



University Of Jordan

School Of Business

Business Hub Website

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Abstract

The Business Hub platform is designed to enhance student life by providing a centralized system for book exchange, academic staff information, and campus navigation. Many students struggle to access course materials, locate faculty offices, and navigate the university efficiently. This project addresses these challenges by integrating essential academic services into a single, user-friendly platform.

The platform enables students to buy, sell, and trade books, access faculty contact details and office hours, and utilize an interactive campus map. Developed with React for the front end, Node.js for the back end, and MySQL for database management, it ensures smooth, scalable, and responsive experience.

A feasibility study confirms the project's technical and financial viability, with low development costs and potential monetization through advertising and premium features. The structured development roadmap, including planning, design, implementation, and testing, guarantees a robust and efficient system.

By digitizing academic support services, the Business Hub improves accessibility, communication, and efficiency, making university life more organized and convenient for students, faculty, and administrators.

Chapter 1: Introduction

1.1 Background

This project operates within the educational technology domain, specifically focusing on student support services in higher education. In many universities, business students face a lack of centralized access to academic resources, departmental information, and campus guidance. The current reliance on scattered social media platforms, informal communication, and outdated systems creates confusion and inefficiencies. Our project addresses this gap by offering a unified digital platform that simplifies access to study materials, faculty information, campus navigation, and student guidance.

1.2 Problem Statement (What, Where, How)

- **What:** The business provides a platform that solves the issue of scattered student resources and unorganized access to academic services.
- **Where:** The business operates on an online website designed specifically to serve business students within the Faculty of Business.
- **How:** Students currently search for materials through social media groups, ask peers for staff locations, or rely on word of mouth to find campus info. These methods are unorganized, unreliable, and time-consuming. The business solves this by organizing all services in a clear structure categorized by majors and departments and making them accessible with just a few clicks through the website.

1.3 People Involved (Who)

The business owners are the three student developers who built and manage the platform. Employees include student volunteers from the Faculty of Business who help update information and materials when needed. The customers are regular students seeking easy access to academic resources and support.

1.4 Proposed Solution (Why, How)

- **Why:** The new system is needed to replace scattered, inefficient methods with a centralized, reliable platform. It adds value by saving time, reducing confusion, and providing organized access to essential services for business students.
- **How:** The proposed Business Hub platform will consolidate essential academic services, offering interactive multimedia for classroom navigation, structured book exchange systems, comprehensive staff directories, and detailed academic roadmaps tailored to each business major.

1.5 Objectives

- Provide business students with centralized access to academic resources, including course materials and a structured course tree by major.
- Simplify student life by gathering essential services such as hall locations, faculty contacts, university bus routes, and nearby support resources in one platform.
- Offer interactive tools and features like a book exchange, GPA calculator, and FAQ section to enhance academic support and engagement.
- Guide students through important academic transitions, especially graduation procedures, through a clear and accessible graduate guide.
- Promote student well-being and campus involvement by showcasing fun activities, unique campus spots, and underrated student-friendly services.

1.6 Target Users

Business students within the Faculty of Business, including regular users & volunteer .

2. Problem Statement

Business students often face difficulties accessing academic materials, locating faculty offices, and discovering important university resources due to the absence of a centralized platform. This creates a fragmented experience where students waste time, miss out on valuable services, and often spend more money than necessary. Without proper guidance, many navigate university life randomly, relying on scattered advice. This system aims to solve that by providing a well-organized, accessible website that gathers all essential services in one place—helping students save time, reduce costs, and enjoy a smoother, more informed academic journey.

2.1 Project Scope

The project aims to develop a web-based platform that centralizes all essential academic and campus-related services for business students. Geographically, the platform will serve the Faculty of Business at the University of Jordan. It will include features such as a structured course tree with downloadable materials, a book exchange system, academic staff information, hall locations, updated faculty news, guides for graduation procedures, tools like a GPA calculator, and access to nearby useful services. The system is designed to be easy to navigate. The platform will cover virtually every critical need for business students, and its target audience all students within the Faculty of Business who seek organized, fast, and reliable access to the resources that support their academic journey.

2.2 Uniqueness and Innovation

What sets this system apart is its shift away from unreliable, scattered solutions like social media groups and word-of-mouth communication. Our platform offers a structured, reliable, and instantly accessible source tailored specifically to business students. Its integrated book exchange replaces random, inefficient trading, eliminating missed opportunities and confusion common in scattered Facebook posts. It's a smart upgrade that saves time, improves accuracy, and creates a seamless academic experience. It also prevents students from scrolling through hundreds of Instagram or Facebook posts to find a specific book, academic staff member, or hall location.

2.3 Issues

While the system offers clear benefits, it may face certain challenges during and after launch. One potential issue is resistance from individuals who are hesitant about change or innovation and may discourage others through negative word of mouth rather than supporting the platform's growth. Additionally, language barriers could affect usability for some students; however, this has been addressed by providing a fully translated Arabic version of the site to ensure accessibility for all users. Another concern is the possibility of minor technical issues or system downtime upon launch, especially during the early access phase. While such problems are typically easy to fix once reported, they may initially create a negative impression among users. Despite these challenges, the long-term value and convenience the platform brings to business students far outweigh the temporary obstacles.

3. Business model

3.1 Value Proposition

The system eliminates the confusion of scattered information by offering business students a centralized, reliable platform. It saves time, cuts frustration, and delivers organized, up-to-date content far more effective than social media or random advice.

3.2 Target Customers and Market Segment

The primary users of the system are business students at the University of Jordan, including those from all academic years and majors. The system serves the governmental educational institution JU Business School.

3.3 Key Activities

The main processes required to operate the system successfully include completing front-end and back-end development, integrating the platform with a functional database, creating a secure user login portal, and hosting the system on a public domain. Additionally, the platform will be promoted through faculty-related Facebook pages with a small marketing campaign to reach the target audience. Once launched, the system will function as a 24/7 accessible website, providing continuous support and resources for business students.

3.4 Key Resources

To develop and sustain the system, several key resources are required. On the technical side, we rely on our personal laptops and mobile phones for development and content creation, along with tools such as Visual Studio Code for coding, draw.io for designing page layouts, Microsoft Office for documentation, and Adobe Photoshop for icon editing. Human resources include the three student developers responsible for building the platform, and in the future, a team of up to 5 to 8 student volunteers may be needed to support maintenance, updates, and user feedback. Financial resources involve subscriptions to Microsoft Office and Adobe Photoshop, as well as domain hosting costs. While partnerships or third-party services are not essential for launch, we may propose future collaboration with the Deanship of Student Affairs to support hosting and funding the project.

3.5 Customer Relationships

The system will interact with users through a direct, self-service interface where students can easily access the information and tools they need without intermediaries. Customer satisfaction will be maintained through regular content updates, responsive support from volunteers, and a user-friendly bilingual interface that adapts to students' needs.

3.6 Distribution Channels

The system will reach customers through a publicly accessible website promoted via faculty Facebook pages and student groups. Users can access the service anytime through their web browsers on both computers and mobile devices.

Chapter Two : Feasibility and Information Requirements

A feasibility study is an in-depth evaluation of a project's viability, analyzing its technical, financial, and operational aspects to support informed decision-making. It ensures that a project is practical, sustainable, and capable of addressing real needs before committing resources. In the case of Business Hub, this study assesses the platform's potential to streamline academic resource access, book exchanges, and faculty support within the University of Jordan's Business School. By examining user demand, technical requirements,

and implementation feasibility, we ensure the platform is both functional and impactful. This structured analysis helps validate its long-term sustainability, ensuring it effectively serves students while allowing for future growth.

4.1 Technical Feasibility

Technical feasibility evaluates the resources, tools, and technologies required to successfully implement the Business Hub platform. This includes software, development frameworks, and infrastructure necessary for deployment and maintenance. The key technical components for this system include:

4.1.1 Required Technologies

The system will be developed using HTML, JavaScript, and CSS for the front-end, with PHP for the back end. The platform will be web-based with a progressive web application (PWA) feature, allowing users to install the website on both Android and iOS devices

Windows operating system – Essential for development and testing.

PHP MY ADMIN – Used for backend development, providing a robust and scalable web⁽³⁾

Frontend Technologies[2] – HTML, CSS, JavaScript for UI/UX, ensuring a responsive and dynamic interface. ⁽²⁾

Microsoft Visual Studio Code – The primary integrated development environment (IDE) for coding and debugging.

Database Management – MySQL for handling user data and system records. ⁽⁴⁾

Draw.io – Used for designing system architecture, wireframes, and workflow diagrams.

Adobe Photoshop – For editing and optimizing images and visual assets.

Adobe Premiere Pro – For editing and optimizing videos and visual assets.

Microsoft Word – Used for documentation, report writing, and drafting content.

Adobe Acrobat PDF Reader – For managing and reviewing project documents and PDFs.

Adobe Premiere Pro – For Editing Halls Videos and add effects and cuts .

Hardware

- Lenovo IdeaPad Slim 3 -- i5 13420H 13Gen up to 4.6Ghz 8-Cores 12M Cash -- 16GB DDR5-4800 -- 512GB SSD M.2 2242
- HP Pavilion x360 – 13th Gen Core i3-1215U – 8GB RAM – 256GB SSD – 1TB HDD.
- Acer Nitro V 15 2023 – 13th Gen -- i5 13420H – 16GB RAM – 512GB SSD – RTX NVIDIA 2050 4GB.

4.1.2 System Integration and Compatibility

The system will not integrate with any existing software or databases; instead, a custom database will be created to gather and manage all necessary information. As for compatibility, the system is fully compatible with most devices since it operates through web browsers, ensuring accessibility on both desktop and mobile devices without specific operating system dependencies.

4.2 Economic Feasibility

Economic feasibility evaluates the estimated costs required for the development, deployment, and maintenance of the Business Hub platform. The goal is to assess whether the project is financially viable and sustainable. Below is an estimated breakdown of the costs:

4.2.1 Expected Income After One Year (Google AdSense)

Metric	Value	Notes
Estimated Daily Active Users	400	Projected reach after promotion to campus
Page Views per User per Day	5	Students browse around different pages
Total Daily Page Views	2,000	400 users × 5 pages
CPM (Cost per 1000 Impressions)	\$4.00	education content, average AdSense CPM range
Daily Ad Revenue	\$8.00	$(2,000 \div 1000) \times \$4.00 = \$8.00$
Monthly Ad Revenue	\$131.40	$\$8.00 \times 30 \text{ days} = \240.00
Annual Ad Revenue	\$2,880.00	$\$240 \times 12 \text{ Months} = \$2,880.00$

4.2.2 Expected Costs After One Year

items	Cost (\$)	Notes
Microsoft Office Suite	200	Software cost
Adobe Photoshop & Premiere	22	1 Month subscription Needed Only
Draw.io (1)	free	Optional upgrade to Premium
Lenovo IdeaPad Slim 3 (2025) (5)	369	Portable Pc's equipped with
HP Pavilion x360 (6)	399	High end parts to be able to
Acer Nitro V 15 2023 (7)	529	Stand the heavy work on it
Western Digital 2TB Purple Internal Hard Drive (8)	50	Backup and storage
High-Speed Internet – Fiber	200	Yearly plan
Domain Registration	15	Annual domain fee
Cloud Hosting (30×12)	360	Hosting servers
SSL Certificate	40	For HTTPS encryption
DB Hosting (20×12)	240	Either MySQL or PostgreSQL
Visual Studio Code (25×12)	300	IDE usage (estimated as subscription)
Total Annual Cost	2,724 \$	

4.2.3 Expected Profit Margin

Metric	Amount
Annual Income (USD)	\$2,880.00
Annual Cost	\$2,724.00
Profit (Approx.)	+156.00
Profit Margin	+5.42%

4.3 Operational Feasibility

Operational feasibility assesses how well the Business Hub platform will function in a real-world environment, ensuring it effectively supports users and integrates seamlessly into academic processes.

4.3.1 User Readiness and Adoption

The system will be used primarily by students within the Faculty of Business. No formal training will be required, as the platform is designed to be intuitive and easy to navigate.

4.3.2 Business Process Integration

The system will complement existing business processes by providing an organized, digital solution to access academic resources and services. It will replace manual processes such as searching for materials through social media or word of mouth, streamlining tasks like book exchanges, faculty contact lookups, and campus navigation into a single, efficient platform.

4.3.3 System Maintenance and Support

System updates and bug fixes will be handled through the "Contact Us" section, where users can report issues by directly emailing the developers. Once a problem is reported, it will be addressed promptly, ensuring ongoing technical support and timely resolution of any issues.

5. Project Plan

A project plan is a structured roadmap detailing objectives, scope, deliverables, timeline, resources, roles and milestones to guide, coordinate and monitor all project activities.

5.1 Project Planning & Scope Phase (2 days)

This phase focused on laying the foundation for the entire project. It involved clearly defining the platform's purpose, the features it should include, and the users it will serve. The team also determined the scope of work and evaluated the project's feasibility. Resources were allocated among the team members, and key tasks were outlined to ensure smooth execution in later phases.

5.2 Report 1 Phase (3 days)

The first report was prepared to present an early overview of the project's idea and scope. It summarized initial findings, system goals, and team roles. This document was submitted as a milestone for academic review and feedback, confirming that the project was on the right track before moving forward.

5.3 Media & Data Gathering Phase (5 days)

In this step, the team gathered all visual and content assets required for development. This included collecting department logos, academic staff details, course materials, book references, and relevant media files such as photos and screenshots. These files were organized and stored for easy access during design and development.

5.4 Analysis Phase (8 days)

A detailed analysis was conducted to ensure that the platform meets real needs. This phase involved documenting user and system requirements, preparing an Entity Relationship Diagram (ERD), and analyzing the feasibility from technical, operational, and economic perspectives. A general flow of how the system will operate was also mapped out.

5.5 Design Phase (10 days)

The design stage focused on how users would interact with the platform. Wireframes and layout sketches were created to structure the homepage, department pages, book exchange system, and admin dashboard. Visual consistency, mobile responsiveness, and accessibility were considered throughout this stage.

5.6 Development Phase (28 days)

This was the most time-consuming and technically demanding phase of the project. It began with setting up the core structure using HTML, CSS, and JavaScript to build a clean and responsive front-end layout. All pages, including the homepage, department sections, and service modules, were manually coded to ensure consistency across screen sizes and devices. For the backend, PHP was used to implement logic and interactions, while MySQL managed all relational data through phpMyAdmin. The authentication system was developed to support multiple user roles (Admin, User) with secure session handling and access control.

Major modules like the dynamic book exchange system were implemented, allowing users to give, take, or swap books with real-time data updates. An admin dashboard was created to manage content such as courses, books, and academic staff. Additionally, a chat system was built to support private communication between students for book requests and responses. Throughout the development, testing was done locally using the XAMPP environment. Database connection issues, session persistence bugs, and UI inconsistencies were gradually resolved as features were rolled out and integrated. Each section of the platform was tested and refined incrementally to ensure it functioned correctly under different use cases.

5.7 Finishing Report Two Phase (2 days)

A mid-project report was drafted and finalized to summarize the work completed so far. This included updated screenshots, database schema, user flows, and early UI samples. The report was used to track project status and show progress to the supervisor.

5.8 Start Final Documentation Phase (4 days)

Work began on the final project documentation, which included system details, implementation decisions, screenshots, and progress breakdowns.

5.9 User Manual Phase (5 days)

A user-friendly manual was written to guide students and faculty on how to use the platform. It included illustrated instructions for signing in, using the book exchange, viewing departments, and accessing campus services. This phase focused on clarity and ease of use.

5.10 Finishing Final Documentation Phase (5 days)

The documentation was reviewed, formatted, and finalized for submission. All sections were proofread and adjusted for consistency. Pages were printed and organized according to university guidelines, ready for final delivery.

5.11 Project Discussion Phase (1 day)

A final presentation was held to showcase the project results. The team explained system functionality, challenges encountered, and key lessons learned during development. Questions from the supervisor and audience were answered based on live demos and documentation.

5.12 Timeline

Phase	Activities	Duration	Completion
1. Planning + Scope	Define objectives, determine scope, resource allocation and initial feasibility	2 days	01 Mar – 02 Mar
2. Report 1	Prepare initial project report and summary.	3 days	03 Mar – 05 Mar
3. Media & Data Gathering	Collect logos, course materials, faculty data, books, references, photos, media files	5 days	06 Mar – 10 Mar
4. Analysis	Requirement gathering, ERD, feasibility (technical, economic, operational), system flow	8 days	11 Mar – 18 Mar
5. Design	UI/UX design, wireframes, layout sketches, page structure planning	10 days	19 Mar – 28 Mar
6. Development	Build front-end and back-end: HTML, CSS, JS, PHP, MySQL, auth, dashboard, chat, book exchange	28 days	29 Mar – 25 Apr
7. Finishing Report 2	Draft and finalize mid-stage documentation and project updates	2 days	26 Apr – 27 Apr
8. Start Final Documentation	Begin writing final report and documentation	4 days	02 May – 06 May
9. User Manual	Write user instructions and how-to guides	5 days	02 May – 06 May
10. Finishing Final Documentation	Finalize report formatting, printing, submission	9 days	07 May – 15 May
11. Discussion Project	Present and discuss outcomes, feedback, and lessons learned	1 day	27 May

5.13 Gantt Chart :

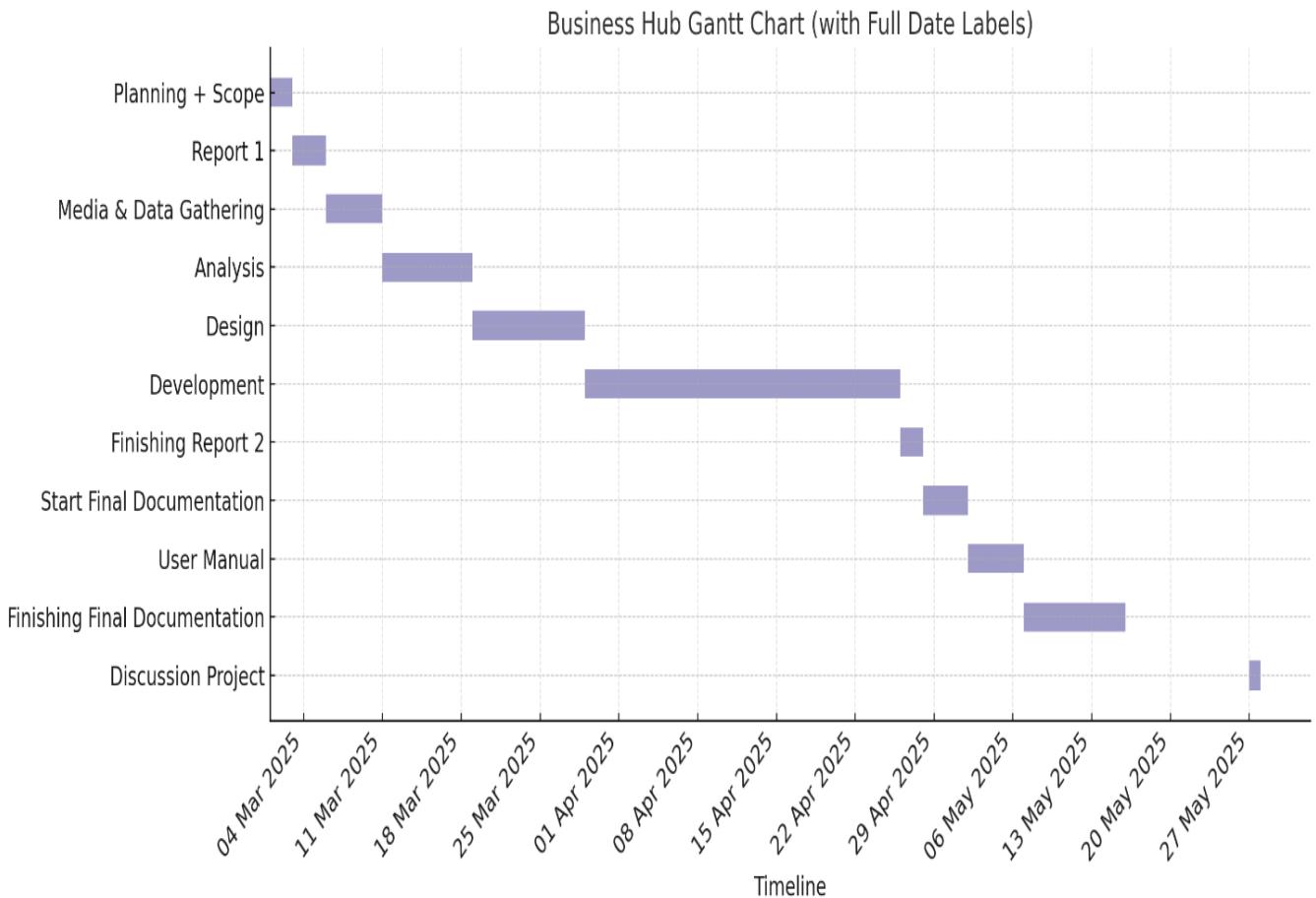


figure 5.7 : Gantt Chart

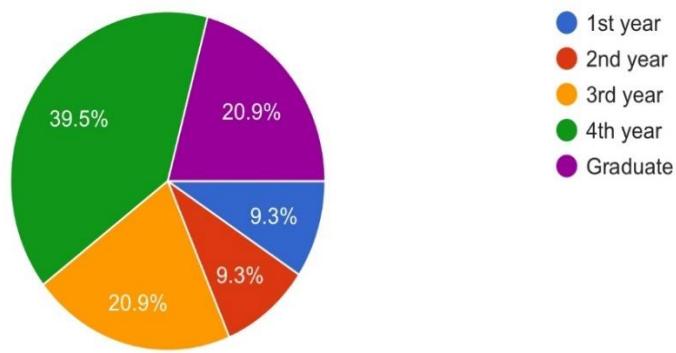
6. Questionnaire

This section presents a structured survey designed to collect key insights from students at the University of Jordan's Business School. The questionnaire aims to evaluate the feasibility, usability, and necessity of the Business Hub platform by addressing common academic and administrative challenges faced by students.

6.1 Survey Questions

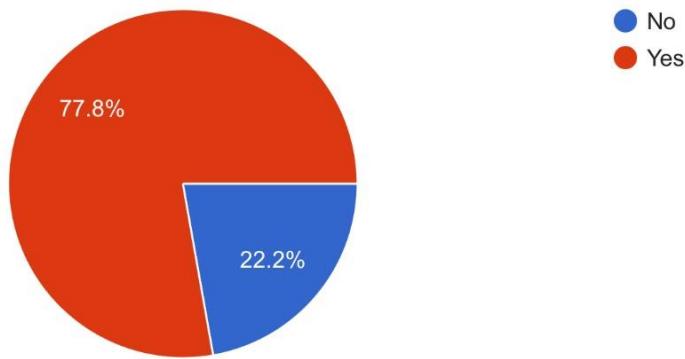
Which year of study are you in?

