

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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Software Graduation Project

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Dedication:

First and foremost, we thank God Almighty, for He has been our guide in every step of our education. To our beloved Messenger, may God's prayers and peace be upon him, we extend our sincere thanks and gratitude, for you have conveyed to us the best message and illuminated our path. To our family and friends who stood by us and provided us with unconditional support, we extend our sincere thanks and appreciation.

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Disclaimer:

This report was prepared by Ibtihaj Assi and Nada Ajaj in the Department of Computer Engineering, Faculty of Engineering and Information Technology, An-Najah National University. The report has not been edited or corrected except as a requirement for the Bachelor's degree, and may contain linguistic or content errors. The opinions expressed in it are those of Ibtihaj Assi and Nada Ajaj alone. An-Najah National University does not bear any responsibility or liability for this report.

Abstract:

This idea was created to be a comprehensive platform that facilitates readers' access to books, whether through purchase or exchange, while enhancing the experience using smart technologies. This software development project includes a website and a mobile application that provides multiple services to users.

The platform provides the ability to sell books in various categories (such as novels, political books, religious books, children's books, etc.), in addition to the ability to exchange books, where users can display their books for exchange so that others can benefit from them. It also provides the audio library feature and PDF books, in addition to the book selling feature, where the user can display his book for sale in the application after it has been purchased from the application and finished reading it.

The system also includes a map feature to help users find specific locations to exchange books. In addition, notifications are sent to encourage users to read and explore more books. Users are also notified when a new book, PDF, or audiobook is added. It also provides the full management feature of the platform as before the admin through easy-to-interact interfaces.

Chapter 1: Introduction

1.1 Statement of Problem

We are from the nation of our noble Prophet Muhammad, peace be upon him, who urged us to seek knowledge and read. As our beloved Prophet described us as a nation that reads, reading is the foundation of knowledge, progress, and the cornerstone for enhancing awareness and spreading culture. Reading helps build generations capable of advancing and uplifting societies.

However, many people face challenges in finding books of various categories, for both adults and children, in one store or traditional libraries. Additionally, people may struggle to find collections of PDF books or audiobooks in one easy-to-use platform.

What sets our platform apart is the idea of book exchange between users, enabling them to obtain and read books for free. The availability of free books provides motivation and encouragement for reading. Moreover, our platform offers the benefit of reselling purchased books, allowing users to regain part of their investment. This feature encourages customers to buy books from the platform while making the most of their value.

Our platform offers a comprehensive experience for customers, promoting both reading and purchasing.

1.2 Objective

The "Kitabi w Kitabak" project aims to develop an online book shopping and reading platform that offers books across various categories. This application seeks to simplify and facilitate the process of purchasing books through a mobile application or a user-friendly web interface accessible to users of all demographics. The platform strives to meet the users' demands by providing a wide range of books and services.

Users can subscribe to audiobooks and PDF books, and the platform also offers a free feature that allows users to easily exchange books among themselves. Additionally, users can benefit from a feature that enables them to purchase books from the store and, after finishing them, resell the books on the platform, with a commission fee applied for the platform's benefit.

Chapter 2: Constraints, Standards, and earlier course work

2.1 Constraints

❖ Size and weight:

To ensure that the application downloads quickly and runs smoothly, especially on mobile devices, it must be designed in a small and reasonable size to avoid any performance delays. The app's efficiency should also be improved to reduce the space it takes up on users' devices, making it easier for them to download and install it without affecting their storage capacity.

❖ Specific programming languages or specific systems:

We have to design a highly efficient application that runs smoothly on mobile phones and the web without facing any problems, so stable software libraries must be chosen to ensure full compatibility between platforms. It also includes powerful and effective programming languages on both platforms, such as using Node.js to develop the backends and Flutter to develop the frontends.

❖ Finding free audio and pdf books:

Finding free audio and PDF books was one of the limitations we faced that delayed our progress. so we did a lot of research and contacted platforms that provide free or public domain books, such as LibriVox.

❖ Finding a site to upload images and upload files in pdf and mp3 format:

There is a problem with the Firebase website to provide free uploading of files and images, so we resorted to searching for other free sites that enable us to upload images by selecting the image from the laptop or mobile files and storing it in the database and displaying it on the platform. We found the imgbb website to upload images so that the image is uploaded to the website and stored and a special link is sent to

the image, so we keep that link in the database and use it on the website. For files, we found the Cloudinary website to upload files and keep the special link for the file.

