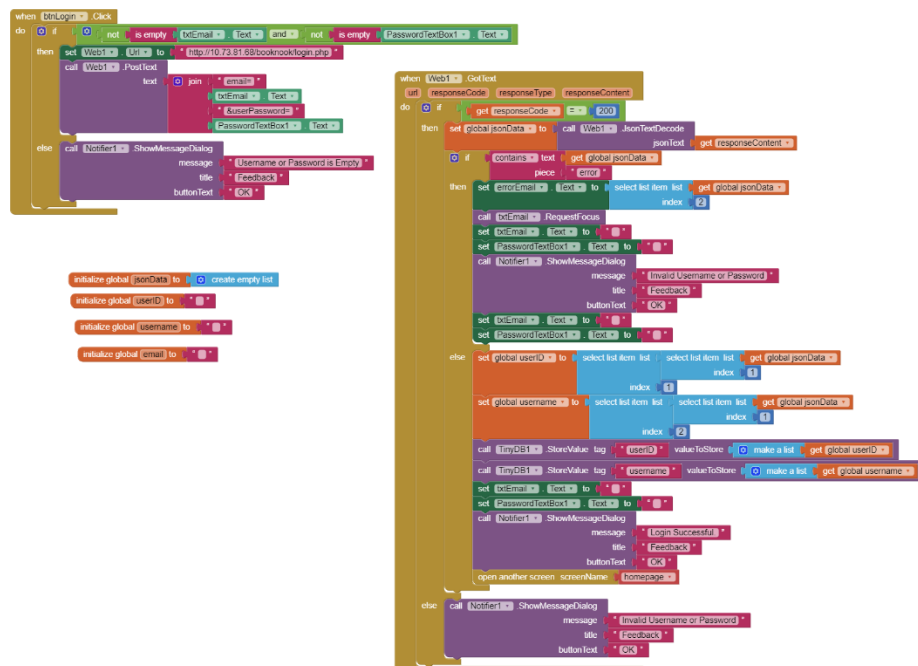


Login

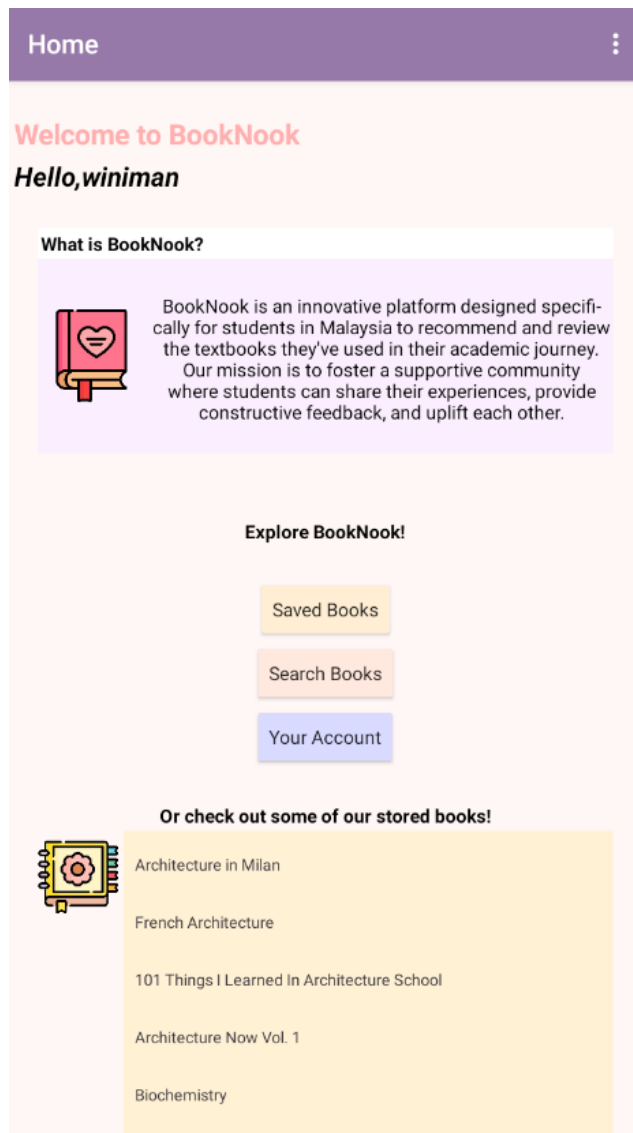
Email :
 Password :

Log In

Don't have an account? Register.