43 responses



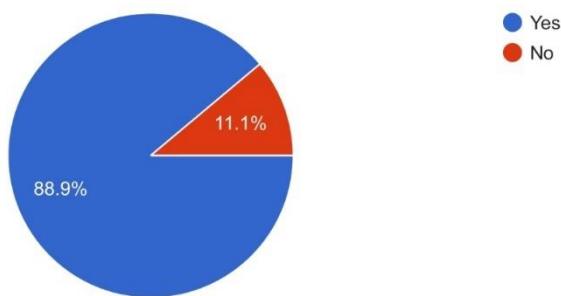
Do you find a problem to locate your major subjects in a simple form ?

117 responses



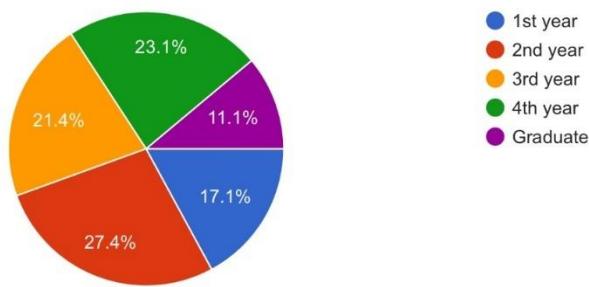
Do you prefer to have a website for your faculty to help your studies ?

117 responses



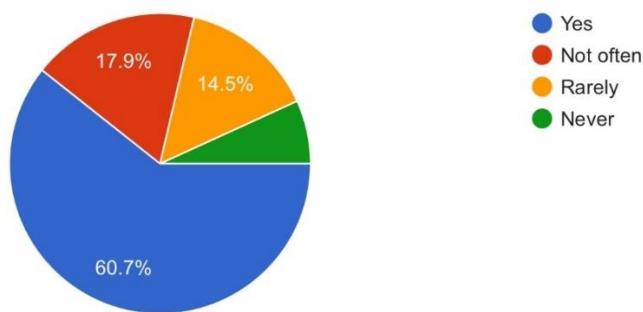
Which year of study are you in?

117 responses



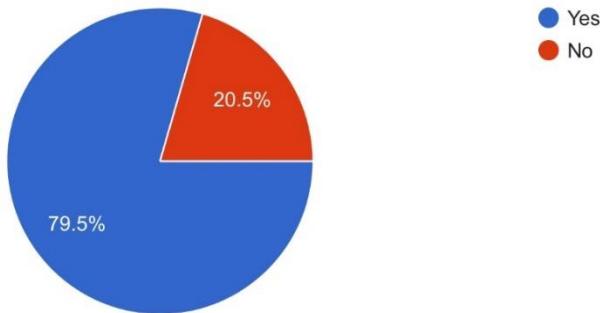
Do you offer to others studying materials ?

117 responses



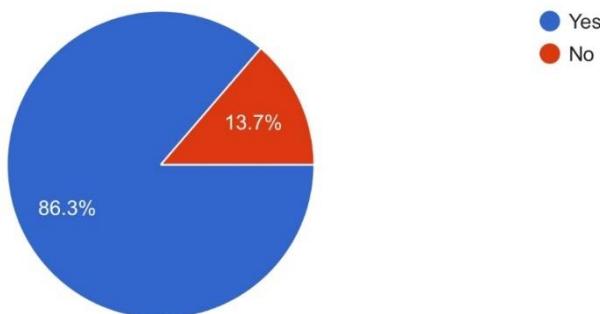
Are you having difficulty registering your courses?

117 responses



Are you having difficulty finding the right study resources for your studies?

117 responses



6.3 Survey Results Summary

A total of [117] students participated in the survey, and the responses were analyzed to determine the most critical student concerns. The results indicate:

75% of students prefer having an academic support website.

60% of students struggle with locating their major subjects' information.

55% of students experience difficulties in registering for courses.

70% find it challenging to access proper study materials.

Chapter 3 System Analysis :

7. Use Case

A use case is a methodology used in system analysis to identify, clarify and organize system requirements.

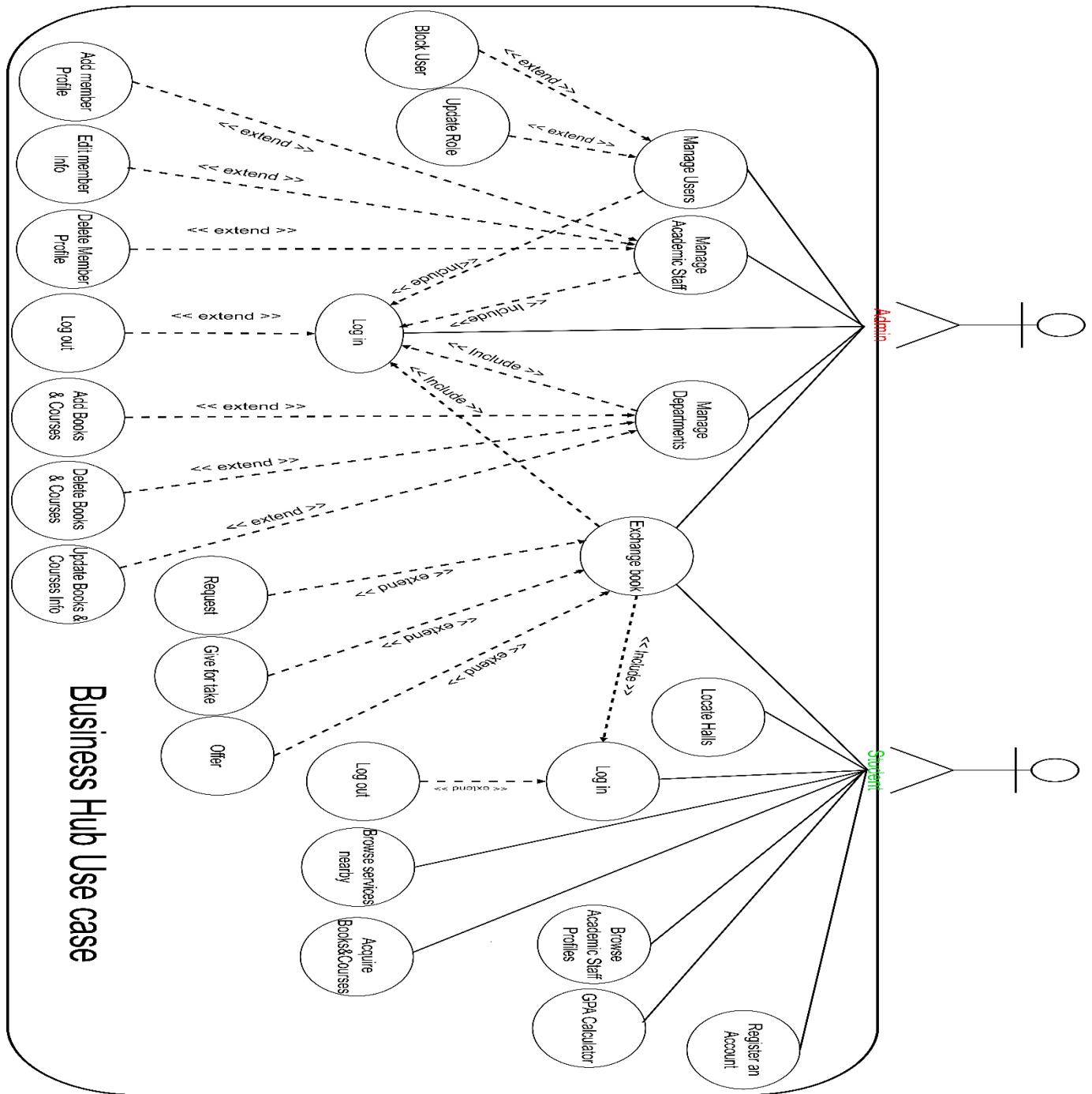


Figure 7.0 : Business Hub UseCase

8.Flowcharts

A flowchart is a type of diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach to solving a task.