2.2 Standards

In order to create a high quality, scalable, and easily maintained application, we have employed agile development approaches. These practices facilitate the early creation of the application as well as its maintenance, problem detection, and feature addition.

2.3 Earlier Coursework

❖ Object Oriented Programming:

This course teaches Object Oriented Programming in Java, We use the same principles in Dart even though we don't use Java. (We use Flutter Language Programming).

❖ Database Design:

This course is very important because most mobile and web applications use databases Therefore, database design was crucial to the project. In a database course using MySQL, also in this project, we use MySQL database.

❖ Online Courses:

We attended intensive online training courses in Node.js, Flutter, and Dart to gain the knowledge needed to build a fully integrated and efficient application.

❖ Critical Thinking and Research Skills:

We studied how to research and write reports in a course Critical Thinking and Research Skills. That was the reason why we were able to write this report.

Chapter 3: Literature Review

In our current era, with the great technological development, access to books has become easier than ever thanks to online stores that offer a variety of options, such as paper books, electronic books in PDF format, and audio books.

Digital Books (PDF): According to a study by the International Digital Publishing Forum (IDPF), the digital book sector has witnessed remarkable growth and development in recent years, due to the ease of access and retention. Johnson (2019) also indicates that the availability of books in PDF format has helped many readers access books faster and more flexibly, in addition to the economic benefit of selling digital books that do not require printing or shipping costs. According to a study by Miller (2020), the market today is heading towards further expansion with the advancement of mobile book reading technologies.

For audiobooks: According to the Audiobook Publishers Association (APA) report, the audiobook sector has witnessed remarkable growth and development in recent years. Audiobook sales have increased by 16% in the past year, as many people have come to prefer listening to books while commuting or while busy. Smith (2021) also explained that audiobooks have become more widespread and popular among individuals who prefer to deal with books flexibly. These increases and studies contribute to increasing the demand for providing platforms that contain audiobooks, enabling users to obtain and deal with them easily and flexibly.

The most important thing that distinguishes the Kitabi and Kitabak application from other sites and applications is that it is comprehensive and integrated in providing most of the services for reading enthusiasts, as it combines selling books in different categories and providing subscriptions for PDF books and audio books, in addition to the presence of the feature of exchanging books between users, as well as the existence of the idea of selling books that were purchased from the store by users. This innovation and diversity available on our platform makes it distinct from other platforms and also meets most of the needs of readers.

Chapter 4: Methodology

4.1 Tools, Methods and Programming Languages

❖ Database:

Firestore database in Firebase for messaging and notification and order track, MySQL Database to store users and plants.

❖ Programming Language:

Mobile applications and web pages were developed using a combination of programming languages:

Back end

For the back end, we chose Node JS as a programming language. which is a Java Script language that assists server-side development.

Front end

We employed Dart language, especially the Flutter framework. Dart language is a language that focuses on designing user interfaces, while Flutter offers a range of widgets and tools that make the pages more interactive and beautiful.

Database

In our project, we have used the MySQL database as an ideal solution for storing data since the project is full of relationships, and MySQL is a popular open-source relational database known for its reliability, ease of use, and scalability.

4.2 Tools

Android Studio:

Integrated Development Environment (IDE) for Android app development, providing a feature-rich environment for designing and coding.

Visuale studio:

Used for back-end development, offering powerful tools and features for Java-based application development, and we use it to show and run the Node JS code.

GitHub:

Web-based platform for version control and collaboration using Git. Facilitates seamless collaboration among team members.

Firebase:

A platform for mobile and web app development, providing tools like authentication, real-time database, and cloud functions, we used it in Notifications.

XAMPP with MySQL:

XAMPP is a free, open-source cross-platform web server solution stack, and MySQL is used as the relational database management system (RDBMS).

Postman:

API development and testing tool, simplifying the process of creating and managing APIs for efficient communication between different components, and we used it to test Node JS code.

Cloudinary:

is a cloud-based media management platform that simplifies the storage, optimization, and delivery of different files type. We used it to upload and store pdf and audio files.

ImgBB:

is a simple and user-friendly image hosting platform that allows users to upload, store, and share images effortlessly.