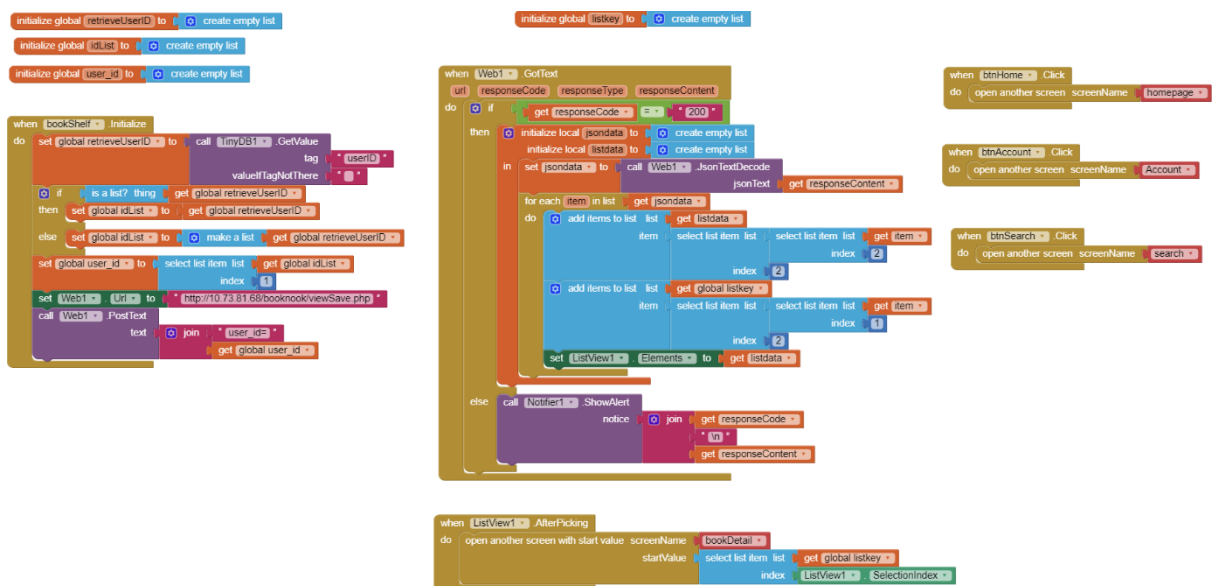
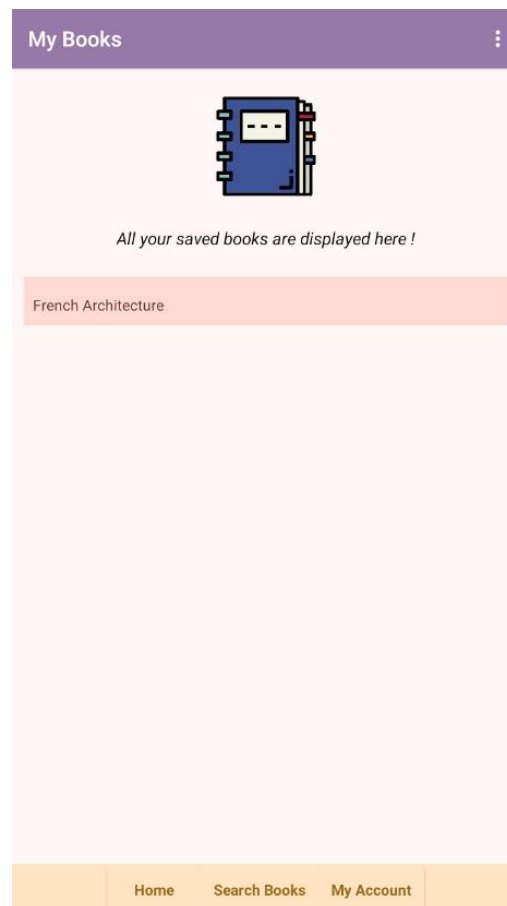