8.1 Student/Admin Login Flow Chart

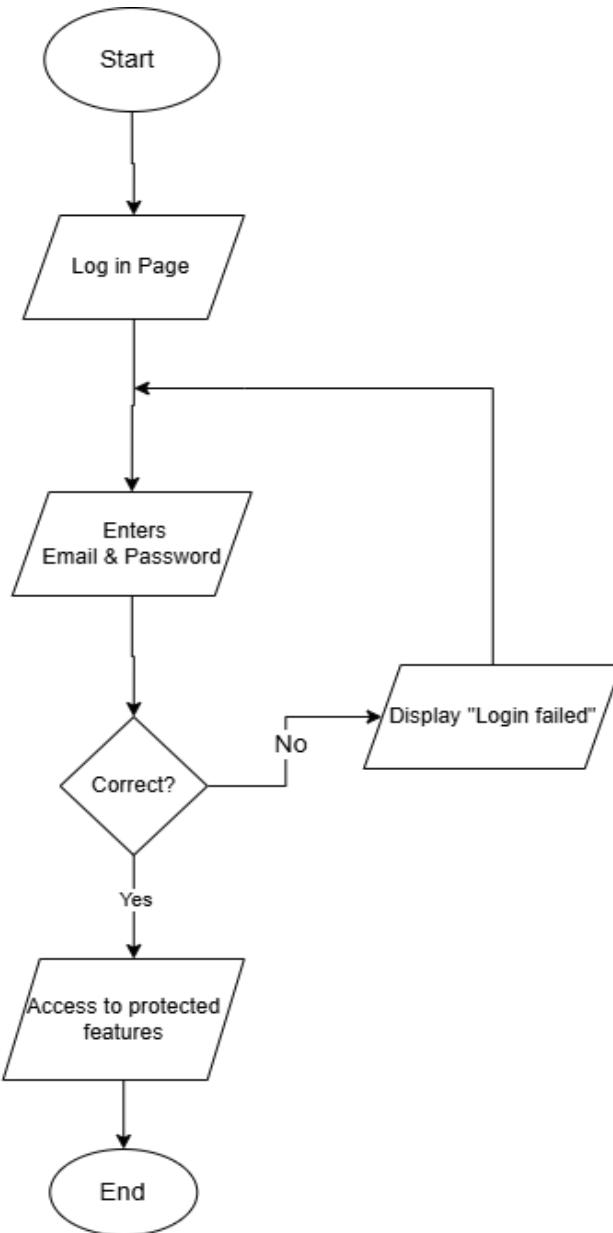


Figure 8.1 : Student and Admin Login FlowChart

8.2 Student Register Flow Chart

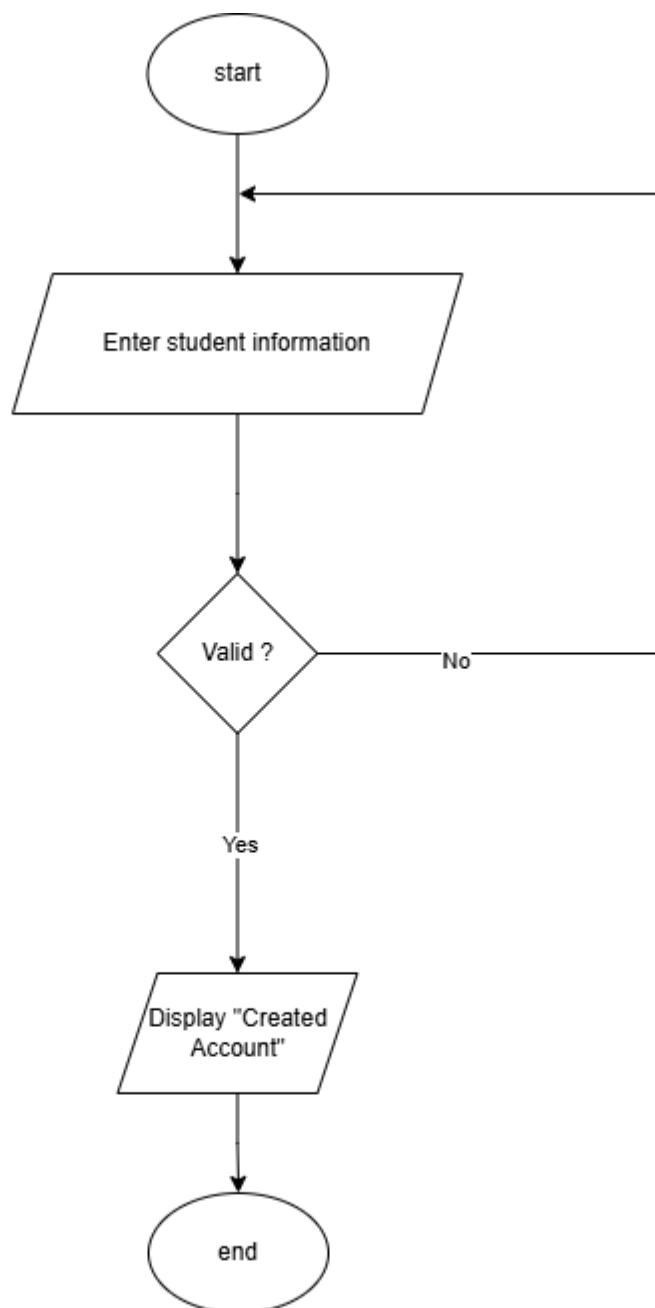


Figure 8.2 Student Registration Flowchart

8.3 Book Exchange F.C

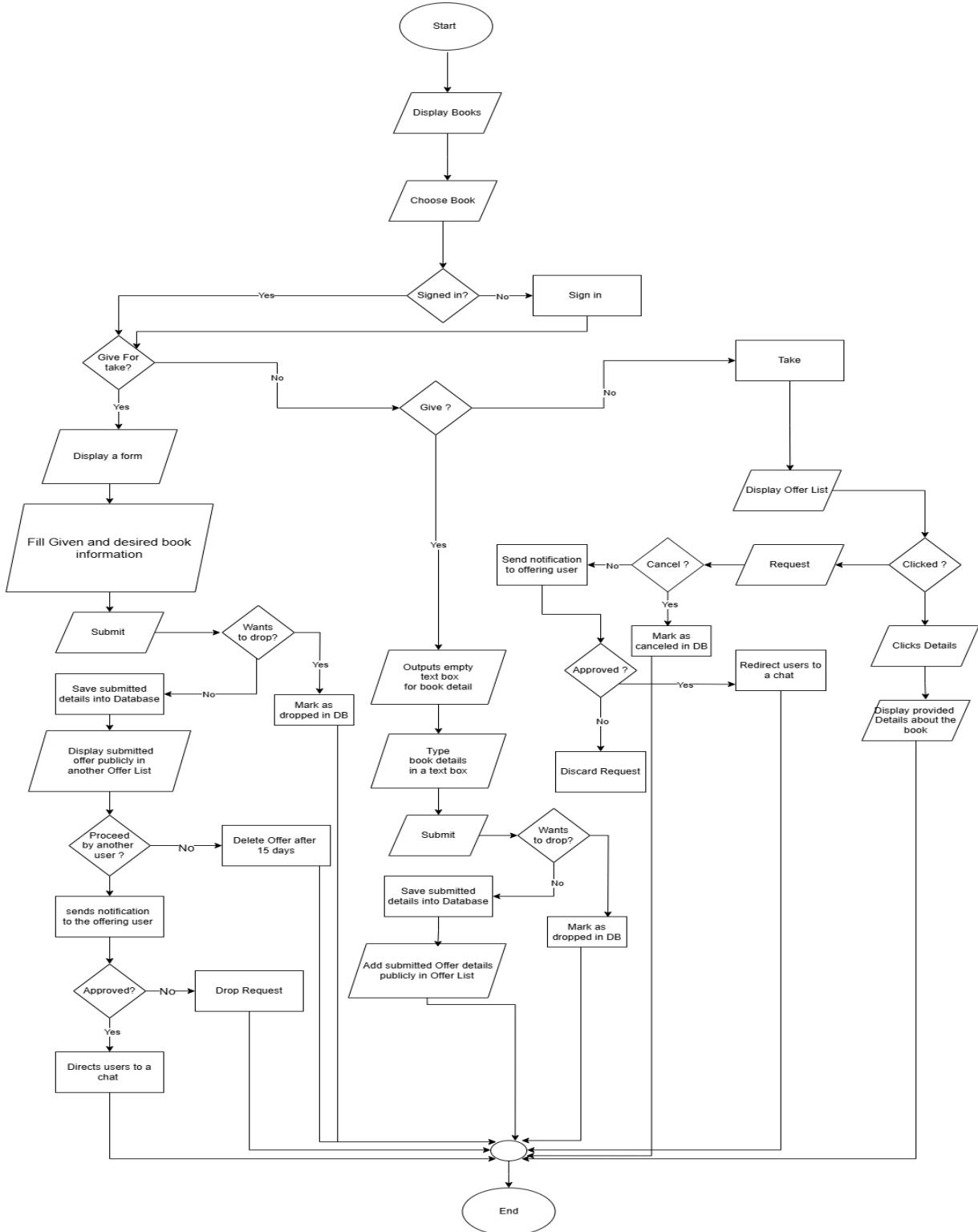


Figure 2.3 : Book Exchange FlowChart

8.4 Monitor Book Exchange F.C

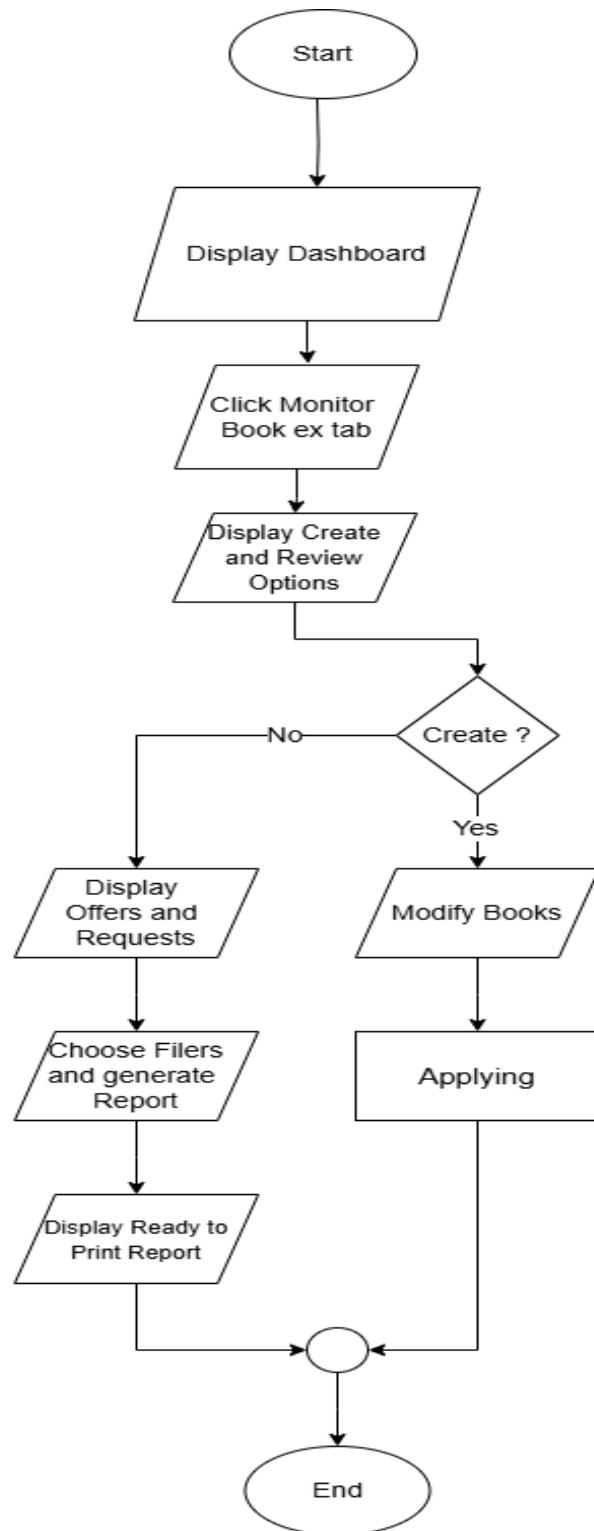


Figure 8.4 : Monitor Book Exchange FlowChart

8.5 Manage Academic Staff F.C

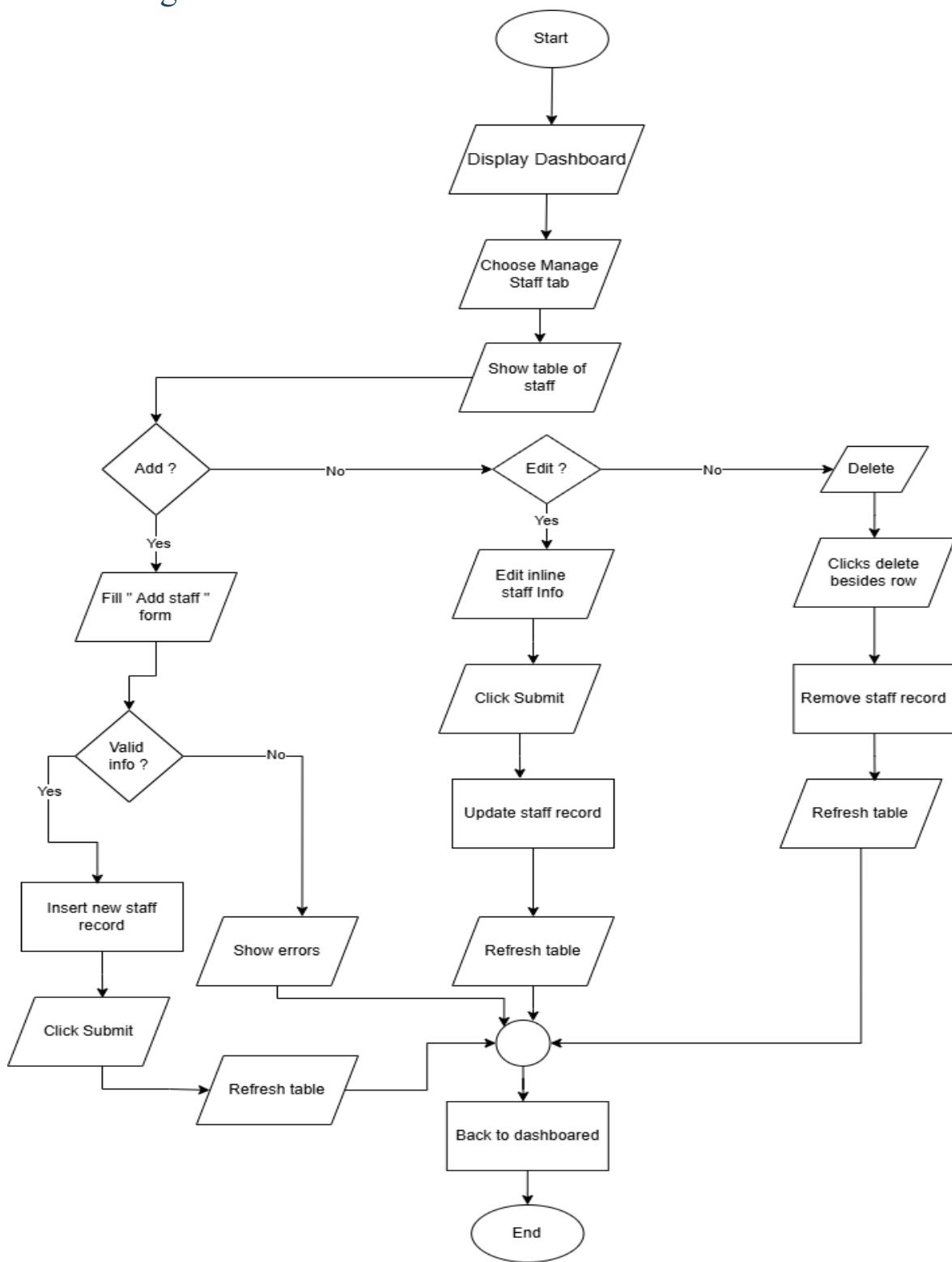


Figure 8.5 : Manage Academic Staff FlowChart

8.6 Manage Department F.C

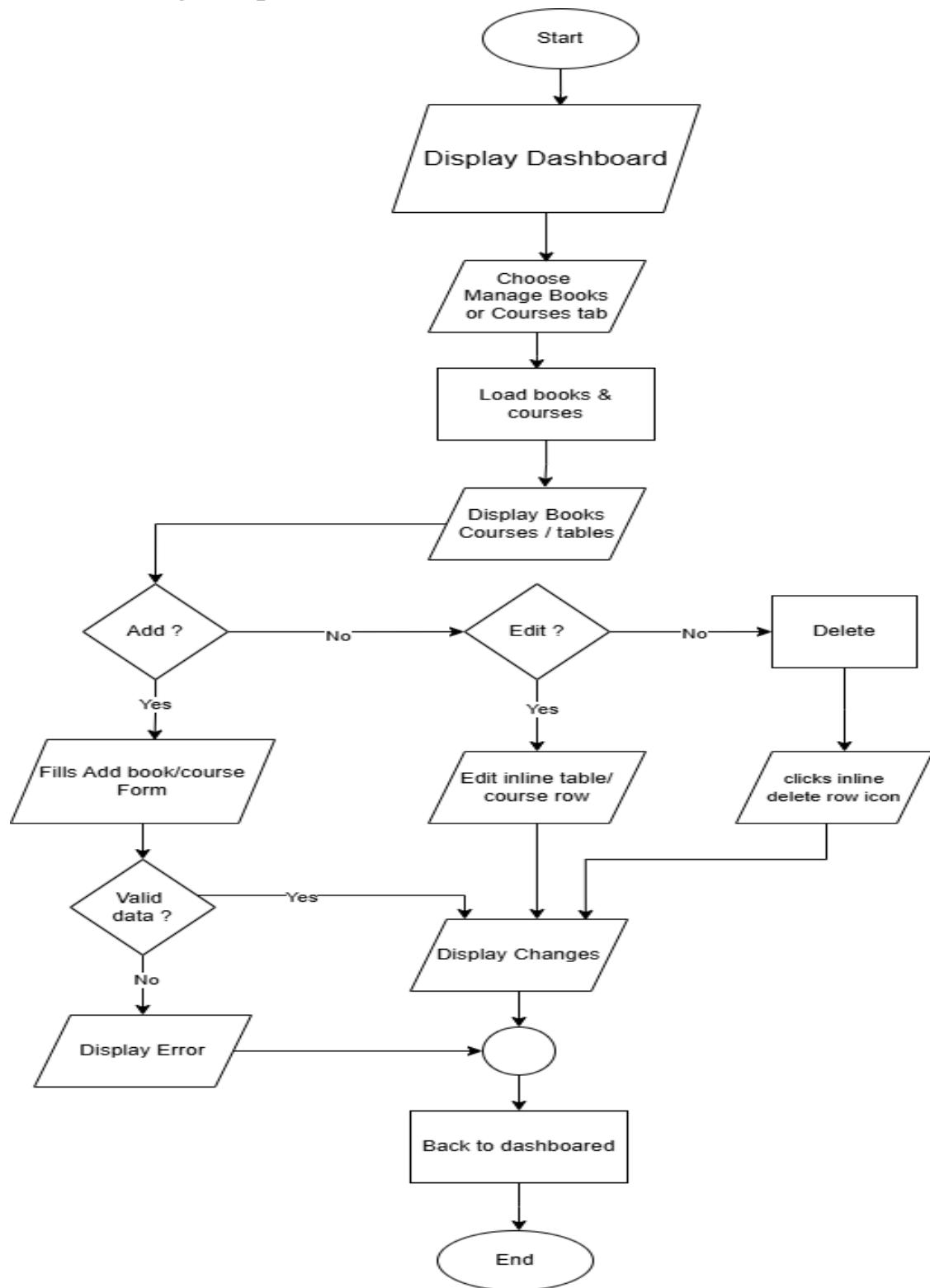


Figure 8.6 : Manage Departments FlowChart

9. Data Flow Diagram

A data-flow diagram is a way of representing a flow of data through a process or a system. The DFD also provides information about the outputs and inputs of each entity and the process itself.