4.3 Mobile application

In our application we have 2 user type (Admin, Buyer) when the user enter our mobile application the screens will be:

❖ Start Screen:

When the user opens the application, the home page appears immediately. When they click on "إبدأ" they will be directed to the login page.



Figure 1:Start Screen

❖ Log in and sign up Screen's :

If the user already has an account, they can log in by entering their email address and password.

تسجيل الدخول

قم بتسجيل الدخول لمتابعة استخدام التطبيق

البريد الإلكتروني

أدخل بريدك الإلكتروني

كلمة المرور

أدخل كلمة المرور

نسيت كلمة المرور؟

تسجيل الدخول

تسجيل الدخول باستخدام Google

ليس لديك حساب؟ إنشاء حساب

Figure 2: Log in Screen

If the user forgets their password, they can click on "نسيت كلمة المرور؟" A message will be sent to their email to reset their password.

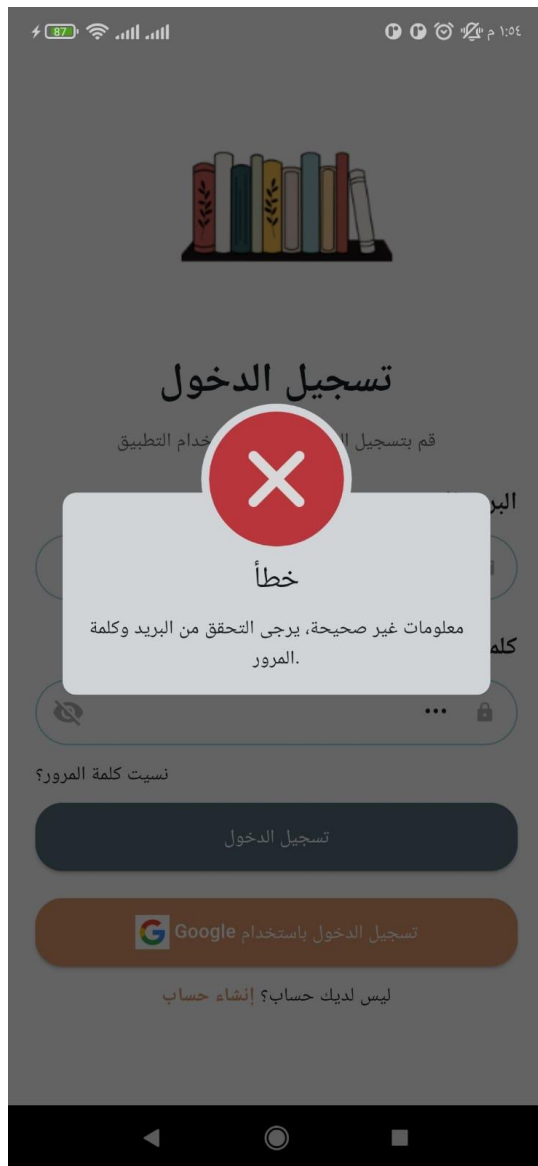


Figure 3:incorrect password or email Screen

Forgot Password:

If the user forgets their password, they can click on "Forgot Password?" A message will be sent to their email to reset their password.