5.3 Home page

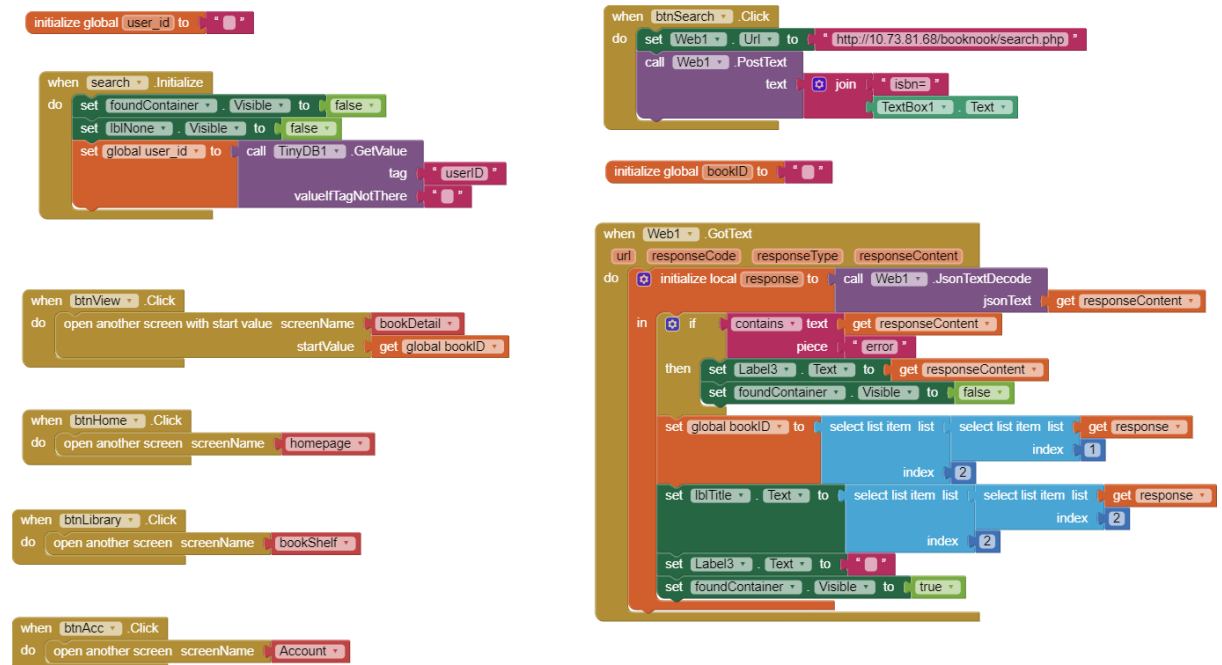
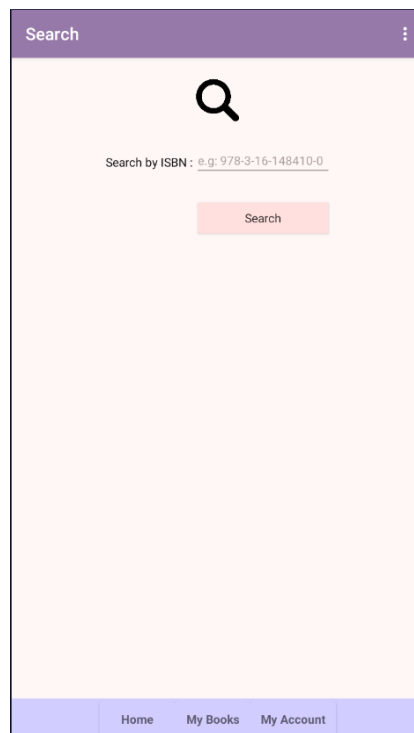




5.4 Saved book page




5.5 Search page



5.6 Book Detail page

Book

Architecture in Milan



Author : Nicolò Castellini Baldissera
University : Monash University
Study Field : Architecture
Edition : 1st
Published : 2022
Semester : 2
ISBN-10 : 67676234
ISBN-13 : 2352352525

Read

Synopsis

Interior designer Nicolò Castellini Baldissera and fashion and interiors photographer Guido Taroni offer a privileged glimpse into the homes of Milan's foremost creative residents.