9.1 Context-Level Diagram

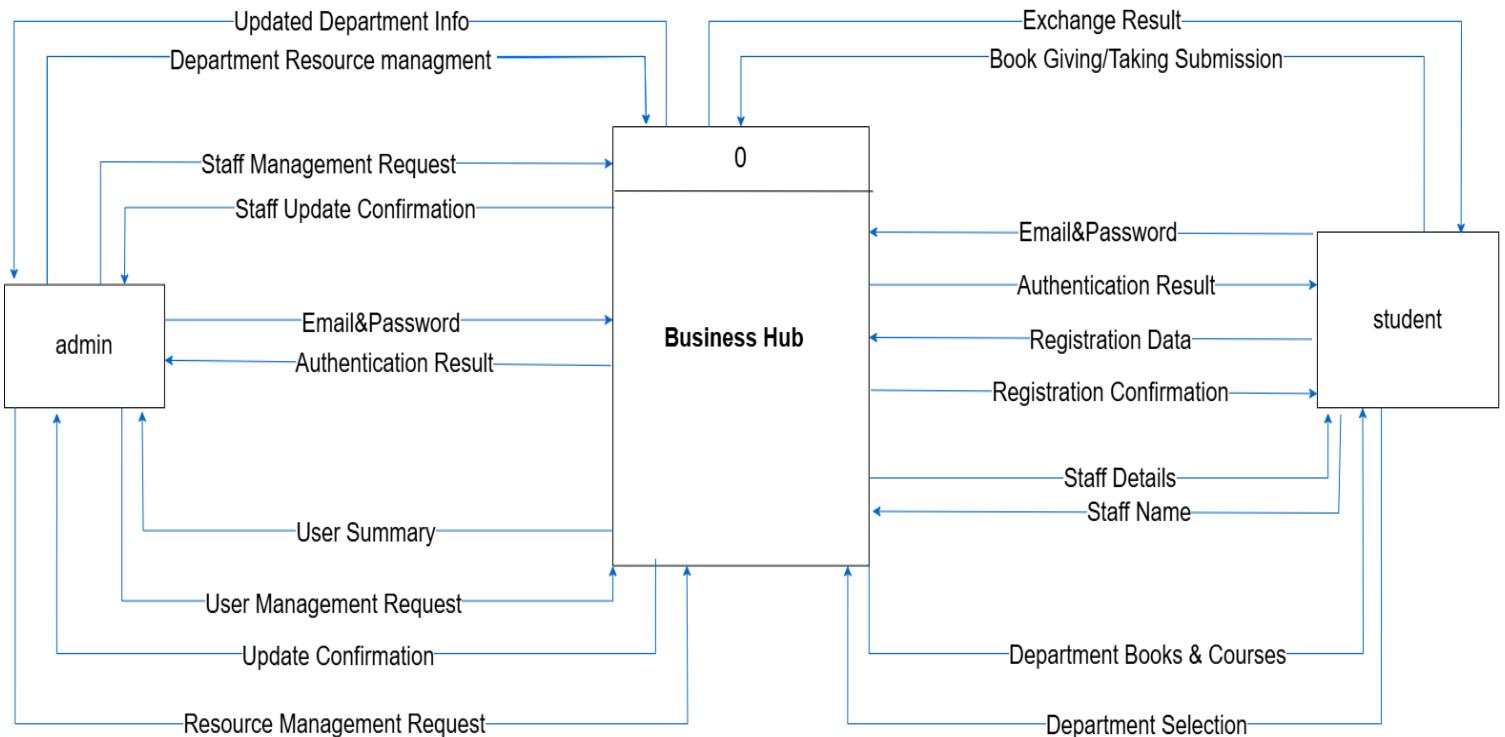


Figure 9.1 :Context Level Data Flow Diagram

9.2Zero-Level Diagram

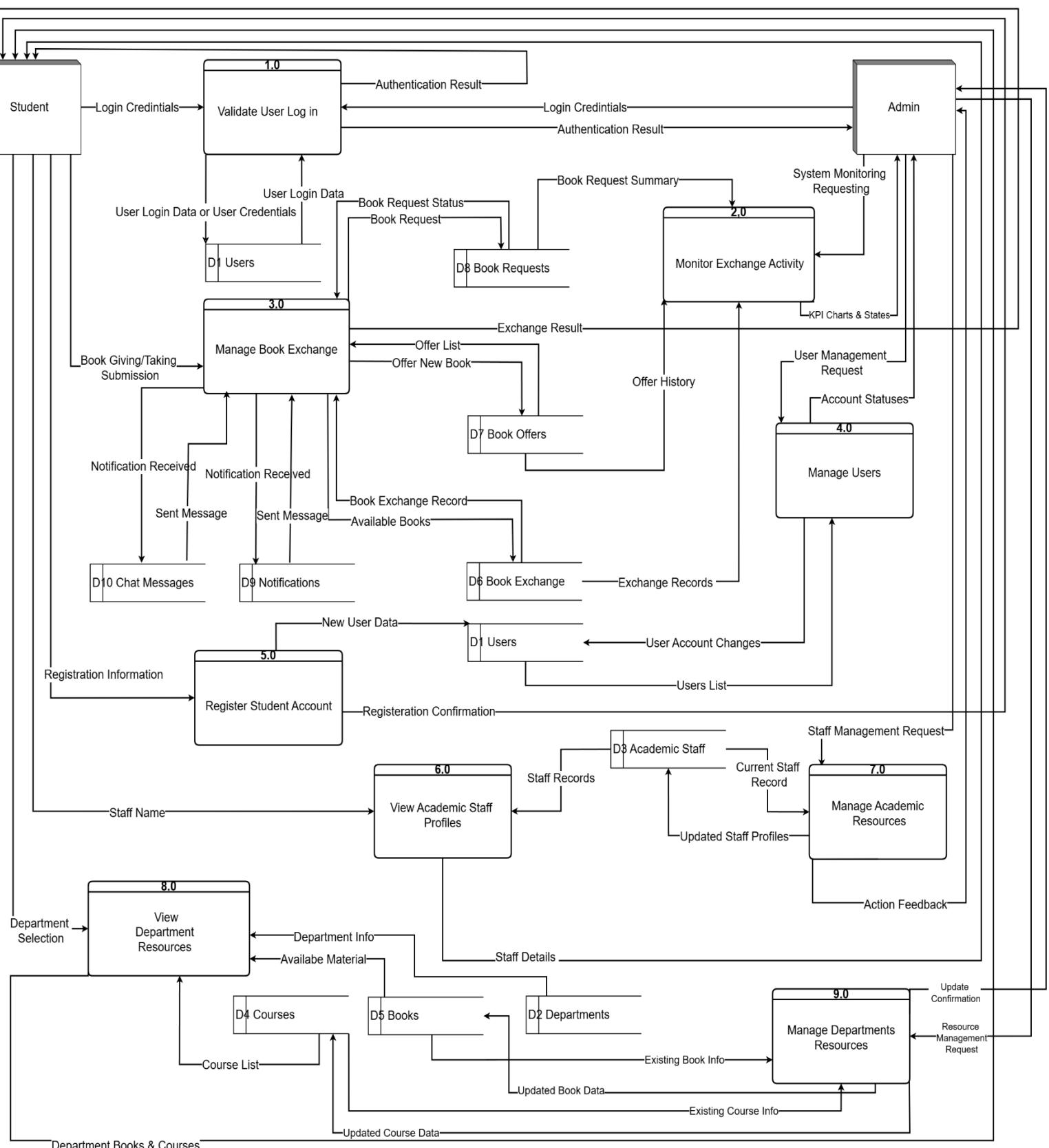


Figure 9.2 : Zero Level Data Flow Diagram

9.3 Child-Level Diagram

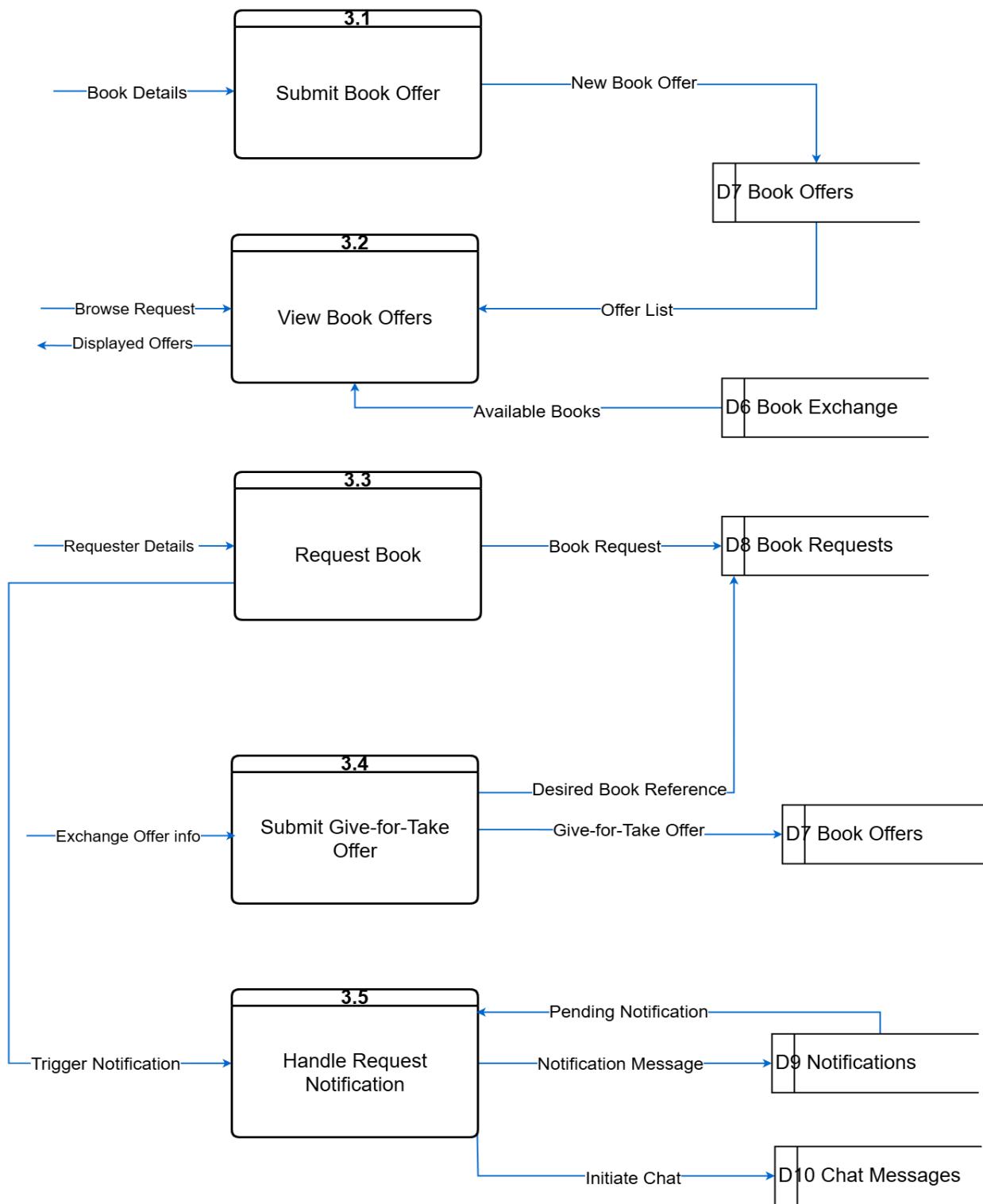


Figure 9.3 Manage Book Exchange Child Process

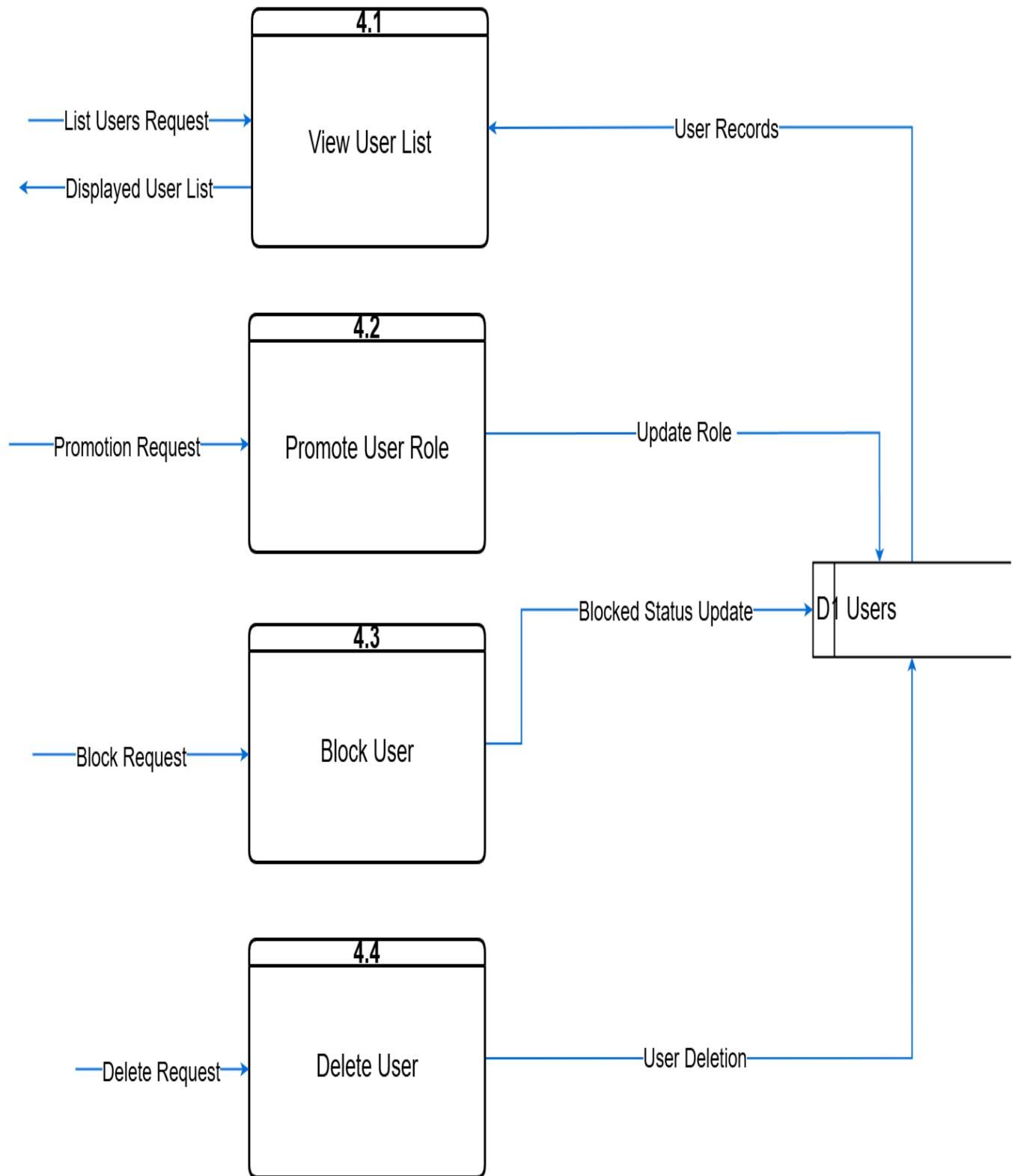


Figure 9.3 : Manage Users Child Level

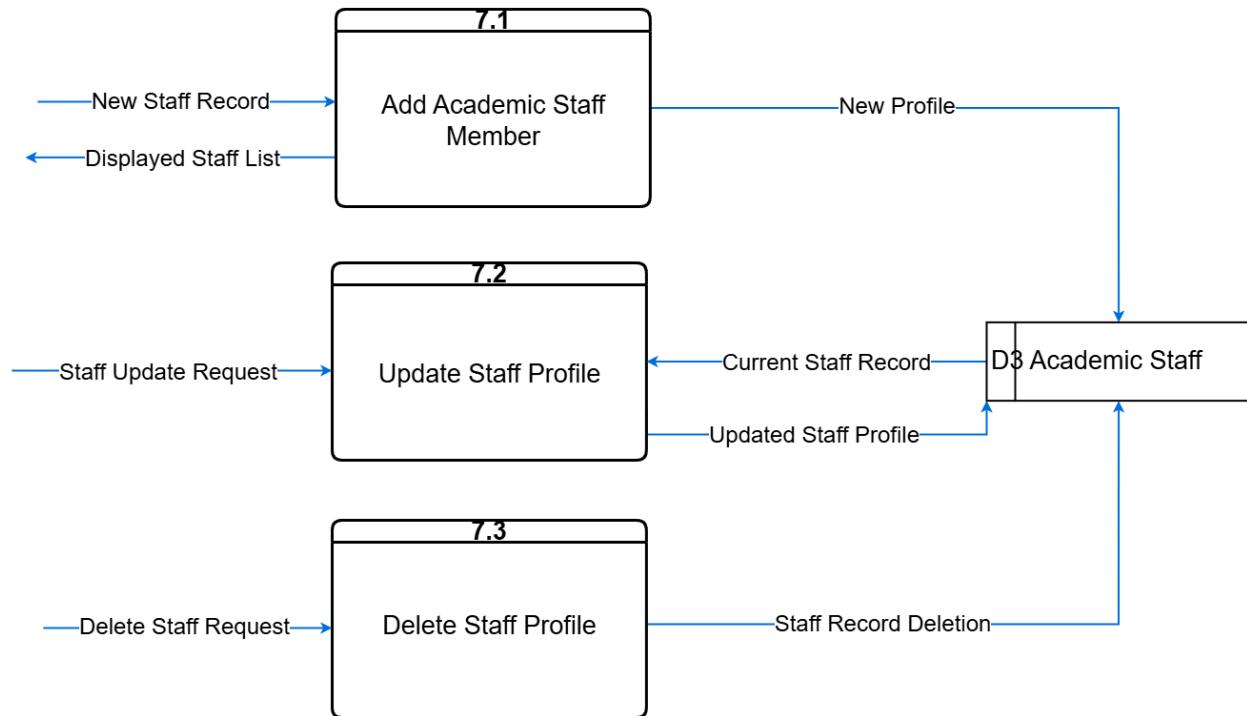


Figure 9.3 : Manage Academic Staff Child Level

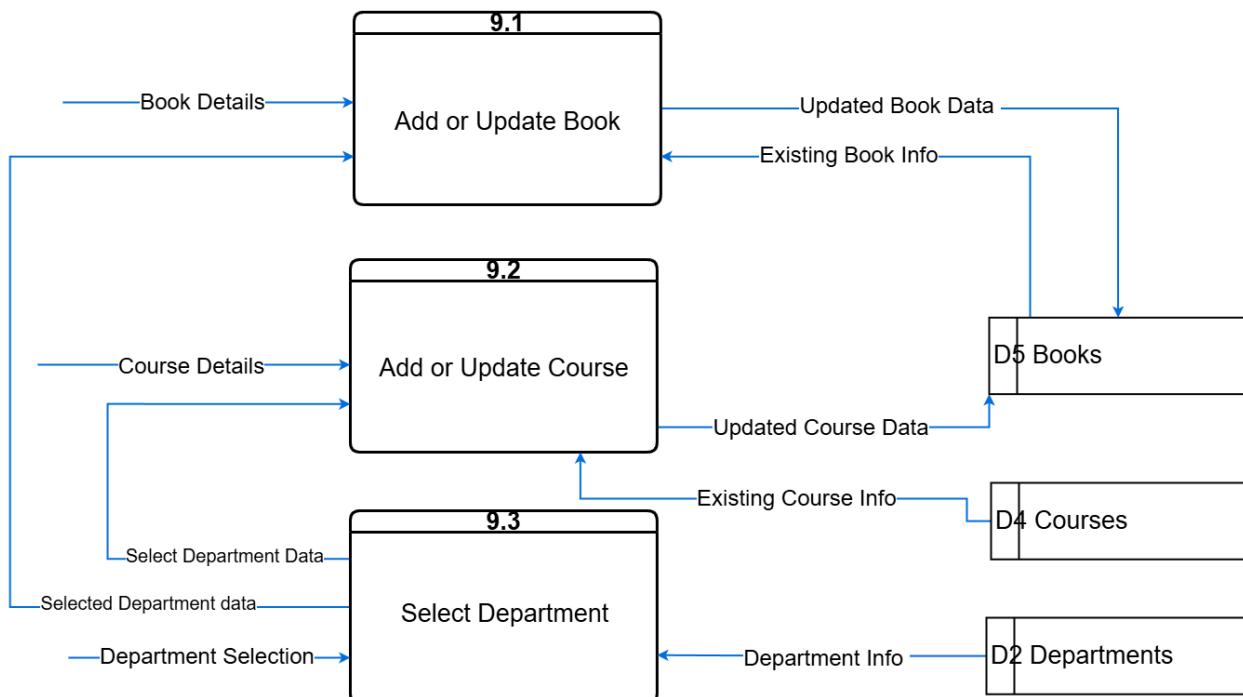
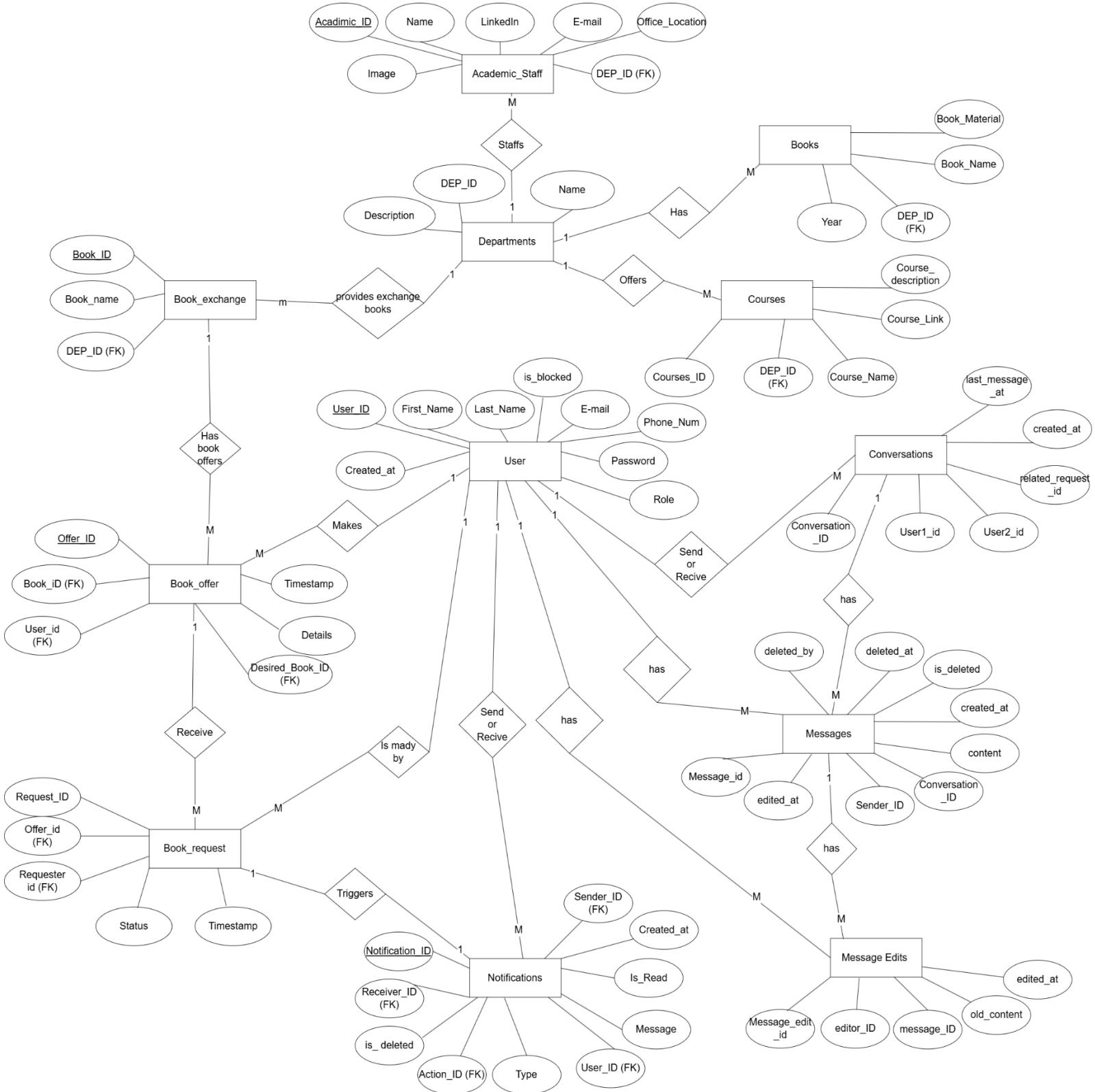


Figure 9.3 : Manage Departments Child Level

10. ER-Diagram



Business Hub – Entity Relationship Diagram (ERD) Explanation

Users: Stores all individuals registered on the platform, whether students, assistants, admins, or super admins. It includes personal data like first name, last name, email, phone number, role, password, and timestamps. Each user can create book offers, make requests, send and receive messages, and receive notifications. The table also tracks whether a user is blocked.

Departments: Represents the academic departments such as MIS, Marketing, or Accounting. Each department is linked to its related courses, books, and academic staff. It allows categorization and filtering across the platform.

Book_exchange: Contains the core list of books available for exchange. Each book has a name and belongs to a department. This table acts as the source pool for book offers created by users.

Book_offer: Logs the act of offering a book by a user. It links to the original book from book_exchange, includes the user who offered it, and stores optional details like condition or desired book (in case of swap offers). Offers can later be selected by other users to initiate a request.

Book_request: Tracks user requests to receive offered books. Each request is linked to the corresponding offer and requester. It stores the request status (such as pending, accepted, or rejected) and the timestamp of creation.

Notifications: Sends alerts to users when actions happen related to book requests or chat messages. Each notification includes sender, receiver, message, type, linked action, and read/deletion status to ensure users are informed in real time.

Conversations: Represents private chats between two users after a request is accepted. The conversation table stores both user IDs, the associated book request if any, and timestamps for tracking the latest interaction.

Messages: Captures individual chat messages exchanged within a conversation. Each message includes the sender, content, timestamp, and whether it was edited or deleted. This allows for maintaining proper communication logs.

Message edits: Logs the history of edited messages. For each edited message, this table stores the editor ID, time of edit, and original content to preserve transparency and allow message review.

Courses: Contains course information per department. Each course entry includes the name, description, and a link to access the material. This allows students to view structured academic content based on their major.

Books: Stores downloadable academic material not part of the exchange system. These books are uploaded by assistants or admins and categorized by department for easy access by students.

Academic staff: Lists all academic staff members. Each record includes their full name, email, office location, LinkedIn profile, and associated department. This supports the student-staff interaction module.

11. Data Dictionary

A Data Dictionary is a collection of names, definitions, and attributes about data elements that are being used or captured in a database, information system, or part of a research project.

Users Table

Column	Type	Description	Constraints
id	INT	Unique user identifier	PK (Not Null)
first name	VARCHAR	User's given name	(100)
last name	VARCHAR	User's family name	(100)
email	VARCHAR	Login email (must be unique)	(255) Unique
phone	VARCHAR	10-digit phone number	(20)
password	VARCHAR	Hashed password	(255)
role	ENUM	Account type / permission level	('user','super_admin')
created at	TIMESTAMP	Account creation timestamp	DEFAULT CURRENT_TIME
is_blocked	TINYINT(1) NOT NULL DEFAULT 0	Whether account is blocked	

Departments Table

Column	Type	Description	Constraints
id	INT(11)	Unique department identifier	PK, Not Null, AUTO_INCREMENT
department_name	VARCHAR(100)	Name of the department	Not Null
description	TEXT	Optional department description	

Book exchange Table

Column	Type	Description	Constraints
id	INT(11)	Unique book-exchange listing identifier	PK, Not Null, AUTO_INCREMENT
book_name	VARCHAR(255)	Title of the book	
image	VARCHAR(255)	URL to book cover image	
department_id	INT(11)	Department to which the book belongs	FK → departments(id)

Book offers Table

Column	Type	Description	Constraints
id	INT(11)	Unique offer identifier	PK, Not Null
book_id	INT(11) NOT NULL	book in book_exchange	FK → book_exchange(id)
user_id	INT(11) NOT NULL	User who is offering	FK → users(id)
desired_book_id	INT(11)	the desired book offer	FK → book_exchange(id)
details	TEXT	notes about the offer	
timestamp	DATETIME DEFAULT	When was posted	
status	ENUM('active','dropped','exchanged') NOT NULL DEFAULT 'active'	Current state of the offer	

Book Requests Table

Column	Type	Description	Constraints
id	INT	Unique request identifier	PK
offer_id	INT	Which offer is being requested	FK → book_offers.id
requester_id	INT	Who is requesting the book	FK → users.id
status	ENUM	Current request state	('pending','accepted','rejected')
timestamp	DATETIME	When the request was made	Current TIME

Books (Static) Table

Column	Type	Description	Constraints
id	INT	Unique static-book identifier	PK
department_id	INT	Which department this resource belongs to	FK → departments.id
book_name	VARCHAR	Title of the static learning material	(255)
book_material	TEXT	URL or path to the file	

Messages Table

Column	Type	Description	Constraints
id	INT(11)	Unique message identifier	PK, Not Null, AUTO_INCREMENT
conversation_id	INT(11)	References conversations.id	Not Null, FK → conversations(id)
sender_id	INT(11)	References sending user's id	Not Null, FK → users(id)
content	TEXT	Message text	Not Null
created_at	DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP	When message was sent	
edited_at	DATETIME	When message was last edited	
is_deleted	TINYINT(1) NOT NULL DEFAULT 0	Soft-delete flag	
deleted_at	DATETIME	When message was deleted	
deleted_by	INT(11)	References user who deleted it	FK → users(id)

Academic Staff Table

Column	Type	Description	Constraints
id	INT	Unique staff member identifier	PK (Not Null)
name	VARCHAR	Full name	(255)
email	VARCHAR	University email	(255)
linkedin	VARCHAR	Link to LinkedIn profile (optional)	(255)
image	TEXT	Path or URL to profile picture	
office_location	VARCHAR	Office room or building (e.g., "Main 4th Floor")	(255)
department_id	INT	Department the staff belongs to	FK → departments.id

Notification Table

Column	Type	Description	Constraints
id	INT(11)	Unique notification identifier	PK, Not Null, AUTO_INCREMENT
user_id	INT(11)	Actor user (who performed an action)	FK → users(id)
receiver_id	INT(11)	Recipient user of the notification	FK → users(id)
action_id	INT(11)	Related book_requests.id	FK → book_requests(id)
type	VARCHAR(100)	Notification type (e.g. 'book_request')	
message	TEXT	Text of the notification	
is_read	TINYINT(1) DEFAULT 0	Read flag	
is_deleted	TINYINT(1) NOT NULL DEFAULT 0	Soft-delete flag	
created_at	TIMESTAMP NOT NULL CURRENT_TIMESTAMP	When it was created	

Courses Table

Column	Type	Description	Constraints
id	INT	Unique course identifier	PK (Not Null)
department_id	INT	Which department offers this course	FK→ departments.id
course_name	VARCHAR	Course title	(255)
course_link	TEXT	URL or path to download/view course materials	
course_description	TEXT	Summary or syllabus description	

Message Edits Table

Column	Type	Description	Constraints
id	INT(11)	Unique edit identifier	PK, Not Null, AUTO_INCREMENT
message_id	INT(11)	References edited message id	Not Null, FK → messages(id)
editor_id	INT(11)	References user who edited	Not Null, FK → users(id)
old_content	TEXT	Original message text	Not Null
edited_at	DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP	When the edit occurred	

Conversation Table

Column	Type	Description	Constraints
id	INT(11)	Unique	PK, Not Null,
user1_id	INT(11)	One participant	Not Null, FK → users(id)
user2_id	INT(11)	The other participant	Not Null, FK → users(id)
related_request_id	INT(11)		FK → book_requests(id)
created_at	DATETIME NOT NULL CURRENT_TIMESTAMP	When chat started	
last_message_at	DATETIME	Timestamp of most message	Triggered by messages

12. Entity-Event Matrix

A CRUD matrix is a table showing the actions in an application containing SQL statement affecting parts of a database. CRUD Matrix is an excellent technique to identify the Tables in a Database to be used in any User interaction with a Web Site. CRUD means ‘Create, Read, Update or Delete’, and the CRUD Matrix identifies the Tables involved in any CRUD operation.

Entity \ Event	Register Account	Log in	OfferBook	Request Book	Give for Take	Browse Pages	Monitor Book Exchange	Manage Academic Staff	Manage Department	Manage Users	Send Message
Users	C	R								C R U D	
Academic_Staff						R		C R U D			
Departments									C R U D		
Courses						R					
Book_Exchange							C R U D				
Books						R					
Book_Offers			C		C		R				
Book_Requests				C			R				
Notifications				C							
Conversations										C /U	
Messages										C	
Message_Edits											

Notes on a few rows:

Register Account only creates a new Users record.

Log in reads the Users table to validate credentials.

Monitor Book Exchange is your “dashboard” view that reads Book_Exchange, Book_Offers, and Book_Requests.

Send Message creates a Messages row and updates the parent Conversations (e.g. last_message_at), and may also create a new conversation if none existed.

Chapter 5 : UI Manual

Business Hub

Join Business Hub — your access to premium services at JU Business School. We offer smart tools to help students succeed academically and professionally.

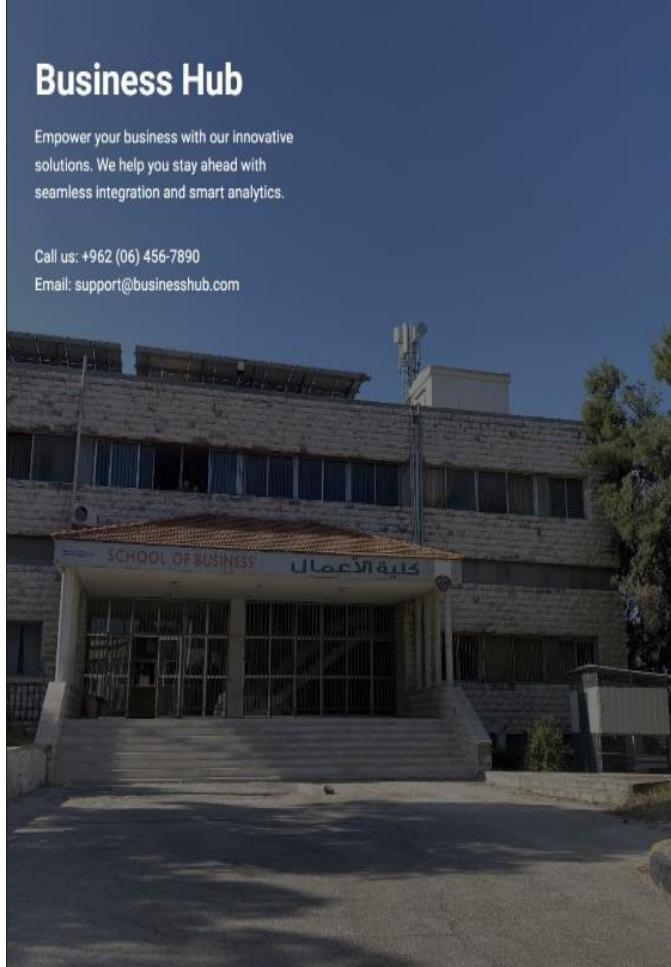
Call us: +962 (06) 456-7890
Email: support@businesshub.com

SCHOOL OF BUSINESS كلية الأعمال

Create Account

- 1
- 2 First Name
- 3 Last Name
- 4 Phone Number
- 5 Email Address
- 6 Password
- 7 Confirm Password
- 8 Sign Up
- 9 Already have an account? [Log In](#)

- The registration page : and it's contain the needed information to create an account .
- The First Name button : the user has to fill it .
- The Last Name button : the user has to fill it .
- The Phone Number button : the user has to fill it .
- The Email Address button : the user has to fill it .
- The Password button : the user has to fill it within the conditions and has the ability to view the password .
- The Confirm Password button : the user has to fill it and it needs to match the password that the user filled before conditions and has the ability to view the password .
- The Sign Up button : after the user fills the information above he/she suppose to click sign up to finish the process .
- The Log in button : if the user already has an account so it's faster for him/her to sign in with this button .



Business Hub

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1

Log In

2 Email address

3 Password

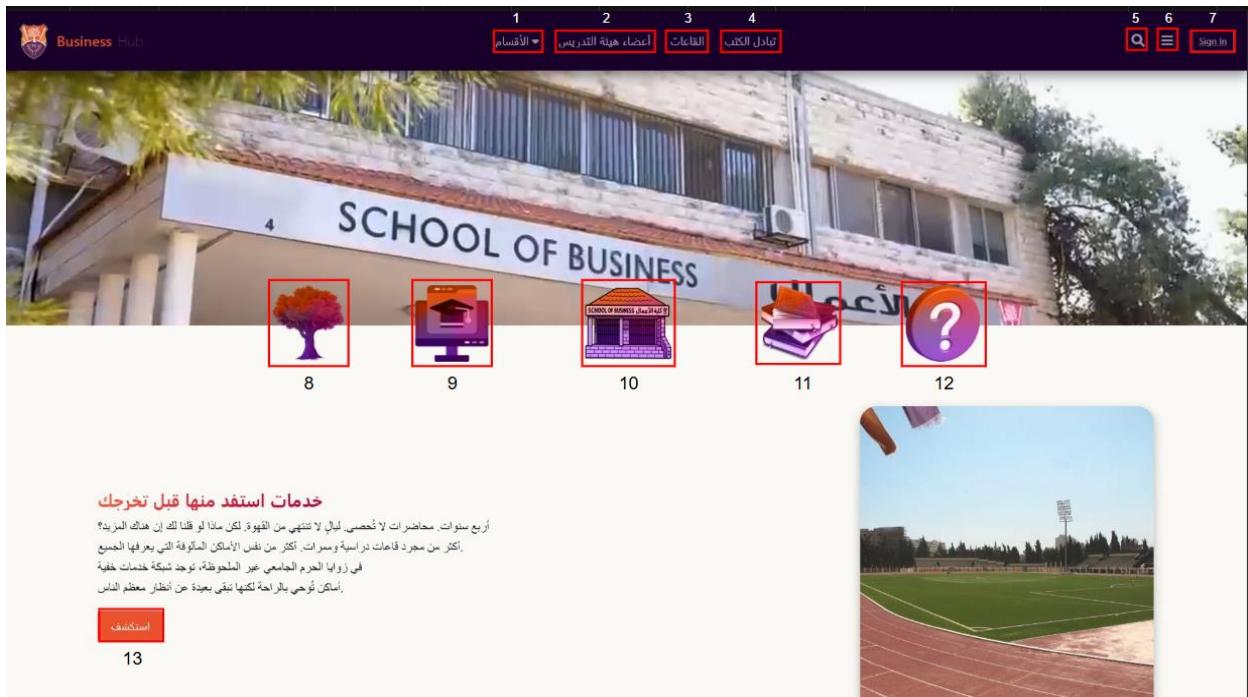
4 Remember me

5 Log In

6 [Forgot Password?](#)

7 [Don't have an account? Sign Up](#)

- 1) The Log In form : and it's contain the needed information to log in to your account .
- 2) The Email Address button : the user has to fill it .
- 3) The Password button : the user has to fill it within the conditions and has the ability to view the password .
- 4) The Remember me button : helps the user to auto fill the information .
- 5) The Log In button : after the user fills the information above he/she suppose to click log in to finish the process .
- 6) The Forgot Password button : helps users to create new password .
- 7) The Sign Up button : for users how don't have an account yet .