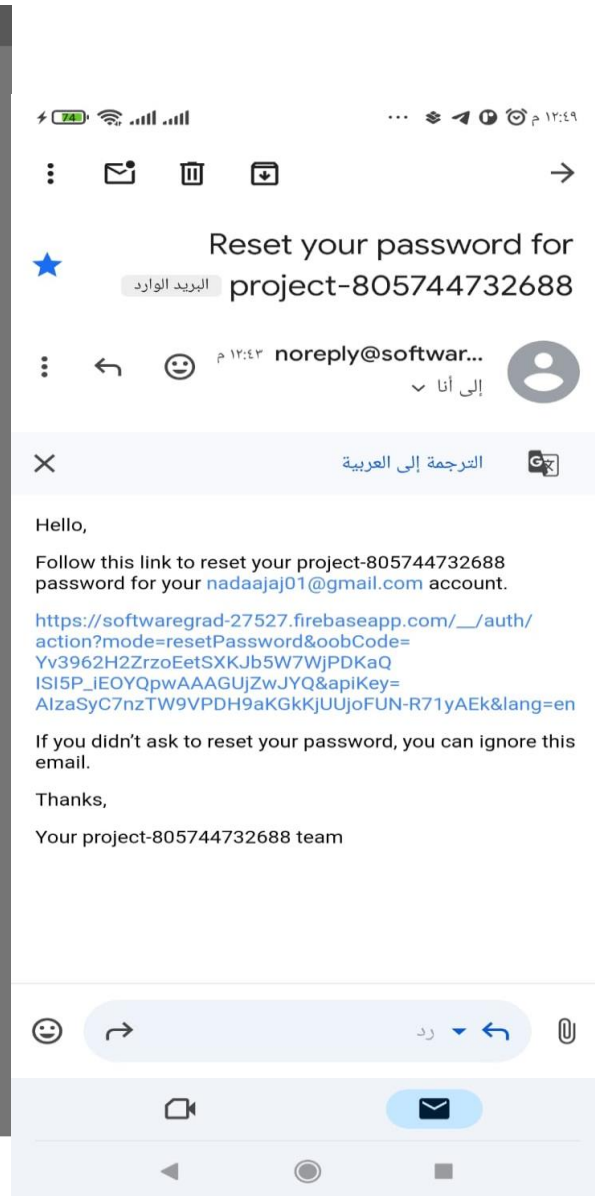
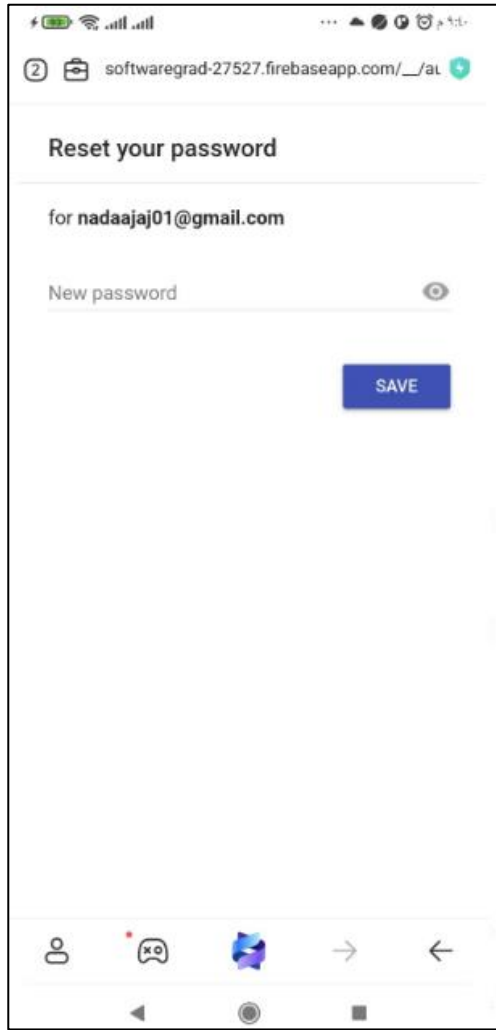


Figure 4: Password reset email sent successfully

Figure 5: Reset password



Sign Up screen:

If the user does not have an account, they can click on "إنشاء حساب" and enter their details.

Once the email is verified and the password is strong, a message will be displayed to the user informing them that the registration was successful and a follow-up email has been sent.

اسم المستخدم

البريد الإلكتروني

كلمة المرور

تأكيد كلمة المرور

رقم الهاتف

المدينة

إنشاء حساب

Figure 6: Sign up screen

نجاح

يرجى التحقق من بريدك الإلكتروني لإكمال التسجيل.

Figure 7: Account creation successful

When creating an account, it is verified that the user has not left any fields empty.

The screenshot shows a mobile application interface for account creation. The form consists of several input fields, each with a label and a placeholder text. The fields are: 'اسم المستخدم' (User Name) with 'ابتهاج العاصي' (Abtaha Al-Ahadi) entered; 'البريد الإلكتروني' (Email) with 's12028338@stu.najah.edu' entered; 'كلمة المرور' (Password) with '0599659218' entered; 'تأكيد كلمة المرور' (Confirm Password) with '.....' entered; 'رقم الهاتف' (Phone Number) with 'أدخل رقم الهاتف' (Enter phone number) as placeholder; 'المدينة' (City) with 'أدخل اسم المدينة' (Enter city name) as placeholder; and 'عنوان الشارع' (Street Address) with 'أدخل عنوان الشارع' (Enter street address) as placeholder. The 'رقم الهاتف', 'المدينة', and 'عنوان الشارع' fields are highlighted with a red border, indicating they are empty. Below the 'عنوان الشارع' field is a blue button labeled 'إنشاء حسابي' (Create my account). The top of the screen shows the status bar with battery, signal, and time (1:56 PM).