Inside Milan ventures behind closed doors in this unique cultural capital that is renowned as a world leader in fashion, design, art, and industry. In this beautifully photographed book, icons such as Veronica and Jacopo Etro, Martina Mondadori, JJ Martin, and Barnaba Fornasetti reveal why they call this extraordinary city home.

Reviews

Rating for :

Is this really helpful for my field?

Is this book often used in classes?

Submit Your Review

Is this really helpful in class?

Is this book used in classes?

Comment or Suggest A Dupe!

Submit

Go To Home

Save

Book

photographer Guido Taroni offer a privileged glimpse into the homes of Milan's foremost creative residents.

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Is this really helpful in class?

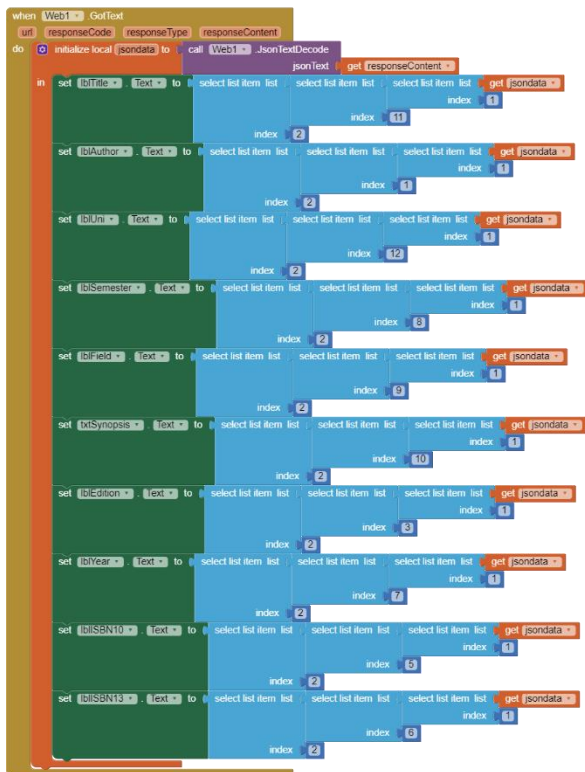
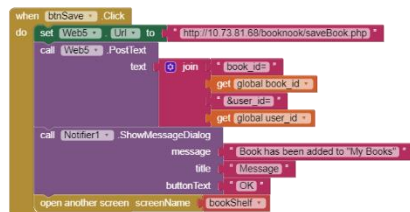
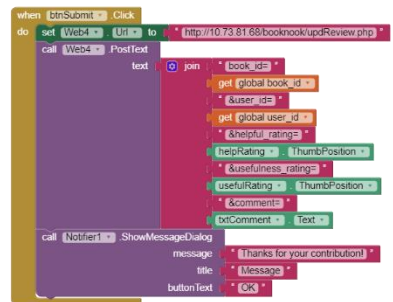
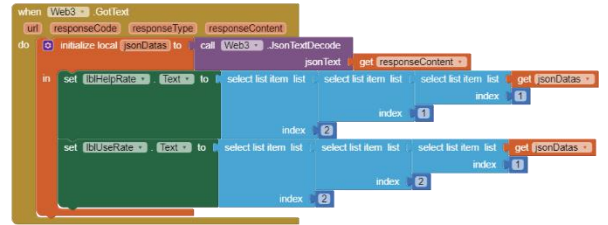
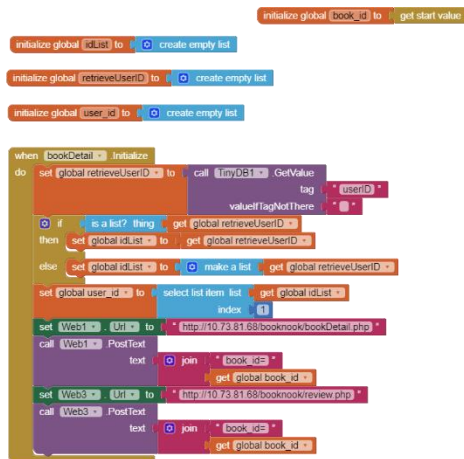
Is this book used in classes?