خدمات استفد منها قبل تخرجك

أربع سنوات محاضرات لا تُنْهَى. لِيالٍ لا تنتهي من الفُرْوَةِ لكن مَاذا لو قلنا لك إن هنالك المزيد؟
أكثر من مجرد قاعات دراسية ومسارات، أكثر من نفس الأشخاص المسؤولون التي يعرّفها الجميع.
في زورباجن الجامعي غير المحدودة، توفر شبكة خدمات خفية.
لأنكِ تُؤْمِنِي بالراحة لكتها يبقى بعيدة عن انتظار معظم الناس.

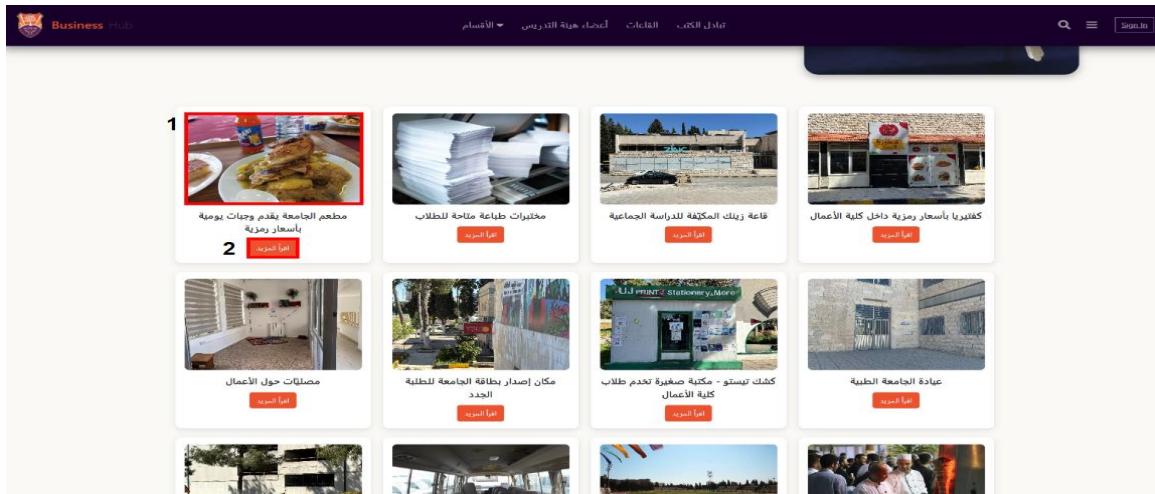
[استكمل](#)

13

- 1- The (الأقسام) button : once the user hovers , it will show him/her the 7 majors .
- 2- The (أعضاء هيئة التدريس) button:once the user clicks , it will take him/her to the academic staff page .
- 3- The (قاعات) button : once the user clicks , it will take him/her to the halls page .
- 4- The (تبادل الكتب) button : once the user clicks , it will take him/her to the book exchange page .
- 5- The Search button : allows the user to search for anything in the website .
- 6- The Categories button : once the user clicks , it will slide down to show the user the services that we offer .
- 7- The Sign In button : applies the user to sign in and use the other features .
- 8- Once the user hovers it will show him/her the 7 majors , and take the user to the tree plan of his/her major .
- 9- Once the user hovers it will show him/her the 7 majors , and take the user to the courses supported for his/her major .
- 10- Once the user clicks , it will take him/her to the halls page .
- 11- Once the user clicks , it will take him/her to the book exchange page .

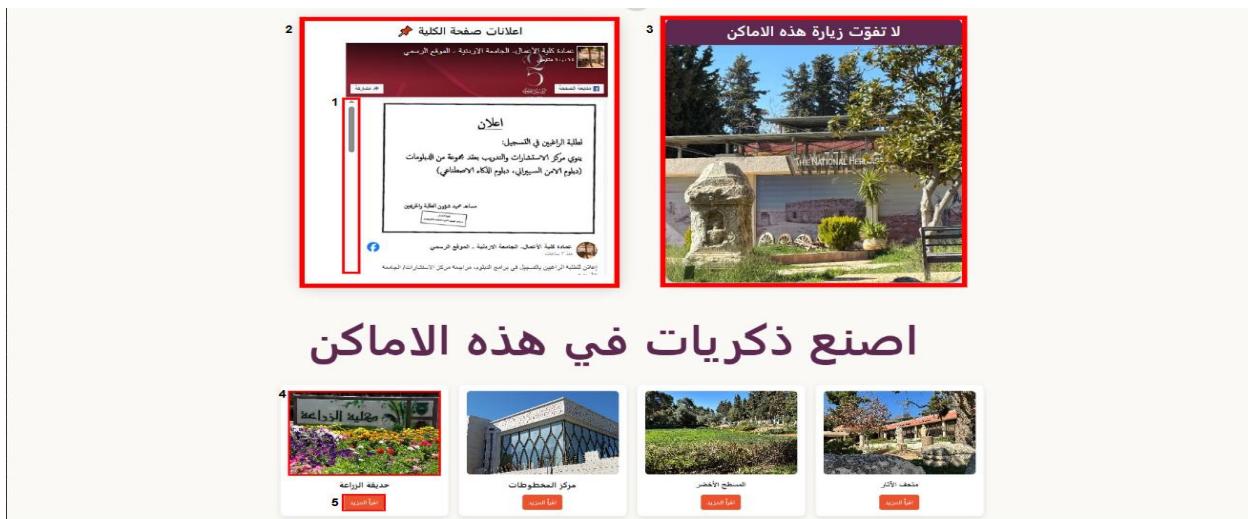
12- Once the user clicks , it will pop up for him/her and shows the FAQs .

13- The (استكشف) button : once the user clicks , it will take him/her to the Services Nearby .



1- Slides of photos : once the user clicks , it will pop up and apply him/her to view the rest of the photos .

2- The (اقرأ المزيد) button : once the user clicks , it will give him/her a full description .



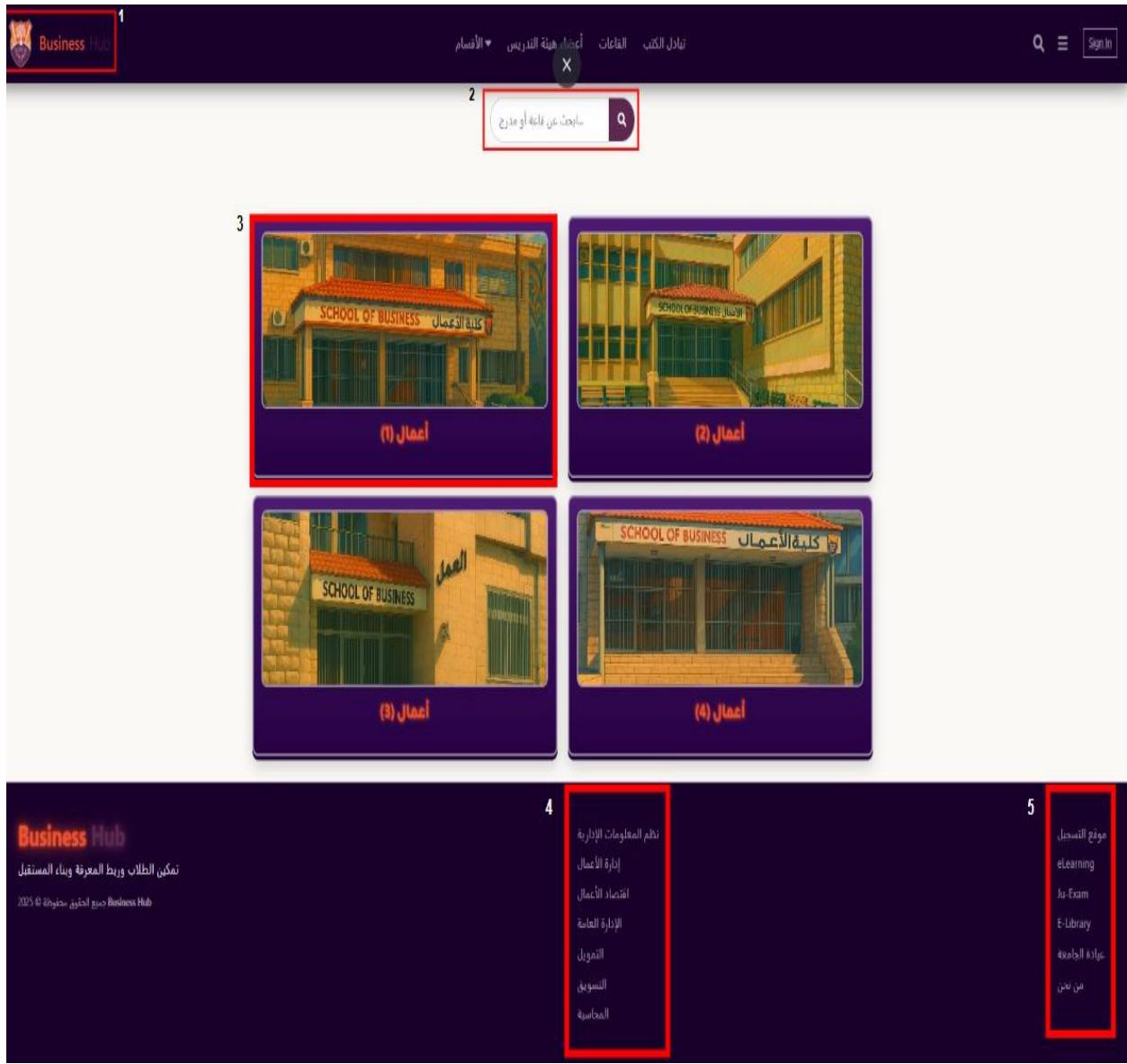
1- The Scroll Down feature .

2- Once the user clicks , it will take him/her to the main page .

3- Once the user clicks , it will take him/her to the fun places .

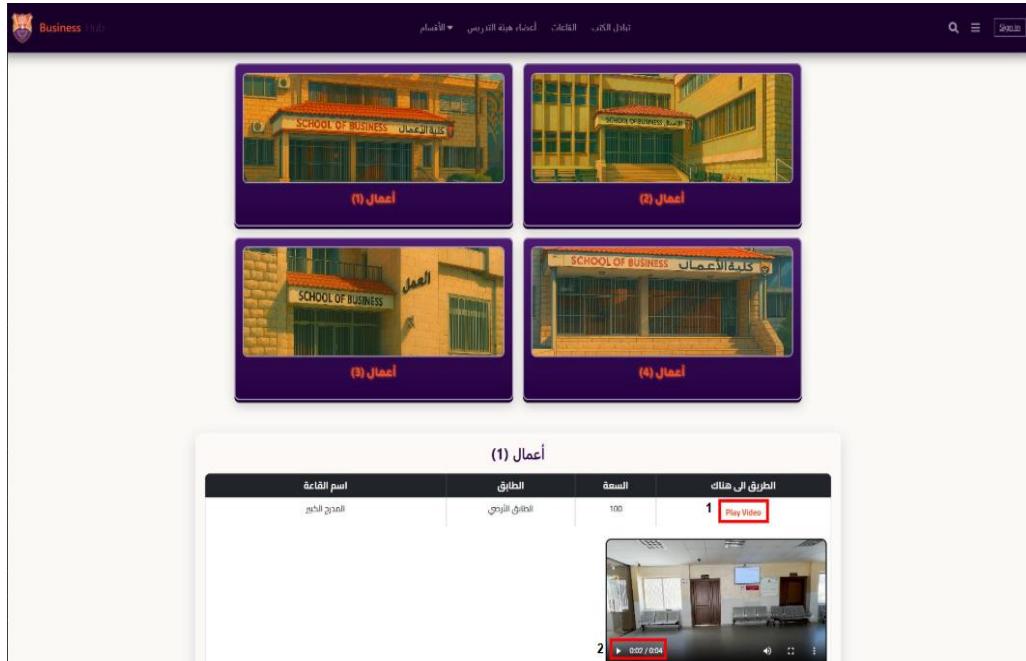
4- Slides of photos : once the user clicks , it will pop up and apply him/her to view the rest of the photos .

5- The (اقرأ المزيد) button : once the user clicks , it will give him/her a full description .



- 1- The Business Hub Logo : once the user clicks the logo , it will take him/her back to the main page .
- 2- The Search bar : the user is able to search for the hall that he/she is looking for .
- 3- Once the hovers on the card it will play a video for the school from the outside , and once he/she clicks it will show him/her a list of halls that the school has .
- 4- Once the user clicks on any of these majors , it will take the user to the chosen major page.

- Once the user click on any of these sites , it will take the user to the chosen site main page



- The Play video : once the user clicks . it will show him/her a video of the hall location .
- It applies the user to stop and replay the video .



- 1- The (x) button : to close the category bar .
 - 2- A list of the features that the website provide for the user , so when the user clicks on any feature , it will take him/her to the chosen feature page .

The screenshot shows the Business Hub website's interface. At the top, there are navigation links in Arabic: Business Hub, الأقسام (Categories), القاعات (Rooms), قبائل الكتب (Book Tribes), أسماء هيئة التدريس (Teachers' Names), and الأقسام (Categories). On the far right are search and sign-in icons. The main title "حساب المعدل التراكمي" (Cumulative Average Calculator) is displayed prominently. Below it is a sub-section titled "بيانات المعدل التراكمي من 4 الجامعات الأردنية" (Data for the cumulative average from 4 Jordanian universities). A large input field for entering marks is shown, with a note: "يُدخل هنا حساب المعدل التراكمي قبل الفصل الدراسي". Below this is a section for entering the number of hours per week and the weekly average mark. A note states: "يشمل كل مواد الدوران ثم اجتنابها بفتح رابط المواد التي حصلت عليها". At the bottom, there is a table for calculating the cumulative average, with columns for the subject name, weekly average, weekly hours, grade, and cumulative average. The table shows a sample entry: "اللغة العربية" (Arabic Language) with a weekly average of 3 and weekly hours of 3, resulting in a cumulative average of 1. There are also social media sharing buttons at the bottom.

- 1- The user suppose to fill the field with the right numbers .
 - 2- The user suppose to fill the field with the right numbers .
 - 3- The user suppose to fill the fields with the right symbols and numbers .

The image displays a 2x2 grid of infographics from a Business Hub platform. Each infographic is titled 'نظم المعلومات الإدارية' (Administrative Information Systems) and is associated with a specific year: the first year, the second year, the third year, and the fourth year. The infographics are presented as tree diagrams with green trunks and branches, and red circular nodes representing different concepts or components. The first year's diagram has one node highlighted with a red border. The other three years' diagrams have all their nodes in red.

- العام الأول:** نظم المعلومات الإدارية العام الأول. A tree diagram with 8 red nodes. One node at the top left is highlighted with a red border. Other nodes include: مدخلات, معالجة, خروج, وظائف, نموذج, نظرية, وسائل, وعمليات.
- العام الثاني:** نظم المعلومات الإدارية العام الثاني. A tree diagram with 8 red nodes. Nodes include: نموذج, نظرية, وسائل, وعمليات, نظم, نظرية, نموذج, وظائف.
- العام الثالث:** نظم المعلومات الإدارية العام الثالث. A tree diagram with 12 red nodes. Nodes include: نموذج, نظرية, وسائل, وعمليات, نظم, نظرية, نموذج, وظائف, نموذج, نظرية, وسائل, وعمليات.
- العام الرابع:** نظم المعلومات الإدارية العام الرابع. A tree diagram with 9 red nodes. Nodes include: نموذج, نظرية, وسائل, وعمليات, نظم, نظرية, نموذج, وظائف, نموذج.

- 1- Once the user clicks on the material , it will take him/her to the book's link and other things .

The screenshot shows a dark-themed interface. At the top, there is a navigation bar with the Business Hub logo, search, and login options. Below the navigation is a large tree icon containing several course links. A red box highlights the 'المواد الأخرى' (Other Materials) button at the bottom of the tree icon. To the right of the tree, there is a sidebar with various course categories and their descriptions.

اسم الدورة	رقم الدورة	وصف الدورة
مقدمة في نظر المعلومات	اضغط هنا	تعريف، أساسيات نظام المعلومات في مكان العمل
تحليل البيانات	اضغط هنا	أساسيات تحليل البيانات باستخدام أدوات جوجل
أسس برمجيات الحاسوب	اضغط هنا	مقدمة في المبنية بلغة باتون، برمجة منطقية
ريادة الأعمال	اضغط هنا	مقدمة في الريادة، رأس المال، إدارة تابع

Business Hub
لتحقيق النطاق وتنمية المعرفة وبناء المستقبل
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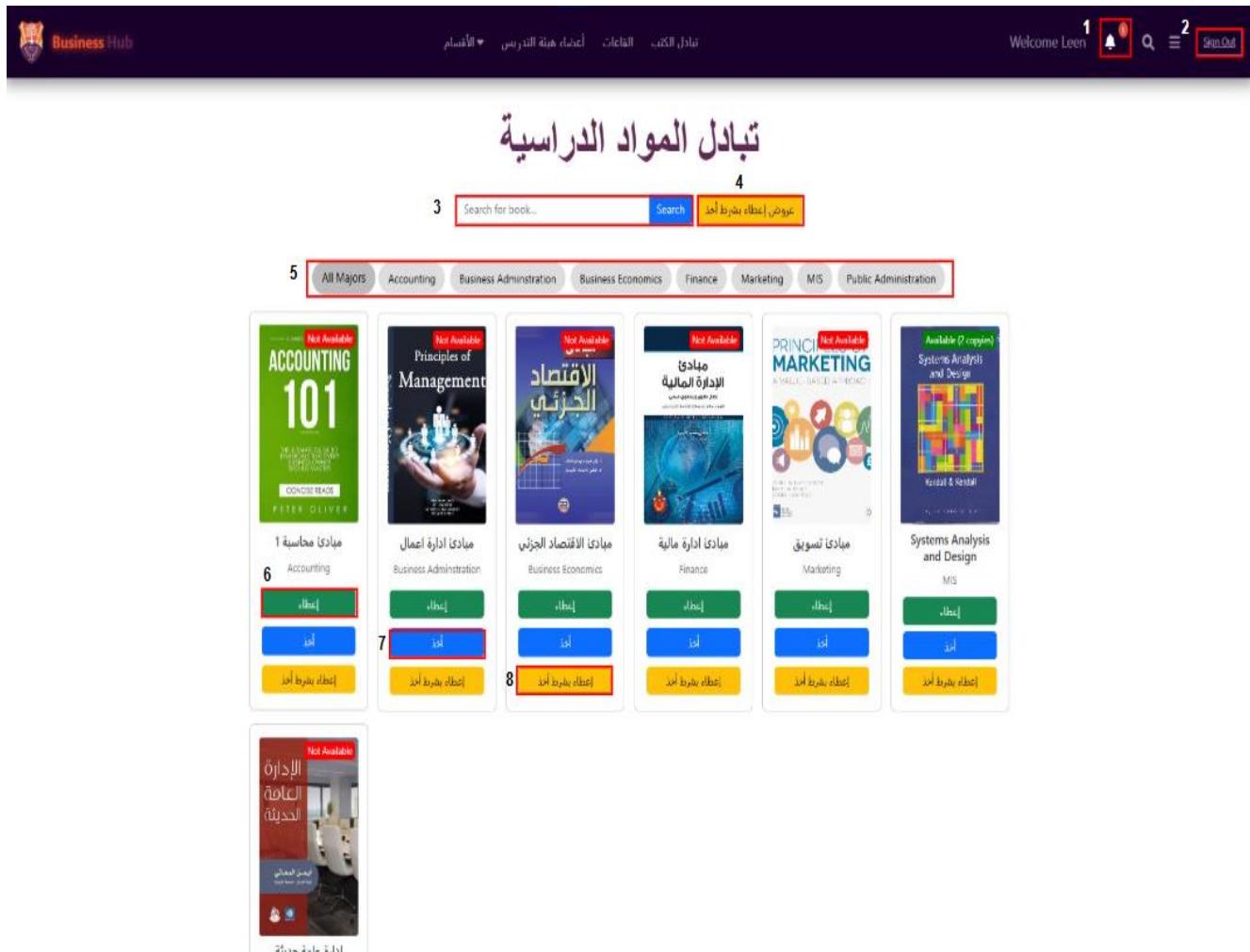
جامعة الملك عبد الله للعلوم والتقنية
جامعة الملك عبد الله للعلوم والتقنية

- 1- The (المواد الأخرى) button : enable the user to choose another material that's not included in the tree .
- 2- The (اضغط هنا) button : once the user clicks it , it will take him/her to the course link .

The screenshot shows a list of academic staff profiles. At the top, there is a search bar and a dropdown menu. Below the search bar, the title 'ال TEAM الأكاديمي' is displayed. A red box highlights the 'الاسم' (Name) column header. The table lists 10 staff members with columns for name, photo, email, department, and designation.