Figure 8: empty field

After email verified successfully it will go to login screen...

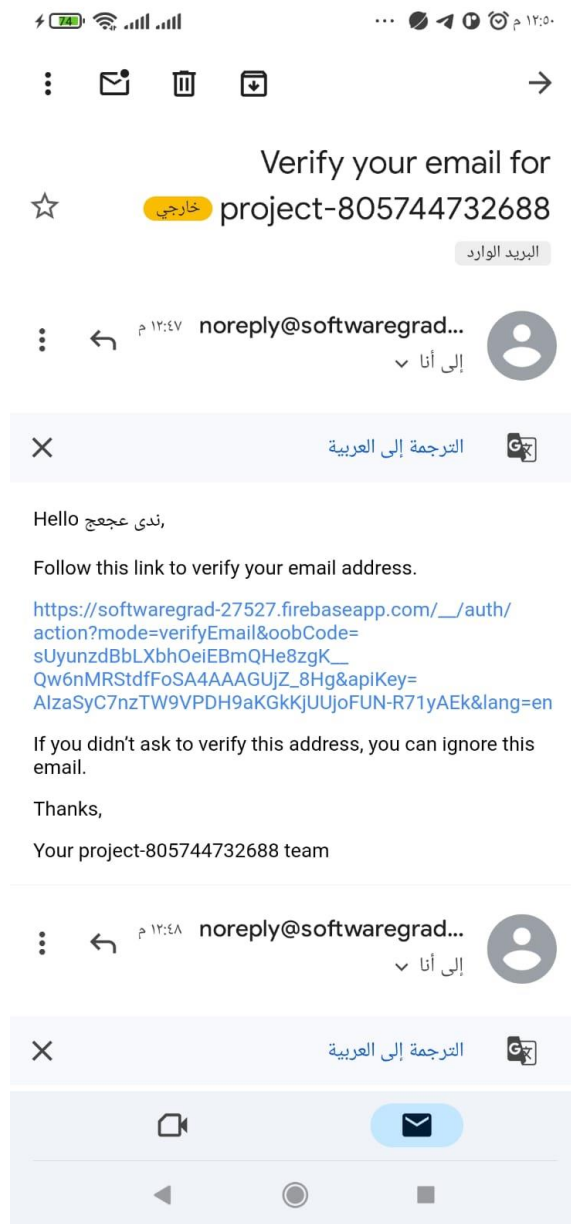


Figure 9:verify email on gmail

❖ Home screen:

- ❖ **Main Title:** The app's name, "كتابي وكتابك" is displayed at the top, reflecting the core concept of the app, which specializes in books.
- ❖ **Top Bar:**
 - Contains a side menu icon (Menu symbol) for accessing the app's sections or settings.
 - A search icon to facilitate finding books.
 - A notifications icon to display important alerts.
- ❖ **Promotional Section:**
 - Features a prominent banner at the top showcasing a newly arrived book with the tagline "New Arrival" and the text "وصل حديثاً" for emphasis.
- ❖ **Main Categories:**
 - Includes a set of circular buttons for book classifications (e.g., "Islamic Books" and "Historical Books") to simplify browsing by category.
- ❖ **Latest Releases: أحدث الإصدارات**
 - Displays a horizontal slider of new books with brief details:
 - book cover image, price, book rating (stars and the number of reviews).
 - author's name.
- ❖ **The best seller: الأعلى مبيعاً**
 - Displays a horizontal slider of the best seller books with brief details:
 - book cover image, price, book rating (stars and the number of reviews).
 - author's name.
- ❖ **Pdf book:**
 - Displays a horizontal slider of the pdf books with brief details:
 - book cover image, title and author's name.
- ❖ **Audio book:**
 - Displays a horizontal slider of the audio books with brief details:
 - book cover image, title and author's name.
- ❖ **Bottom Navigation Bar:**
 - Contains four icons for quick access to the following sections:
 - Home: To return to the main page.
 - Cart: To view books added to the shopping cart.
 - Favorites: To check saved books.
 - Profile: To manage the user account.
- ❖ **Overall Design:**
 - Soft colors (light blue) are used, giving a sense of comfort during use.
 - The use of Arabic script reflects the local identity and the language used in the app.