Comment or Suggest A Dupe!

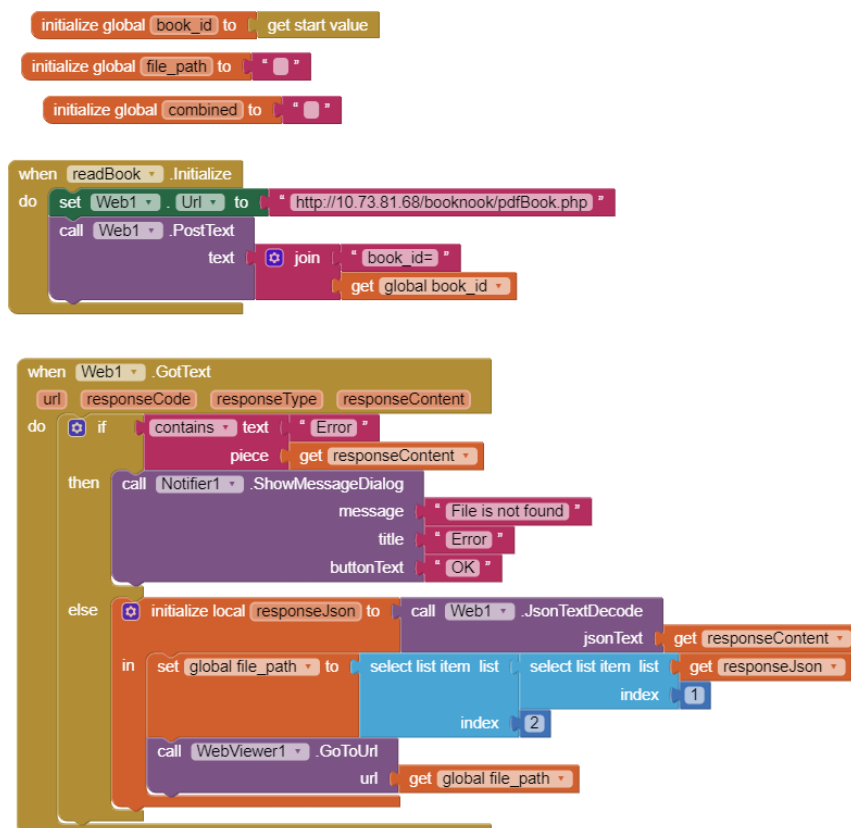
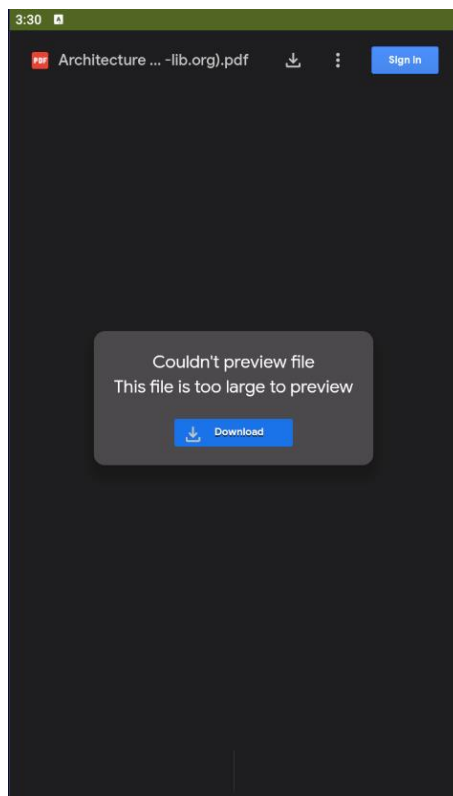
Submit