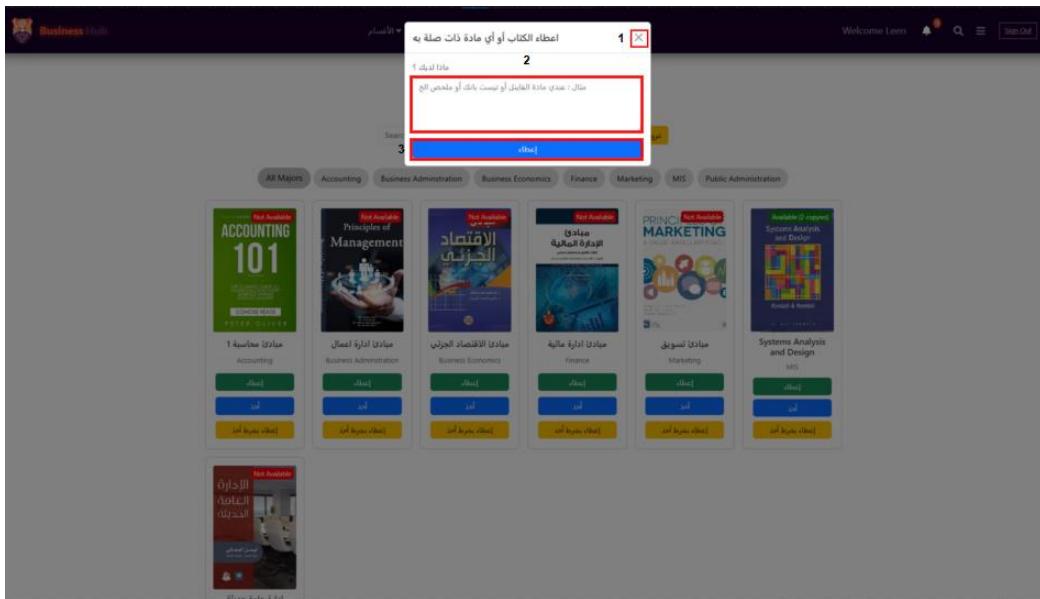
الصورة	الاسم	البريد الإلكتروني	موقع المكتب	الشخص
	سهام زيد الزبيدي	s.zaid@ju.edu.jo	مبنى 3 الطابق الأرضي	مديرة
	محمود محمد مطرفة	m.matarfa@ju.edu.jo	مبنى 4 الطابق الثاني	MIS
	هاجر باسم محمود	h.mousa@ju.edu.jo	مبنى 4 الطابق الأرضي	MIS
	محمود علي الدالاني	m.alalani@ju.edu.jo	مبنى 4 الطابق الأرضي	MIS
	ليلى علي هشيم	l.heshim@ju.edu.jo	مبنى 1 الطابق الأرضي	MIS
	هانى حاتم الصبور	dmsour@ju.edu.jo	مبنى 4 الطابق الثاني	Marketing
	زياد محمد عبيدات	z.obeida@ju.edu.jo	مبنى 4 الطابق الثاني	Marketing
	راضي محمد الدسوقي	r.dessouky@ju.edu.jo	مبنى 4 الطابق الثاني	Marketing
	آمنة عازر محمود	a.alshaway@ju.edu.jo	مبنى 3 الطابق الأرضي	Marketing
	فرج حملق شيشان	f.shishani@ju.edu.jo	مبنى 3 الطابق الأرضي	Marketing
	دانا كوكهين	Dana.Kokeen@ju.edu.jo	مبنى 3 الطابق الأرضي	Marketing

- 1- The search bar : enable the user to search for the specific staff or major .
- 2- The drop down list : once the user clicks , it enables the user to choose a specific major.
- 3- Once the user clicks the photo , it will pop up for better view .
- 4- Once the user clicks on the name it will take him/her to the staff main page in the university website .
- 5- Once the user clicks , it will take him/her to the main teams email for the staff .



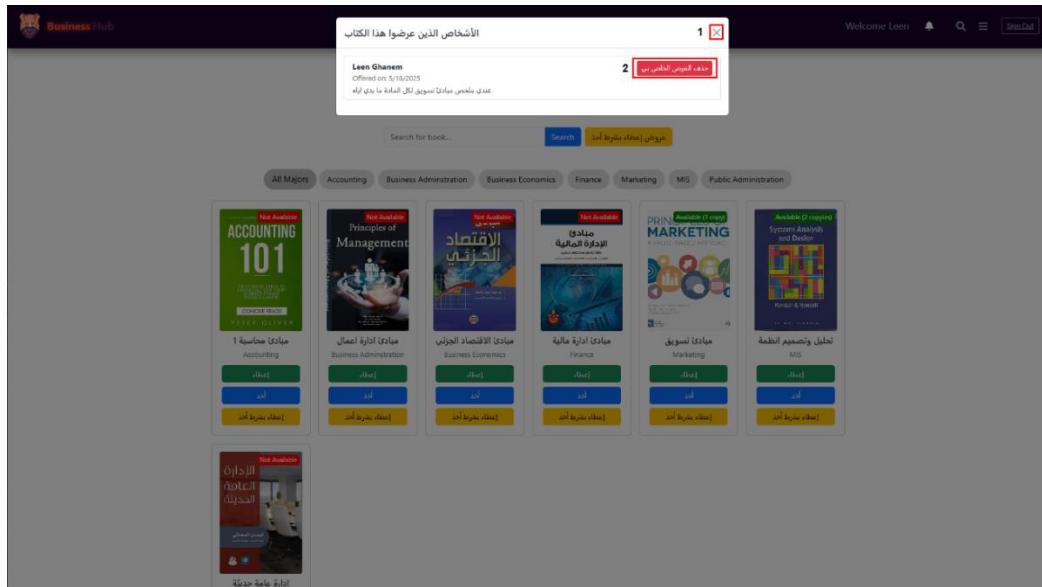
- 1- The notification center .
- 2- The Sign out button .
- 3- The search bar : enable the user to search for specific book .

- 4- The (عرض إعطاء مقابل أخذ) button : once the user clicks , it will show him/her in a panel a list of books for the exchange .
- 5- The majors buttons : filters the books based on the major that the user chose .
- 6- The (إعطاء) button : enables the user to put books for give .
- 7- The (أخذ) button : enable the user to take books from the giving .
- 8- The (إعطاء مقابل أخذ) button : enables users to exchange books between each other .

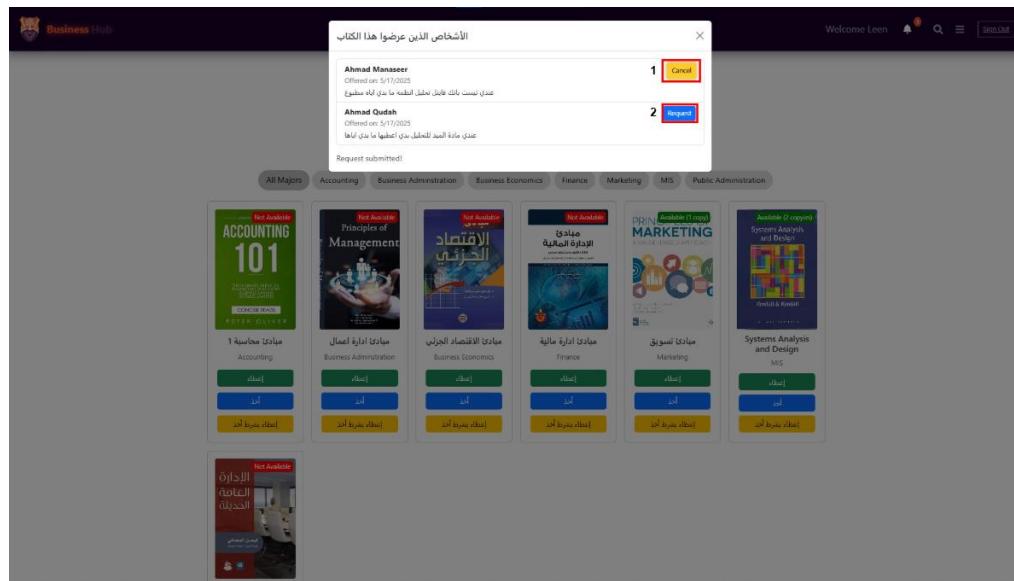


- 1- The (x) button : Once the user clicks it , it will close the panel .
- 2- The textbox : enables the user to fill the material details .

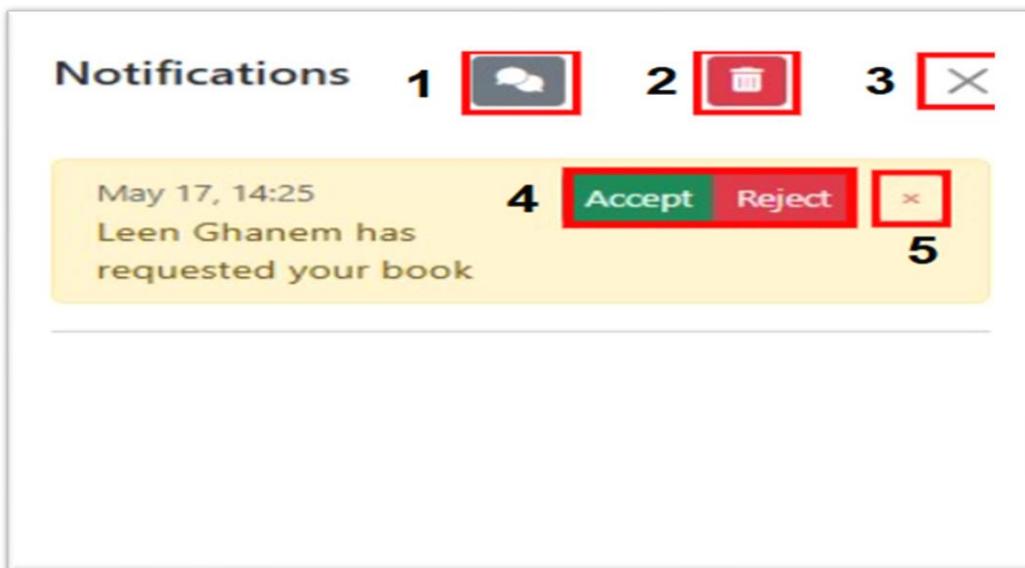
- 3- The (إعطاء) button : once the user clicks it , the book will be offered for other users .



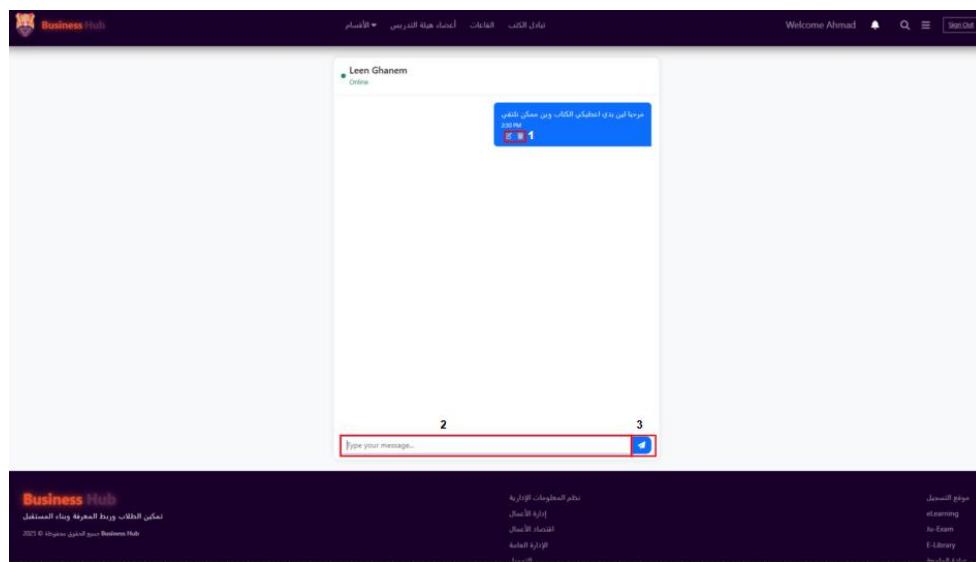
- 1- The (x) button : Once the user clicks it , it will close the panel .
- 2- The حذف العرض الخاص بي (Delete offer) button : enables the giver to cancel the material offer .



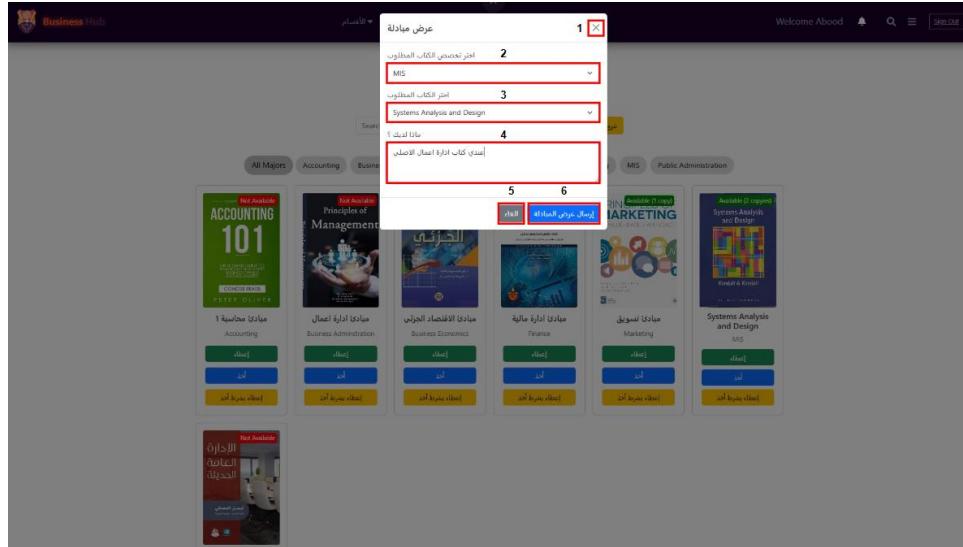
- 1- The (cancel) button : enables the user who wants to take a book to cancel the request .
- 2- The (Request) button : enables the user to make a request for the book that he/she needs .



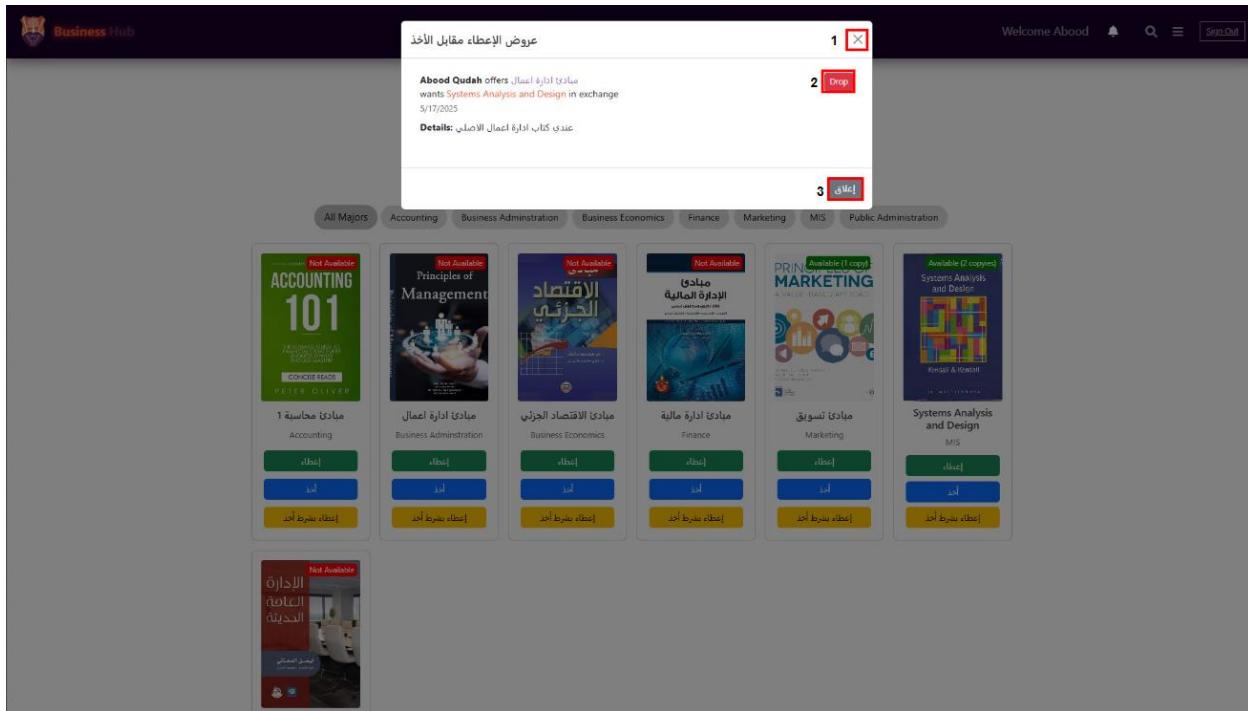
- 1- The chat button : enables a chat between the giver and the taker .
- 2- The delete button : enables the giver to delete all the notifications .
- 3- The (x) button : Once the user clicks it , it will close the panel .
- 4- The Accept/Reject buttons : enable the giver to choose the action .
- 5- The (x) button : Once the giver clicks it , it will remove the request .



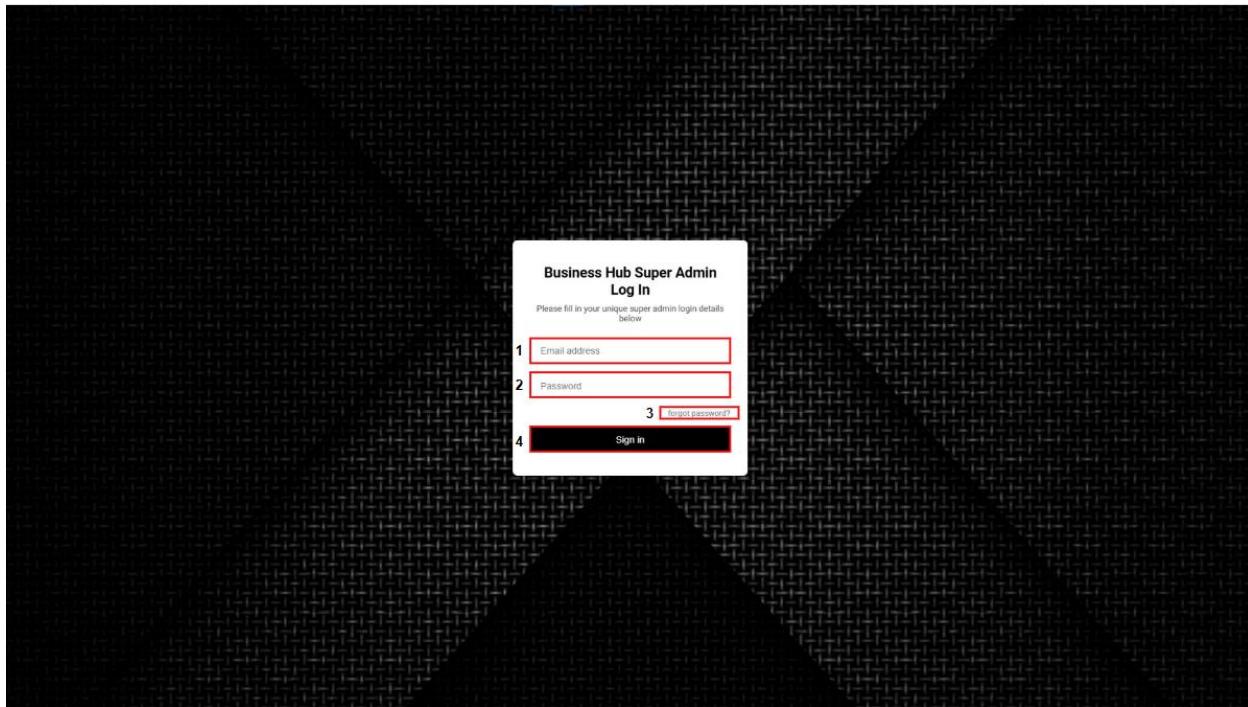
- 1- The Edit/Delete buttons : enable the sender to modify or delete the messages that has already sent .
- 2- The textbox : enable the user to write a message inside it .
- 3- The Send button : enables the user to send the message that he/she has been wrote .



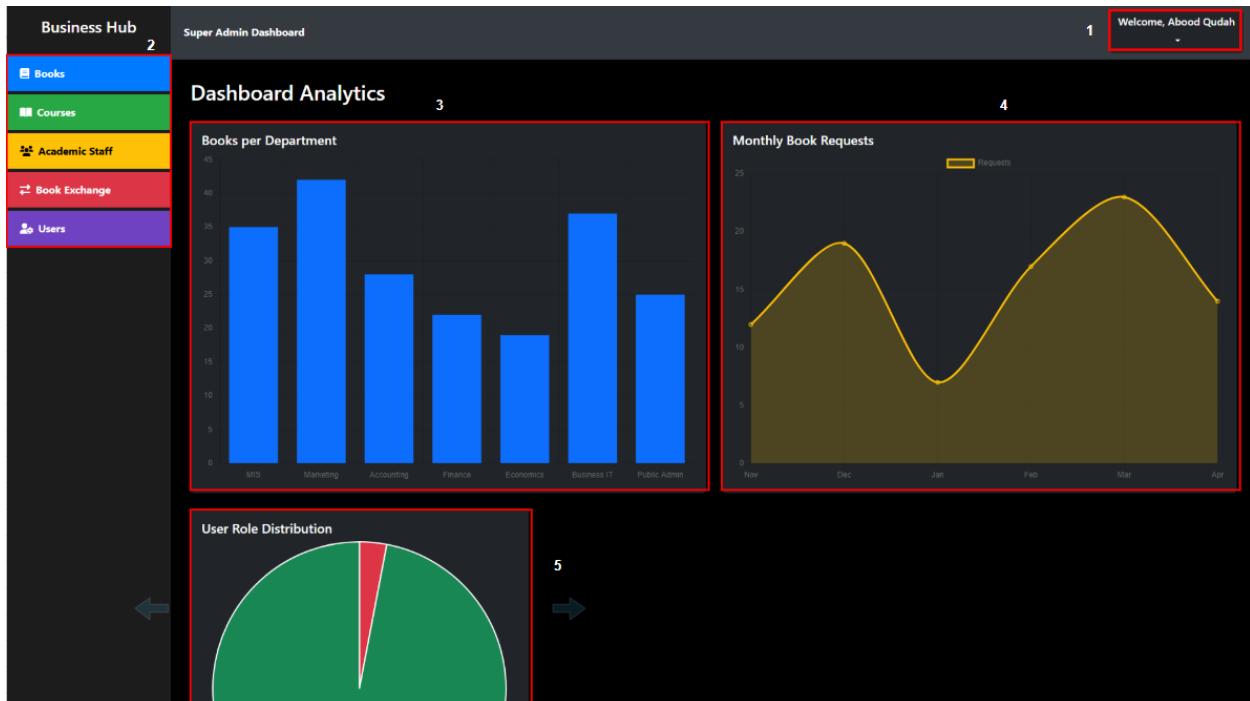
- 1- The (x) button : Once the user clicks it , it will close the panel .
- 2- The drop down list : enables the user to choose the material main major .
- 3- The drop down list : enables the user to choose the needed book for the exchange .
- 4- The textbox : enable the user to fill the material details .
- 5- The (الغاء) button : cancels the process .
- 6- The إرسال عرض المبادلة (Send Exchange Offer) button : enables the user to submit the offer .