Figure 10: home screen



Figure 11: home screen



Figure 12: home screen

❖ Promotional Section:

The Promotional Section displays newly arrived books in an engaging banner. The images in this section automatically slide to the right, allowing users to seamlessly view all the latest releases as shown in Figure 14. When a user taps on any book, they are redirected to the book's details page for more information as shown in Figure 15.



Figure 14: promotional slider



Figure 15: promotional slider

❖ Main Categories:

Includes a set of squared buttons for book classifications (e.g., "الكتب الإسلامية" and "الكتب التاريخية") to simplify browsing by category, user can select any book category in home screen or in the menu to see all books who belonged to this category whether they are used as shown in Figure 16 or new books as shown in Figure 17.

user can interact with book by put it in his Wishlist(المفضلة)to return to it later or delete it from Wishlist.

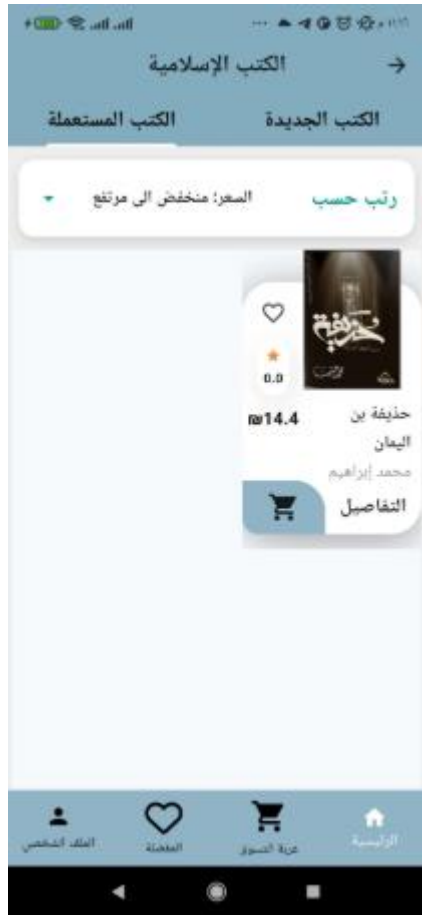


Figure 16: used Islamic books



Figure 17: new Islamic books

The user can arrange the books as follows:

- 1- Price: low to high
- 2- Price: high to low
- 3- Rating: low to high
- 4- Rating: high to low

As shown in Figure 18.

Also, user can add books to his cart to buy it later as shown in Figure 19, but if the book is already in the cart a message will display and the book will not be added to the cart as shown in the Figure 20. And if the book is sold out or has discount the book will display as shown in Figure 21.