Go To Home

Save



5.7 Read Book page



5.8 Account page

Account


Welcome, winiman

Username : winiman

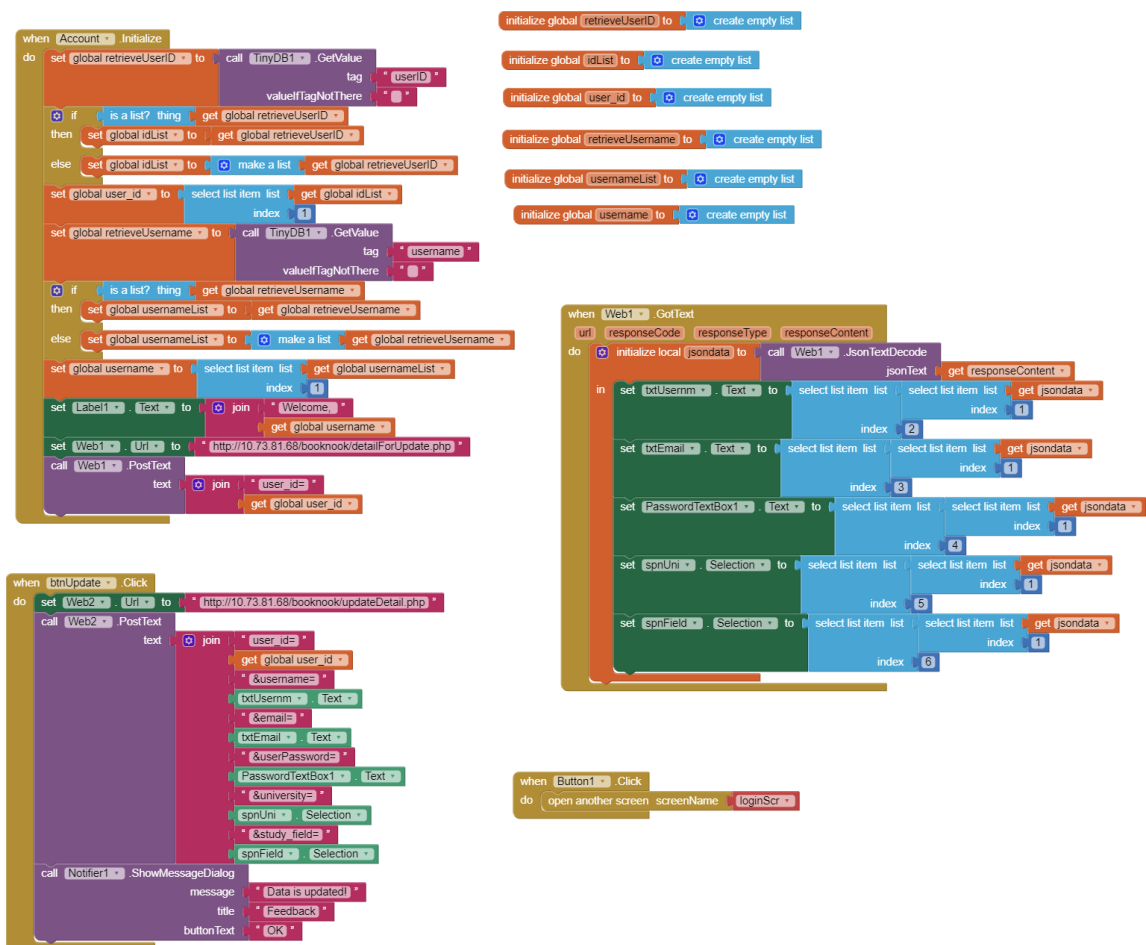
Email : nurinimanerau@gmail.com

Password : ****

University : Universiti Tun Hussein Onn Malaysia (UTHM)

Study Field: Architecture

Go To Home Logout Update



CONCLUSION

BookNook not only addresses immediate academic needs but also aligns with broader educational goals such as improving accessibility, reducing inequalities, and promoting responsible consumption of educational resources. Its focus on user engagement, adaptability, and collaboration makes it a valuable tool for users and a promising venture in the realm of educational technology. As BookNook continues to grow and evolve, it will play a pivotal role in shaping the future of academic resource management and student support.