- 1- The (x) button : Once the user clicks it , it will close the panel .
- 2- The Drop button : the user can cancel the offer that has been submitted once he/she clicks on it .
- 3- The (إغلاق) button : once the user clicks , it will close the panel .



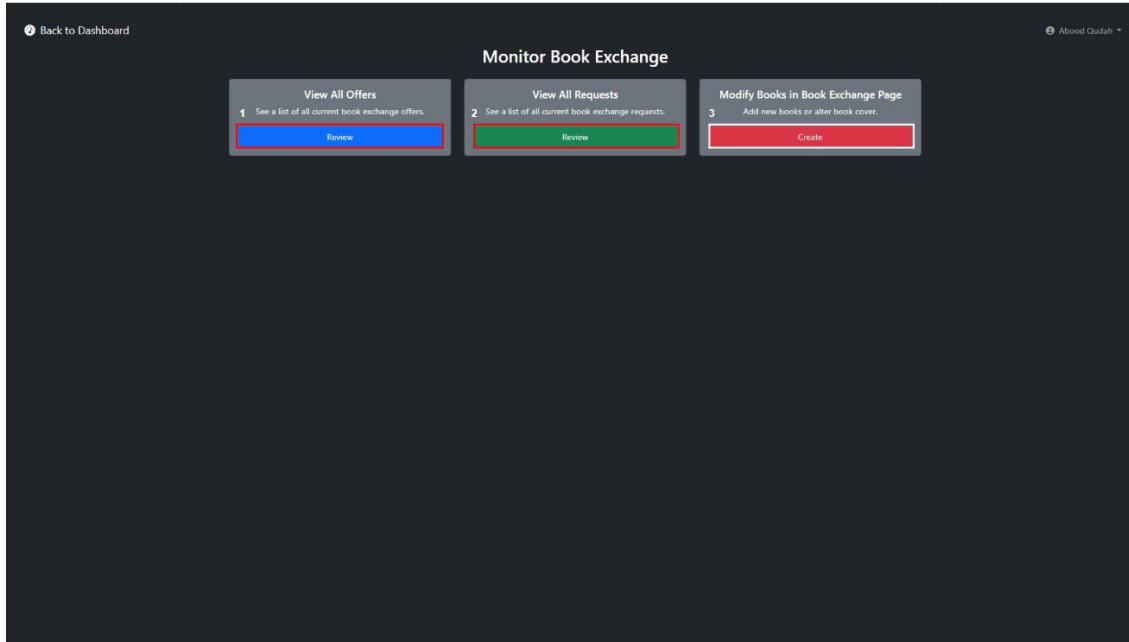
- 1- The admin needs to fill the Email field .
- 2- The admin needs to fill the Password field .
- 3- When the admin clicks on “ Forgot password “ , it will enable him/her to reset the password .
- 4- Once the admin clicks on the Sign in button after filling the needed information , it will take hi/her to the admins dashboard page .



- 1- Once the admin clicks , it will enable him/her to sign out .
- 2- Dashboard tabs that helps the admin to monitor the activity in separated way .
- 3- Once the admin hovers , it will show him/her the activity ratio of this field .
- 4- Once the admin hovers , it will show him/her the activity ratio of this field.
- 5- Once the admin hovers , it will show him/her the activity ratio of this field .

ID	Name	Link	Description	Major	Actions
3	C# FOR BEGINNERS	https://www.youtube.com/watch?v	This course will give you a full intro	MIS	8 Edit Delete
4	HTML Front End	https://www.mygreatlearning.com/	HTML is the core of web developm	MIS	Edit Delete
7	JavaScript Crash Course For Beginner	https://www.youtube.com/watch?v	In this Traversy Media YouTube cou	MIS	Edit Delete
1	Fundamentals of Digital Marketing	https://skillshop.xlsxedims.com/st	Discover the new Digital Marketing	Marketing	Edit Delete
14	Pricing Policies	https://www.coursera.org/learn/pric	Understand pricing strategies and l	Marketing	Edit Delete
19	Brand Management: Aligning Busin	https://www.coursera.org/learn/bra	The aim of the course is to change	Marketing	Edit Delete
15	Financial Markets	https://www.coursera.org/learn/fim	Introduction to risk management a	Finance	Edit Delete
16	Python and Statistics for Financial A	https://www.coursera.org/learn/pyt	Due to python's simplicity and hig	Finance	Edit Delete
17	Private Equity and Venture Capital	https://www.coursera.org/learn/prv	Over the course, students will be pr	Finance	Edit Delete
5	Managerial Accounting	https://alison.com/course/manager	Learn management accounting to c	Accounting	Edit Delete
6	Cost Accounting	https://alison.com/course/diploma-	Explore financial management and	Accounting	Edit Delete
20	Financial Accounting: Foundations	https://www.coursera.org/learn/fim	In this course, you will learn the fo	Accounting	Edit Delete
8	Managerial Economics	https://alison.com/course/diploma-	Master managerial economics from	Business Economics	Edit Delete

- 1) Once the admin clicks it , it will take him/her back to the dashboard page .
- 2) Once the admin clicks on the drop down list , it will enable him/her to choose specific major .
- 3) To add a new course , the admin needs to fill this field .
- 4) To add a new course , the admin needs to fill this field .
- 5) To add a new course , the admin needs to fill this field .
- 6) Once the admin clicks on the drop down list , it will enable him/her to choose specific major .
- 7) Once the admin clicks “Add course” after filling in all of the required information , the new course will be added .
- 8) The Edit/Delete buttons enable the admin to edit or delete the course .



- 1) Once the admin clicks , it will show for him/her a table of users who have offered materials .
- 2) Once the admin clicks , it will show for him/her a table of users who have requested materials .

- 3) Once the admin clicks , it will enables him/her to add or edit materials .

The screenshot shows a user interface for managing book offers. At the top, there is a navigation bar with a 'Back to Dashboard' link, a search bar labeled 'Search offered or desired book...', a dropdown menu for 'All Statuses', and a 'Filter' button. Below the search bar is a 'Generate Report' button. The main area is titled 'Book Offers' and contains a table with the following columns: ID, Offered Book, User ID, Desired Book, Details, Timestamp, and Status.

ID	Offered Book	User ID	Desired Book	Details	Timestamp	Status
162	مداد نصريون	4	—	ssssssss	2025-05-21 15:06:05	Exchanged
161	مداد إدارة مالية	4	—	1	2025-05-21 14:53:57	Exchanged
160	مداد الاقتصاد الدولي	4	ادارة عامه جذبة	مسائل	2025-05-21 14:53:03	Exchanged
159	مداد نصريون	4	—	ssssssss	2025-05-21 14:52:39	Exchanged
158	مداد إدارة مالية	5	—	aaaaaaaaaa	2025-05-20 22:37:11	Exchanged
157	مداد نصريون	5	—	عندى مادون مدادنا نصريون اكل الماده ما بدى ليه	2025-05-18 20:18:57	Exchanged
156	مداد الاقتصاد الدولي	1	تحليل وتصميم أنظمة	تحللي وتصميي انظمه حلاي مدد	2025-05-18 19:08:48	Dropped
155	تحليل وتصميم أنظمة	7	—	2	2025-05-18 10:18:41	Exchanged
154	تحليل وتصميم أنظمة	1	—	1	2025-05-18 10:18:31	Exchanged
153	مداد إدارة مالية	1	مداد الاقتصاد الدولي	hhhh	2025-05-18 10:10:17	Exchanged
152	مداد الاقتصاد الدولي	3	ادارة عامه جذبة	book	2025-05-17 16:04:44	Dropped
151	مداد إدارة مالية	3	تحليل وتصميم أنظمة	1	2025-05-17 15:56:42	Dropped
150	مداد نصريون	3	—	2	2025-05-17 15:54:26	Dropped
149	مداد مكتسبة 1	1	مداد مكتسبة 1	ث	2025-05-17 15:51:28	Exchanged
148	مداد إدارة أعمال	1	تحليل وتصميم أنظمة	عندى كتاب ادارة اعمال الاصدار	2025-05-17 14:27:53	Dropped
147	مداد إدارة أعمال	1	تحليل وتصميم أنظمة	عندى كتاب ادارة اعمال الاصدار	2025-05-17 14:26:59	Dropped
146	مداد نصريون	5	—	عندى مادون مدادنا نصريون	2025-05-17 14:24:55	Dropped
145	تحليل وتصميم أنظمة	7	—	عندى نسبت بالانجليزي تحليل انظمه ما بدى ليه مطروح	2025-05-17 13:31:07	Exchanged
144	تحليل وتصميم أنظمة	4	—	عندى مادة الحمد للتحليل بدى اعطيتها ما بدى ليها	2025-05-17 13:30:36	Dropped
143	مداد نصريون	1	—	gighirifikk	2025-05-16 18:11:36	Dropped
142	مداد نصريون	7	تحليل وتصميم أنظمة	سلامات مدد	2025-05-15 23:44:45	Dropped
141	مداد نصريون	1	—	ث	2025-05-15 23:42:14	Exchanged

- 1- The search bar enables the admin to search for specific material .
- 2- The “All status” drop down list enables the admin to choose a specific status .
- 3- The “ generate report “ button enables the admin to search for materials in specific period .
- 4- The admin clicks the “ Filter “ button after filling the required information , to confirm the result .

- 5- Once the admin clicks the “ timestamp “ button , it will reorder the time and date from new-old .

The screenshot shows a report generation interface with the following elements:

- 1**: A red box surrounds the entire form area.
- 2**: A red box surrounds the top right corner of the form, specifically the close button (X).
- 3**: A red box surrounds the "Cancel" button at the bottom left.
- 4**: A red box surrounds the "Generate" button at the bottom right.

Form fields include:

- From Year: 2025
- From Month-Day: Apr 4
- To Year: 2025
- To Month-Day: Apr 4
- حالة العرض (Offer Status): All
- نوع العرض (Offer Type): Give + Give For Take Offers

- 1- The admin needs to fill the information by choosing the specific choice from the drop down lists .
- 2- The (x) button : Once the admin clicks it , it will close the panel .
- 3- Once the admin clicks on the “ Cancel “ button , it will cancel the application .
- 4- Once the admin clicks on the “ Generate “ button , it will create the report .

The screenshot shows a user interface for managing book requests. At the top, there are four numbered callouts pointing to specific elements: 1. A search bar labeled "Search ID, Offer ID or Requester ID...". 2. A dropdown menu labeled "All Statuses". 3. A blue "Generate Report" button. 4. A red-bordered "Go" button. Below these is a table titled "Book Requests" with the following columns: ID, Offer ID, Requester ID, Timestamp (with a red border), and Status. The table contains 20 rows of data, each with a unique ID and timestamp, and a mix of Accepted and Rejected statuses.

ID	Offer ID	Requester ID	Timestamp	Status
170	162	7	2025-05-21 15:06:11	Accepted
169	161	3	2025-05-21 14:54:18	Accepted
168	159	3	2025-05-21 14:53:12	Accepted
167	160	3	2025-05-21 14:53:10	Accepted
166	158	4	2025-05-20 22:37:21	Accepted
165	157	7	2025-05-20 22:33:05	Accepted
164	155	5	2025-05-20 22:15:08	Accepted
163	157	1	2025-05-20 22:06:27	Rejected
162	154	4	2025-05-18 10:18:55	Accepted
161	155	4	2025-05-18 10:18:53	Rejected
160	153	4	2025-05-18 10:11:37	Accepted
159	152	1	2025-05-17 16:06:07	Rejected
158	152	5	2025-05-17 16:05:04	Rejected
157	152	1	2025-05-17 16:04:51	Rejected
156	149	5	2025-05-17 15:51:52	Accepted
155	149	3	2025-05-17 15:51:35	Rejected
154	145	5	2025-05-17 14:25:52	Accepted
153	141	5	2025-05-15 23:43:30	Accepted
152	141	7	2025-05-15 23:43:23	Rejected
151	140	7	2025-05-15 23:41:35	Accepted
150	139	4	2025-05-14 19:22:28	Accepted

- 1- The search bar enables the admin to search for specific Id .
- 2- The “All status” drop down list enables the admin to choose a specific status .
- 3- The “ generate report “ button enables the admin to search for Id in specific period .
- 4- The admin clicks the “ Go “ button after filling the required information , to confirm the result .
- 5- Once the admin clicks the “ timestamp “ button , it will reorder the time and date from new-old .

The screenshot shows a search form with the following elements:

- 1**: A red box surrounds the entire search panel.
- 2**: A red box highlights the close button (X) in the top right corner.
- 3**: A red box highlights the "Cancel" button at the bottom left.
- 4**: A red box highlights the "Generate" button at the bottom right.

Form fields include:

- From Year: 2025
- From Month-Day: May 4
- To Year: 2025
- To Month-Day: May 4
- Request Status: All

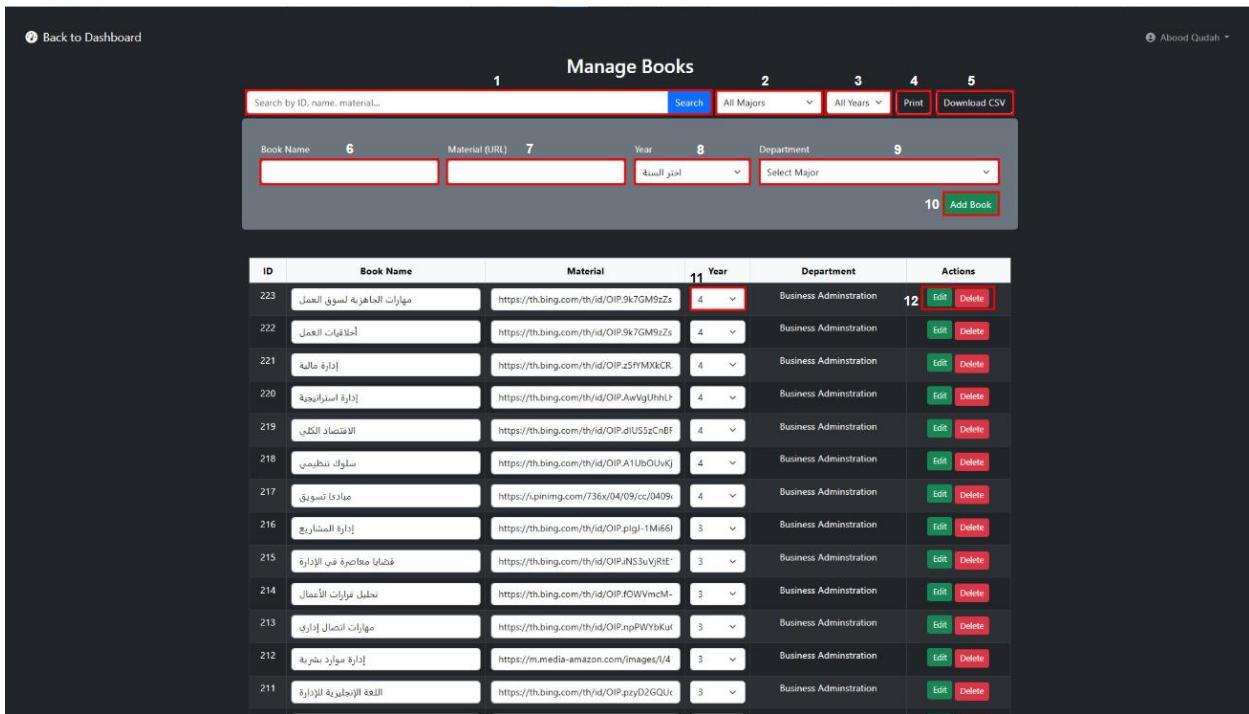
- 1- The admin needs to fill the information by choosing the specific choice from the drop down lists .
- 2- The (x) button : Once the admin clicks it , it will close the panel .
- 3- Once the admin clicks on the “ Cancel “ button , it will cancel the application .
- 4- Once the admin clicks on the “ Generate “ button , it will create the report .

The screenshot shows the "Manage Book Exchange" page with the following elements:

- 1**: A red box highlights the search bar.
- 2**: A red box highlights the dropdown menu.
- 3**: A red box highlights the "Go" button.
- 4**: A red box highlights the "Add New Book" button.
- 5**: A red box highlights the "Book Name" input field.
- 6**: A red box highlights the "Image URL" input field.
- 7**: A red box highlights the "Select Major" dropdown.
- 8**: A red box highlights the "Major" column.
- 9**: A red box highlights the "Actions" column with edit and delete buttons.

ID	Book Name	Image URL	Major	Actions
7	مقدمة في إدارة الأعمال	https://www.store.buckleivers.com/wp-content/uploads/2023/04/front-4.jpg	Business Administration	Edit Delete
6	البرمجة عامة مبسطة	https://www.needforallrat.com/images/fb/bookstore/covers/normal/221/221059.j	Public Administration	Edit Delete
5	كتاب الأدلة المدرسية	https://www.needforallrat.com/images/fb/bookstore/covers/carton/14/104705.j	Business Economics	Edit Delete
4	حسابات	https://images-na.ssl-images-amazon.com/images/S/compressed.photo.goodread	Accounting	Edit Delete
3	كتاب ملخص	https://www.marsira.jo/sites/default/files/2020030999_0.jpg	Finance	Edit Delete
2	كتاب برمجة	https://res.cloudinary.com/bloombury-arts/image/upload/w_368,c_scale,f_jpg	Marketing	Edit Delete
1	كتاب معلومات و تقنيات	https://mimella-amazon.com/images/71781kL4UjL_AC_L1%20x1000_C2%20.jpg	MIS	Edit Delete

- 1- The search bar enables the admins to search for books .
- 2- The drop down list enables the admin to select specific major .
- 3- The admin clicks the “ Go “ button after filling the required information , to confirm the result .
- 4- The admin needs to fill the field to add new book .
- 5- The admin needs to fill the field to add new book .
- 6- The drop down list enables the admin to select specific major .
- 7- The admin clicks the “ Add “ button after filling the required information , to add a new book .
- 8- The drop down list enables the admin to select specific major .
- 9- The Edit/Delete buttons enable the admin to edit or delete the book .



The screenshot shows a 'Manage Books' interface. At the top, there's a search bar labeled 'Search by ID, name, material...' with a 'Search' button, and dropdown menus for 'All Majors' and 'All Years'. Below the search area are four input fields: 'Book Name' (6), 'Material (URL)' (7), 'Year' (8) with a dropdown menu showing 'أحد المسميات' (Any Name), and 'Department' (9) with a dropdown menu showing 'Select Major'. A green 'Add Book' button is located at the bottom right of this section. The main body of the page contains a table with columns: ID, Book Name, Material, Year, Department, and Actions. The 'Actions' column includes 'Edit' and 'Delete' buttons for each row. The table lists 15 book entries, each with a unique ID, book name in Arabic, material URL, year (e.g., 4, 3, 2, 1), department (Business Administration), and edit/delete buttons.

ID	Book Name	Material	Year	Department	Actions
223	مهارات الاعمالية لسوق العمل	https://th.bing.com/th/id/OIP.9k7GM9zZs	4	Business Administration	Edit Delete
222	أدلة قرارات العمل	https://th.bing.com/th/id/OIP.9k7GM9zZs	4	Business Administration	Edit Delete
221	[إذاً ما فيه]	https://th.bing.com/th/id/OIP.25YMXeCR	4	Business Administration	Edit Delete
220	[إذاً أسرار الجودة]	https://th.bing.com/th/id/OIP.vlgUhhL	4	Business Administration	Edit Delete
219	الاقتصاد الكلي	https://th.bing.com/th/id/OIP.dIUS5zCnBF	4	Business Administration	Edit Delete
218	سلوك تنظيمي	https://th.bing.com/th/id/OIP.A1UbOUvK	4	Business Administration	Edit Delete
217	مقدمة تصميم	https://pinimg.com/t36x/04/09/cc/0409	4	Business Administration	Edit Delete
216	[إدارة المشاريع]	https://th.bing.com/th/id/OIP.pigl-1M66i	3	Business Administration	Edit Delete
215	فتح باب مهارات في الإدارة	https://th.bing.com/th/id/OIP.iNS3uVRIE	3	Business Administration	Edit Delete
214	سلسلة قرارات الأعمال	https://th.bing.com/th/id/OIP.KOWmcM-	3	Business Administration	Edit Delete
213	مهارات اتصال إداري	https://th.bing.com/th/id/OIP.noPwYbKuH	3	Business Administration	Edit Delete
212	[إدارة موارد بشرية]	https://m.media-amazon.com/images/I/4	3	Business Administration	Edit Delete
211	اللغة الإنجليزية للإدارة	https://th.bing.com/th/id/OIP.pzyD2GQUK	3	Business Administration	Edit Delete

- 1- The search bar enables the admin to search by several things .
- 2- The drop down list enables the admin to select specific major .
- 3- The drop down list enables the admin to select specific year .
- 4- Once the admin clicks the “ Print “ button , it will print the table as it's shown .
- 5- Once the admin clicks the “ Download CSV ” button , it will export table data in a comma separated values to be able to import to another databases .
- 6- The admin needs to fill the field to add new book .
- 7- The admin needs to fill the field to add new book .

- 8- The drop down list enables the admin to select specific year .
- 9- The drop down list enables the admin to select specific major .
- 10- The admin clicks the “ Add “ button after filling the required information , to add a new book .
- 11- The drop down list enables the admin to select specific year .
- 12- The Edit/Delete buttons enable the admin to edit or delete the book .

The screenshot shows the 'Academic Staff Management' interface. At the top, there's a search bar ('Search by name, email, department...'), a dropdown for 'All Departments', and buttons for 'Print' and 'Export CSV'. Below this is a form titled 'Add New Staff Member' with fields for 'Full Name', 'Email Address', 'LinkedIn URL', 'Image URL', 'Office Location', and 'Select Department'. A green 'Add' button is at the bottom right of the form. The main area displays a table of staff members with columns: ID, Name, Email, LinkedIn, Image URL, Office, Department, and Actions. Each row includes a red-bordered 'Department' field and a row of three icons (green checkmark, red square, blue square) under the 'Actions' column.