Figure 18: arrange book

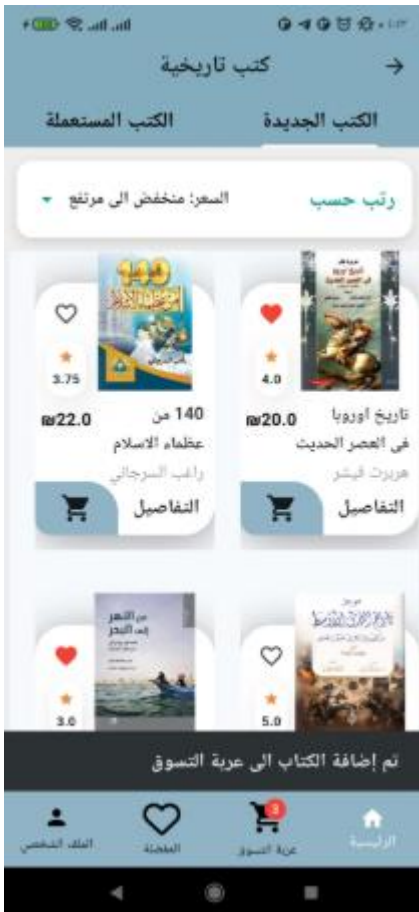


Figure 19: add to cart 1

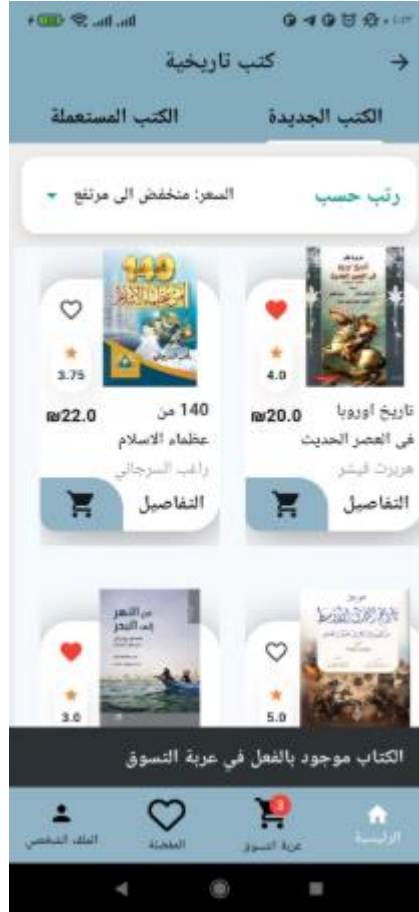


Figure 20: add to cart 2



Figure 21: sold out and sale

❖ Detailed page screen:

When user select any books, he presses on the “التفاصيل” word will enter to detailed page to see all information related to this book like name, author name, description, rate, total number of ratings and price as shown in Figure 22.

Also, user can rate this book, interact with book by put it in his Wishlist or put it in his shopping cart to return to it later as shown in Figure 23

And user can add a comment and after that he can update it or delete it as shown in Figure 24.



Figure 22: Detailed page1



Figure 23: Detailed page2



Figure 24: Detailed page3

❖ Latest Release Slider:

Displays a horizontal scroll bar for new books with brief details:

Image of the book cover, title, price, book rating (stars and number of reviews) as shown in Figure 25. Also, the user can add the book to favorites and the shopping cart or go to the details page as explained above.

❖ The best seller Slider:

Displays a horizontal scroll bar for the best seller books with brief details:

Image of the book cover, title, price, book rating (stars and number of reviews) as shown in Figure 26. Also, the user can add the book to favorites and the shopping cart or go to the details page as explained above.



Figure 25: new book



Figure 26: best seller

❖ Offers Announcements Section:

- ❖ This section displays a prominent advertisement that draws attention to the available offers and discounts as shown in Figure 27. When the user clicks on this ad, he is taken directly to a dedicated page containing details of all available offers and discounts, making it easier for the user to better explore the offers as shown in Figure 28.



Figure 27: sales



Figure 28: sales page

❖ Audio books slider:

Displays a horizontal slider of the audio books with brief details: book cover image, title and author's name as shown in Figure 29. The user can click on the headphone icon to go to the book details page or go to the audio library page to see all audio books by pressing the "المزيد" button as shown in Figure 30.



Figure 29: audio book slider

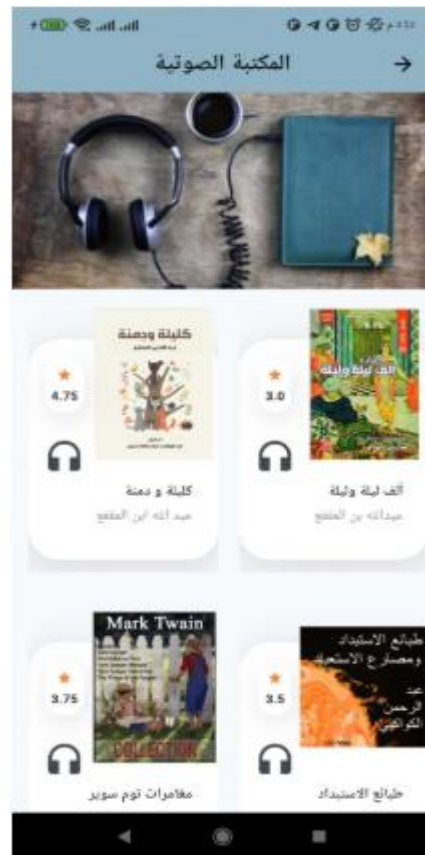


Figure 30: audio library page

❖ Audio Book Detailed page:

When user select any book and press on the headphone icon will enter to detailed page to see all information related to this book like name, author name, description, rate, total number of ratings and chapters as shown in Figure 31 and Figure 32.

If user want to listen to the books chapters he should be subscribed with our application, so when user press on the chapter and he doesn't subscribe a subscription dialog will display to ask him to subscribe as shown in Figure 33.