REFERENCES

1. Edwards, L. (2022, June 3). What is MIT App inventor and how does it work? tips & tricks. TechLearningMagazine. <https://www.techlearning.com/how-to/what-is-mit-app-inventor-and-how-does-it-work-tips-and-tricks>
2. GeeksforGeeks. (2023, September 19). What is MIT App Inventor? GeeksforGeeks. <https://www.geeksforgeeks.org/what-is-mit-app-inventor/>
3. MIT App Inventor. (n.d.). <https://appinventor.mit.edu/>
4. Peto. (n.d.). PETO. PETO. <https://www.peto.pet/home.html>
5. Welcome to TinyDB! — TinyDB 4.8.0 documentation. (n.d.-b). <https://tinydb.readthedocs.io/en/latest/>

APPENDICES

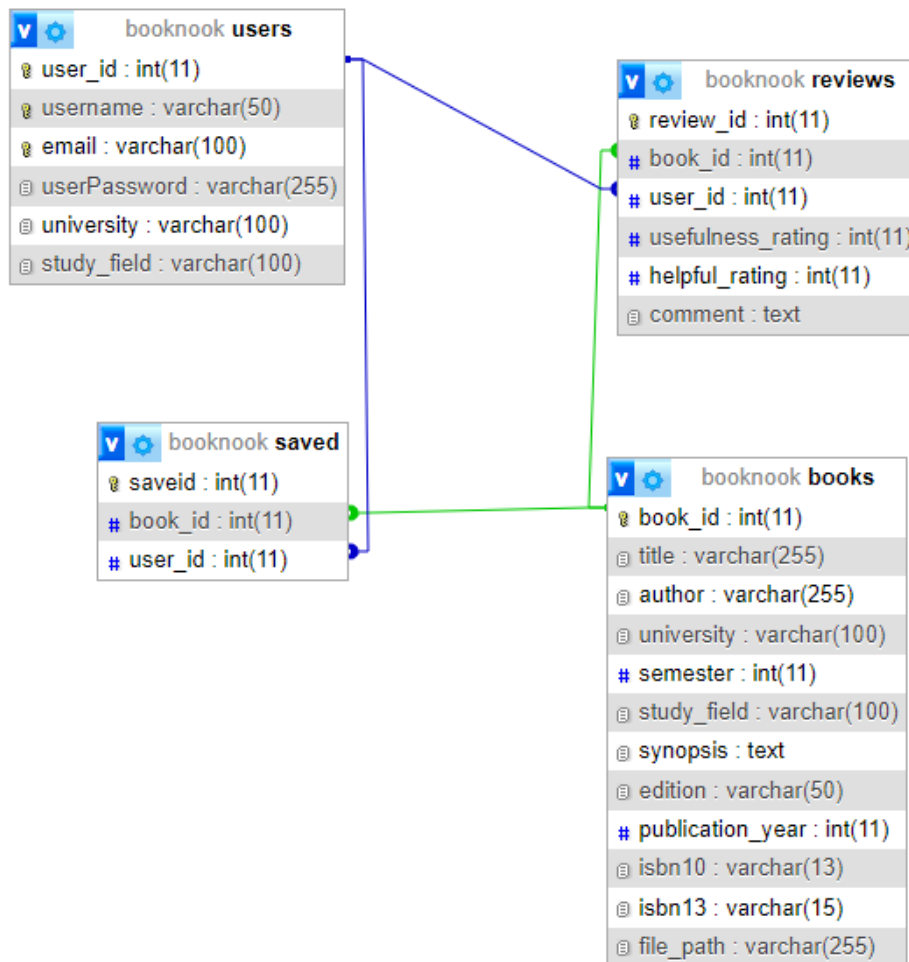


Diagram 1:BookNook Database Design

RUBRICS

1.Application

CSC264 - Individual Project Rubric (25%)									
No	User Interface & Information		0	1	2	Weight	Scored Earned (1-2)	Total earned	Actual Score
1	Intuitive and user-friendly design / Layout design	10	not exist	Incorrect/incomplete	Complete	5	2	10	
2	Responsive design for various screen sizes	10	not exist	Incorrect/incomplete	Complete	5	2	10	
3	Contains the home page, information about us, or pages to view related information	10	not exist	Incorrect/incomplete	Complete	5	2	10	
4	Effective use of navigation	10	not exist	Incorrect/incomplete	Complete	5	2	10	
Functionality									
5	Implementing CRUD Operation	10	not exist	Incorrect/incomplete	Complete	5	2	10	
6	Contains system authentication	10	not exist	Incorrect/incomplete	Complete	5	2	10	
7	Implementing the main process/module of the system (achieving main goal & objectives)	10	Show limited awareness but not reflect to the goal at all	Shows awareness of Goal	Goal is exceptionally well focused	5	2	10	
8	Completeness of Application	10	not exist	Incorrect/incomplete	Complete	5	2	10	
9	Entrepreneurial Experience	6	No entrepreneurial element	There is an entrepreneurial element	High-quality implemented entrepreneurial elements	3	2	6	
10	User Experience (UX) - a user interacts with and experiences a system (useful, usable, findable, desirable, accessible, credible, and valuable without conscious thought)	10	Not achieving or achieve only 1 of UX pillars	Achieving 2-4 UX pillars	Achieving 5-7 of UX pillars	5	2	10	
Deployment and Performance (5)									
11	Successful deployment on online/offline server or hosting platform (Google Play/App Store)	4	not deploy	Deploy on offline server	Deploy on online server	2	2	4	
TOTAL POINT WEB		100						100	
							TOTAL 25%	25	

2. Report

2. Individual Project Report (5%)								
No	Tasks	0	1	2	Weight	earned (0-2)	Total earned	Actual Score
1	Entrepreneurial Mind & Opportunity	No entrepreneurial idea for value adding/solving user/customer needs.	Business idea is clear but does not fulfill the realistic user/customer needs.	Able to mobilize the idea to become opportunity according to the business strategy and fulfill the user/customer needs.	5	2	10	