ID	Name	Email	LinkedIn	Image URL	Office	Department	Actions
60	سماء زيد الرعنى	jzoubi@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	JumanaZoubi.jpg	مندب 5 الطالقان الأرضي	Public Administration	
61	محمود محمد مغالية	maqbleh@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	mahmoudmaqbleh.jpg	مندب 4 الطالقان التالى	MIS	
62	هار ياسر محمود	h.hmoud@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	hazahmoud.jpg	مندب 4 الطالقان الأرضي	MIS	
63	محمود علي الراشدة	m.alidrahme@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	AliRashed.jpg	مندب 4 الطالقان الأرضي	MIS	
64	لبل علي دعفنه	laila.dalhibiyeh@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	Laila.jpg	مندب 5 الطالقان الأرضي	MIS	
65	هان حاتم الشحور	dmourh@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	HanAlshhour.jpg	مندب 4 الطالقان الأرضي	Marketing	
66	زيد محمد عسافات	zobedat@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	ZaidAssafat.jpg	مندب 4 الطالقان الأرضي	Marketing	
67	رامي محمد الدويري	r.dweiri@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	RamiDweiri.jpg	مندب 4 الطالقان الأرضي	Marketing	
68	إيات مارن محمود	a.alhawary@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	Ayat.jpg	مندب 5 الطالقان الأرضي	Marketing	
69	قرع ملك سليمان	f.shishani@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	Farahb.jpg	مندب 3 الطالقان الأرضي	Marketing	
70	داناك فاروق فاضل	Dana.Kakeesh@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	DanaKakeesh.jpg	مندب 3 الطالقان الأرضي	Marketing	
71	منذر محمد الدبسى	m.aldebel@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	ManzurAldebel.jpg	مندب 4 الطالقان الأول	MIS	
72	الترقر، عايل يحيى محمد	abary@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	ashraf.jpg	مندب 4 الطالقان الأرضي	MIS	
73	رند هانى الشحور	Randaldmour@ju.edu.jo	https://business.ju.edu.jo/ar/arabic/lists/f...	Randaldmour.jpg	مندب 4 الطالقان الأول	MIS	

- 1- The search bar enables the admin to search by several things .
- 2- The drop down list enables the admin to select specific department .
- 3- The admin needs to fill the field to add new staff member .
- 4- The admin needs to fill the field to add new staff member .
- 5- The admin needs to fill the field to add new staff member .
- 6- The admin needs to fill the field to add new staff member .
- 7- The admin needs to fill the field to add new staff member .
- 8- The drop down list enables the admin to select specific department .
- 9- The admin clicks the “ Add “ button after filling the required information , to add a new staff member .

10- The drop down list enables the admin to select specific major .

11- The Edit/Delete buttons enable the admin to edit or delete the staff member

The screenshot shows a web-based application interface for managing users. At the top, there's a header with 'Back to Dashboard' and 'Abood Qudah'. Below the header is a search bar with placeholder 'Search by ID, name, email, or phone...' and buttons for 'Search', 'Print Report', and 'Download CSV'. The main area has a title 'Manage Users' and a sub-section 'Add New User'. This section contains input fields for First Name, Last Name, Email, Phone, Password, and Role (with a dropdown menu currently set to 'User'). A green 'Add User' button is located at the bottom right of this section. Below this is a table titled 'Manage Users' with columns: ID, First Name, Last Name, Email, Phone, Role, Created At, Status, and Actions. The table lists eight users with various roles (User, Super Admin) and status (Active). Each row in the table includes an 'Actions' column with three buttons: 'Update' (green), 'Block' (yellow), and 'Delete' (red). The entire interface has a dark theme.

ID	First Name	Last Name	Email	Phone	Role	Created At	Status	Actions
10	Hazar	Hmoud	HazarHmoud@gmail.com	0789543124	user	2025-05-14 23:01:37	Active	4 User Update Block Delete
8	ali	sami	ali.qudah@gmail.com	0787745136	user	2025-05-06 22:42:36	Active	User Update Block Delete
7	Ahmad	Manaseer	manaser.ahmad@gmail.com	0787701415	user	2025-04-19 21:43:40	Active	User Update Block Delete
5	Leen	Ghanem	leen.ghanem@gmail.com	0781543219	super_admin	2025-04-19 15:00:23	Active	Super Admin Update Block Delete
4	Ahmad	Qudah	ahmad.qudah@gmail.com	0791197936	super_admin	2025-04-18 23:05:12	Active	Super Admin Update Block Delete
3	Emad	Qudah	Emad.qudah@gmail.com	0781245789	user	2025-04-18 21:44:48	Active	User Update Block Delete
1	Abood	Qudah	abood.qudah@gmail.com	0790000000	super_admin	2025-04-18 15:34:27	Active	Super Admin Update Block Delete
2	Jane	Doe	jane.doe@example.com	0781234567	user	2025-04-18 15:34:27	Active	User Update Block Delete

- 1- The search bar enables the admin to search by several things .
- 2- The admin needs to fill the field to add new user .
- 3- The admin clicks the “ Add “ button after filling the required information , to add a new user .
- 4- The drop down list enables the admin to select specific type of users .
- 5- The Update/Block/Delete buttons enable the admin to take several actions with the users .

Chapter 6 : Conclusion

This chapter provides a summary of the Business Hub system, highlights its significance, and discusses the main problem it aims to address. It also reflects on the work completed and presents possible directions for future development.

Problem Statement

University students at the Faculty of Business often face challenges in accessing essential resources, such as classroom locations, course materials, and information about academic staff. Finding the right hall, tracking down a specific teacher's office, or exchanging study materials are common hurdles that can hinder a student's academic experience and efficiency.

Project Summary

To address these issues, the Business Hub website was designed and implemented specifically for business students. The system brings together several key services in one unified platform:

Halls Location Page:

Students can search for a specific hall by name or select from one of four business buildings. Upon selection, the system displays a detailed list of all halls in the chosen building, including each hall's name, floor (stair), and a quick navigation video to help students find their way easily.

Department Pages:

The platform includes seven department-specific pages, each structured by academic year (Year 1 to Year 4). These pages list the books and supporting materials required for each course, making it simple for students to access the resources relevant to their major.

Course Support:

Within every department page, courses that support each major are clearly listed, helping students understand their study path and access supplementary resources.

Academic Staff Page:

A dedicated page allows students to search for academic staff members by name, enabling quick access to information such as office locations and department affiliations.

Book Exchange:

Business Hub also includes a book exchange feature, making it easy for students to offer and request textbooks or study materials, thus promoting sharing and reducing costs.

Opportunities for Future Work

While the initial implementation of Business Hub has addressed many pain points for business students, there are several opportunities for future enhancements:

Mobile Application:

Developing a mobile version of the platform could make it even more accessible and convenient for students on the go.

Real-Time Navigation:

Integrating real-time navigation or interactive campus maps could further simplify finding halls and offices.

Chat & Notifications:

Adding a real-time chat system and personalized notifications for book exchanges, announcements, or staff office hours would increase engagement and usability.

Integration with University Systems:

Connecting Business Hub to official university databases and authentication systems could automate data updates and improve security.

Conclusion

In summary, Business Hub is a significant step toward improving the academic experience of business students by centralizing key resources, simplifying everyday tasks, and fostering a sense of community through collaboration and sharing. With ongoing development and student feedback, the system can continue to evolve and address new needs in the future.

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Appendix

Mock Screens

Mock screens are visual drafts that show how a website or application's pages will look and behave, helping to plan layout, design, and user flow before actual development.

The mock screen displays a website layout for a 'Business Hub'. At the top, there is a header with a logo, the text 'Business Hub', and navigation links for 'Departments', 'Academic Staff', 'Halls', 'Books Exchange', a search icon, a menu icon, and a 'Sign In' button with a bell icon.

The main content area features a large video player with the title 'Video of Business school'. Below it, there is a section titled 'اعلانات العادة' (General Announcements) containing six circular icons with arrows pointing to them. These icons represent: 'Missing items', 'Books Exchange', and 'Most Asked Questions' on the right; and 'اعلانات القوائم' (List Announcements) on the left, which includes 'اعلانات العادة' itself, 'الصوره' (Image), and 'الخبر' (News).

A text box below the announcements states: 'Like Instagram explore page multiple ads will be shown here with brief title once clicked will go expand a bigger window that shows details and prices maybe and another pics to slide'.

The next section is titled 'Places you don't wanna miss' and contains a large, rounded rectangular frame with the text 'Quick Promotional Video and click'.

The footer section includes a 'Logo' placeholder, the text 'Business Hub', a 'Slogan' placeholder with a dotted line, and a list of links: 'Management information system', 'Public administration', 'Economics of Business', 'Business administration', 'Finance', 'Marketing', and 'Accounting'. To the right, there are links for 'Registration', 'eLearning', 'Ju-Exam', 'E-Library', 'Contact Us', and 'About Us'. At the bottom, there is a 'Developers' section with three empty circles and a footer note: 'short story about our idea inspiration and the value we want to deliver and mission objective'.



احسب معدلك التراكمي

ادخل معدلك التراكمي السابق

ادخل عدد الساعات التراكمية

كم عدد ساعات خطتك الدراسية

علامة المادة

 ج ▾

هل المادة معادة ؟

 أ ▾ ساعات المادة : 3 ▾

المادة 1



هل المادة معادة ؟

 ب ▾ ساعات المادة : 3 ▾

المادة 2

+ 3 المادة

احتساب المعدل



Business Hub

About Us Registration eLearning JU exam

Search ≡

Academic Staff Emails & Office Location

Search For Doctor Name 🔍

الاقتصاد | الادارة العامة | التمويل | المحاسبة | التسويق | ادارة الأعمال | نظم المعلومات الادارية

Office Location	Email	الاسم	الصورة
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	جمانة زياد الزعبي	
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	زيينة عدنان قاسم (رئيس فني)	
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	محمد خالد النوايسة	
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	محمد عبدالله الخطابية	
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	ليل علي ذهبية	
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	احمد محمد عبيداء	
مبني 3 الطابق الارضي	j.zoubi@ju.edu.jo	وعد عبد الكريم الشوبكي	

Business Hub

Management information system
Public administration
Economics of Business
Business administration
Finance
Marketing
Accounting

Contact Us

Slogan : ??????????????????????

 Business Hub

Departments ▾ AcademicStaff ▾ Halls BooksExchange

Business 4 Building Halls

Floor -1 or basement

GIF to the Hall	GIF to the Hall	GIF to the Hall
Name of the Hall	Name of the Hall	Name of the Hall

Floor 1 GF

GIF to the Hall	GIF to the Hall	GIF to the Hall
Name of the Hall	Name of the Hall	Name of the Hall

Floor 2

GIF to the Hall	GIF to the Hall	GIF to the Hall
Name of the Hall	Name of the Hall	Name of the Hall

GIF to the Hall
Name of the Hall

Business Hub

Logo

Slogan : ######

Management information system
Public administration
Economics of Business
Business administration
Finance
Marketing
Accounting

Contact Us

 Business Hub

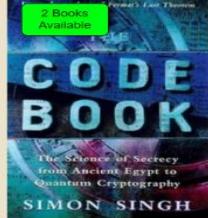
About Us Registration eLearning JU exam

Search ≡

Books Exchange

Search For a book

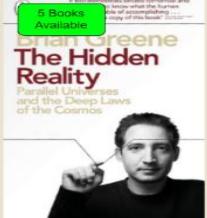
MIS Books ACC Books BUS Books ECO Books MKT Books FNC Books PAS Books



2 Books Available

CODE BOOK
The Sciences of Secrecy from Ancient Egypt to Quantum Cryptography
SIMON SINGH

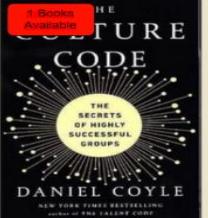
Give or Take



8 Books Available

Brian Greene
The Hidden Reality
From Parallel Universes and the Deep Laws of the Cosmos

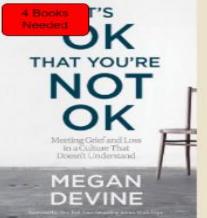
Give or Take



3 Books Available

THE CULTURE CODE
The Secrets of Highly Successful Groups
DANIEL COYLE

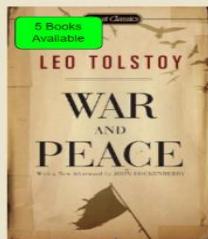
Give or Take



4 Books Needed

IT'S OK THAT YOU'RE NOT OK
Meeting Grief and Loss in a Culture That Doesn't Understand
MEGAN DEVINE

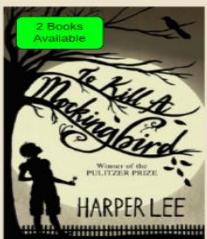
Give or Take



5 Books Available

WAR AND PEACE
With a New Afterword by JAMES RENDELL

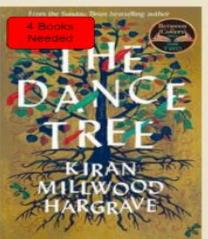
Give or Take



2 Books Available

To Kill a Mockingbird
Winner of the PULITZER PRIZE

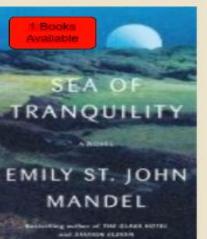
Give or Take



4 Books Needed

THE DANCE TREE
KJRAN MILLWOOD HARGRAVE

Give or Take



7 Books Available

SEA OF TRANQUILITY
A Novel
EMILY ST. JOHN MANDEL

Give or Take

Logo Business Hub

Slogan : I|||||||||

Management information system

Public administration

Economics of Business

Business administration

Finance

Marketing

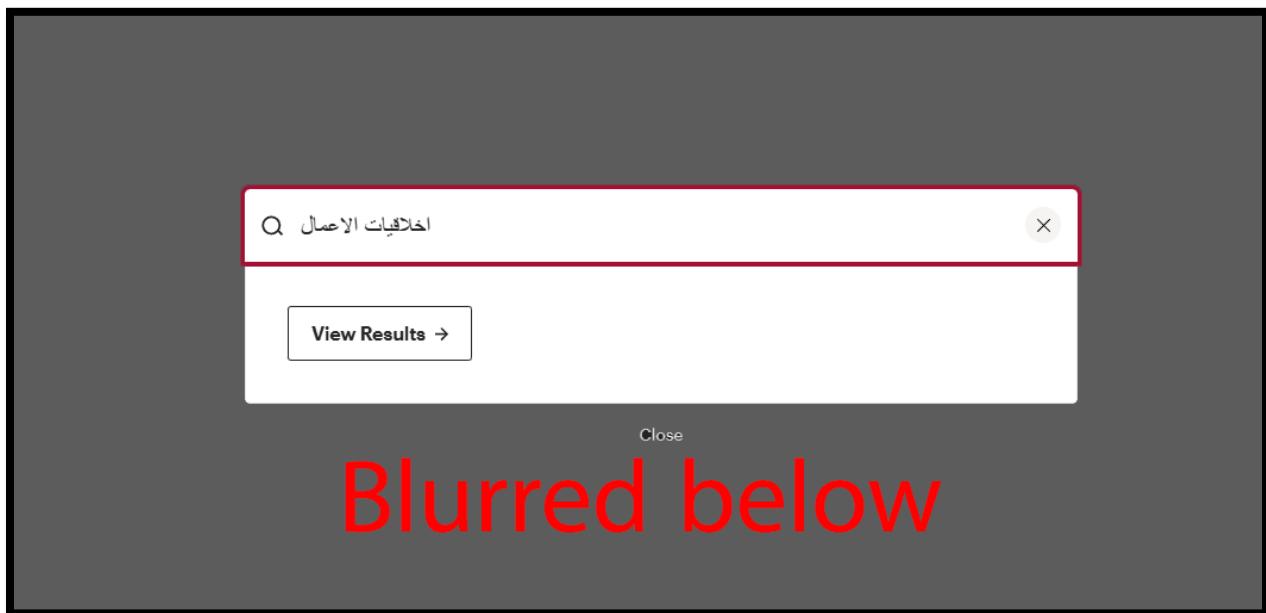
Accounting

Contact Us

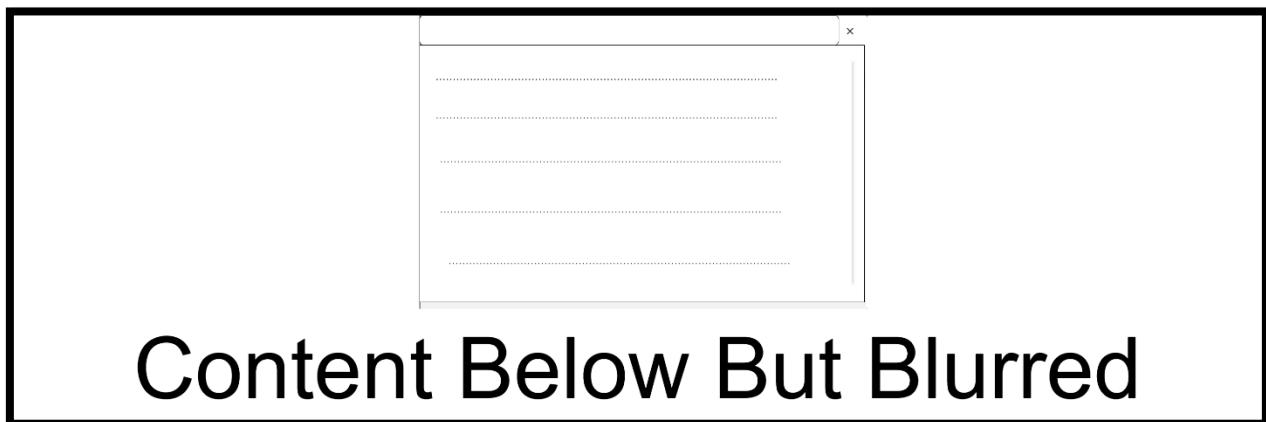
Developers

short story about our idea inspiration and the value we want to deliver and mission objective

70



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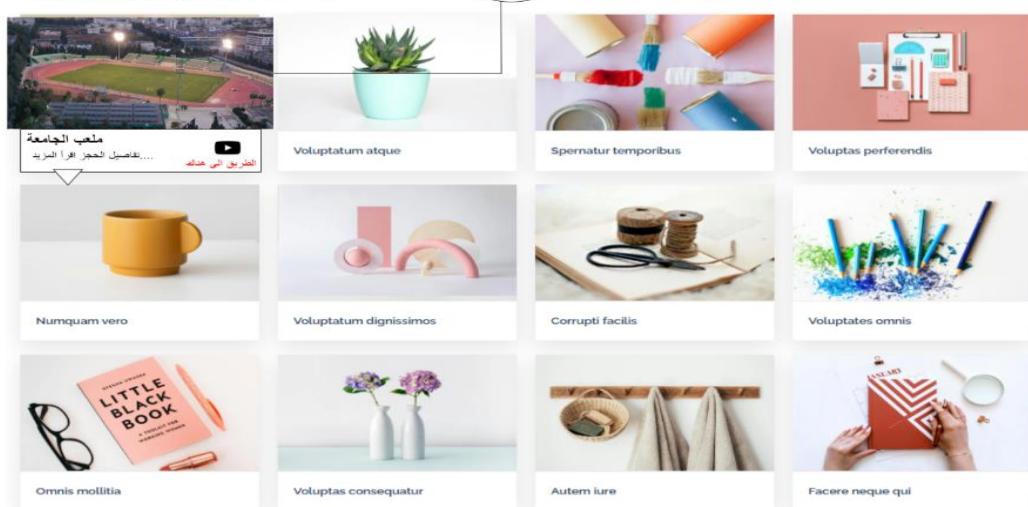


 Business Hub

About Us Registration eLearning JU exam 🔍 ☰

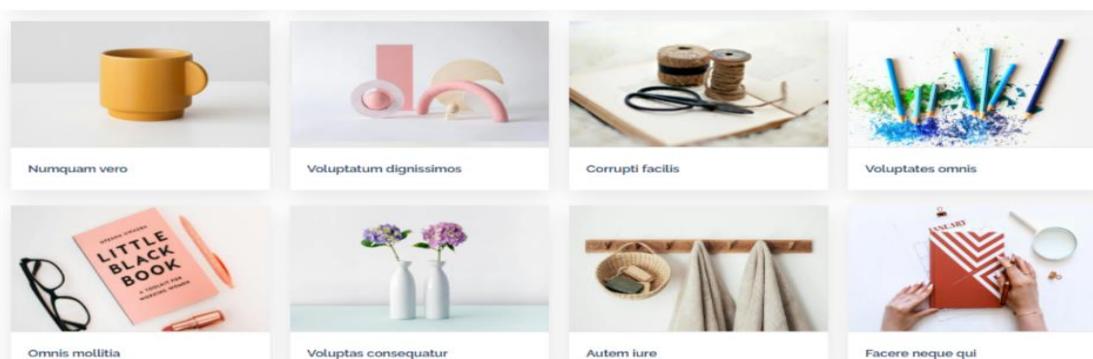
Activites to do in Uni

pop video above all page



ملعب الجامعة ... تفاصيل المجزء الرابع المزید ... الطريق الى هنا

Places to visit with friends



Management information system
Public administration
Economics of Business
Business administration
Finance
Marketing
Accounting

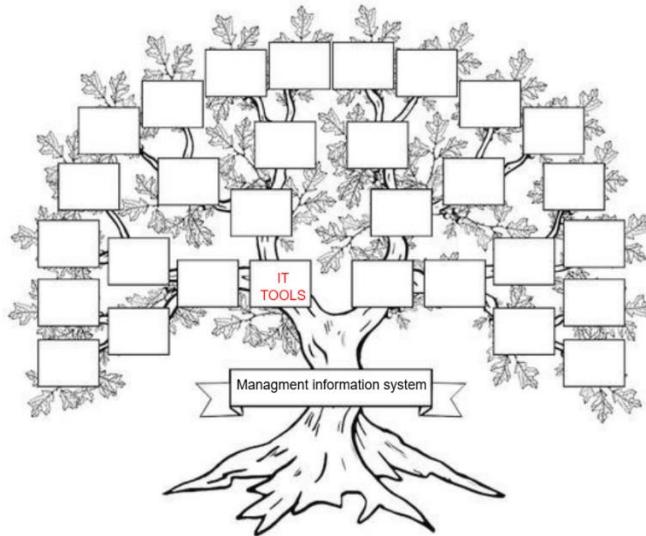
Contact Us

Developers

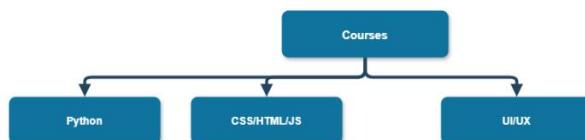
short story about our idea inspiration and the value we want to deliver and mission objective



Management information system department

Once the Course Clicked **IT TOOLS** all this material will be downloaded

And this will be applied to the other department pages



When you hover it will give details about it



Slogan : ######

→ Management information system

→ Public administration

→ Economics of Business

→ Business administration

→ Finance

→ Marketing

→ Accounting

Contact Us