2	Introduction to system -problem statement -objectives -scope of project -project significant	Not able to write ideas systematically and with limited clarity and accuracy	Able to write ideas systematically AND fairly clearly and accuracy	Able to write ideas systematically AND with excellent clarity and accuracy	5	2	10	
3	Flow Chart	Not achievable or below expectation.	Achievable but level of complexity is below expectation.	Achievable and acceptable level of complexity.	5	2	10	
4	Functional Design -functional requirement / process design	Not achievable or below expectation.	Achievable but level of complexity is below expectation.	Achievable and acceptable level of complexity.	5	2	10	
5	Interface Design -Block codes	Not achievable or below expectation.	Achievable but level of complexity is below expectation.	Achievable and acceptable level of complexity.	5	2	10	
TOTAL POINTS						10	50	
						TOTAL 5%	5	

3.Presentation

2. Individual Project Presentation (5%)								
No	Assessment	1 Weak	2 Fair	3 Good	4 Very Good	5 Excellent	SCORES EARNED (1-5)	Actual Score
1	Delivery of ideas (Communicative ability)	Not able to deliver ideas clearly and require major improvements	Able to deliver ideas and require further improvements	Able to deliver ideas fairly clearly and require minor improvements	Able to deliver ideas clearly	Able to deliver ideas with great clarity	5	
2	Confident and articulate delivery of ideas (Communicative ability)	Not able to deliver idea confidently and articulate	Able to deliver ideas with limited confidence and effect and require further improvements	Able to deliver ideas fairly confidently and effectively and require minor improvements	Able to deliver ideas confidently effectively and articulately	Able to deliver ideas with great confidence, effect and articulately	5	
3	Understand and respond to questions (Communicative ability)	Not able to understand and respond to a question	Able to understand and answer questions but not able to accurately answer the question	Able to understand and answer questions satisfactorily	Able to respond to questions well	Able to fully understand and respond to questions very well	5	
4	Clarity, accuracy and systematically written academic discourse (Slide content)	Not able to write ideas systematically and with limited clarity and accuracy	Able to write ideas systematically BUT with limited clarity and accuracy	Able to write ideas systematically AND fairly clearly and accuracy	Able to write ideas systematically, clearly and accuracy	Able to write ideas systematically AND with excellent clarity and accuracy	5	
						TOTAL MARKS	20	
						TOTAL 5%	5	