Figure 31: audio page1



Figure 32: audio page2



Figure 33: audio page3

❖ chapter screen:

Only subscribed user can enter the chapter screen and listen to the chapter, also user can play and stop the audio by press on the play icon, and he can go the audio forward 10 second from by press on the clockwise circle and go the audio back 10 second by press on the counterclockwise circle as shown in Figure 34.



Figure 34: chapter page

Figure 34: chapter page

❖ Pdf books slider:

Displays a horizontal slider of the pdf books with brief details: book cover image, title and author's name as shown in Figure 35. The user can click on the pdf icon to go to the book details page or go to the pdf page to see all pdf books by pressing the “المزيد” button as shown in Figure 36.



Figure 35: pdf book slider



Figure 36: pdf book page

❖ pdf Book Detailed page:

When user select any book and press on the pdf icon will enter to detailed page to see all information related to this book like name, author name, description, rate and total number of ratings as shown in Figure 37.

If user want to see the pdf books he should be subscribed with our application, so when user press on the pdf icon and he doesn't subscribe a subscription dialog will display to ask him to subscribe as shown in Figure 38.



Figure 37: pdf page1



Figure 38: pdf page2

❖ pdf screen:

Only subscribed user can see the pdf book document, user can search for text, bookmarking pages, navigate to the desired pages instantly and, user can zoom in, out in the pdf document as shown in the Figure 39.

User can search for text and navigate to all occurrence in a pdf document instantly as shown in Figure 40 and if there is no match a “لا يوجد نتيجة” message will display as shown in Figure 41.

When user bookmarking pages it will saved so it will help user to navigate within the pdf document of the pages bookmarked already and he can delete the page from the bookmarked pages as shown in the Figure 42 and Figure 43.



Figure 39: pdf display



Figure 40: success search



Figure 41: failed search



Figure 42: bookmark1



Figure 43: bookmark2

❖ Top Bar:

Contains a side menu icon (Menu symbol) for accessing the app's sections or settings.
A search icon to facilitate finding books.
A notifications icon to display important alerts.

❖ Menu:

user can click on menu icon exist in left side of the top bar and it will display a list actions as shown in Figure 40 & Figure 41:

- ✚ Profile Screen
- ✚ Books Categories screen (we discussed it above)
- ✚ Audio Books screen (we discussed it above)
- ✚ Pdf Books Screen (we discussed it above)
- ✚ Exchanging Book screen
- ✚ Sell User Book screen
- ✚ About Us screen
- ✚ Logout



Figure40: menu1



Figure41: menu2

❖ profile screen:

if user click on 'profile' from 'menu' then he can see all his information as shown in Figure 42.

user can edit any information by press on pencil icon then change his information and press on 'حفظ التغييرات' then application will display to user message to show success update profile as shown in Figure 43 and Figure 44.

Also, user can edit his profile image by click on camera icon and select image from gallery then the new image will appear as shown in Figure 44.



Figure 42: profile screen



Figure 43: edit information1



Figure 44: edit information2

❖ Change password screen:

if user click on "إعادة تعيين كلمة السر" then 'Change password email will

sent and a message will display to inform the user of the email as shown in Figure 45, 46,47,48.

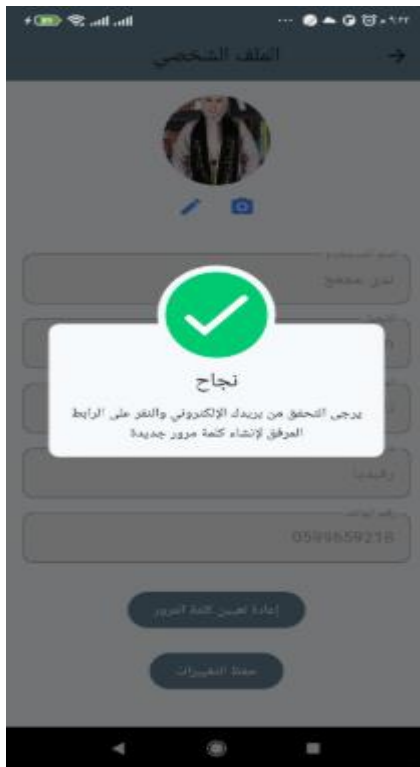


Figure 45: change password1

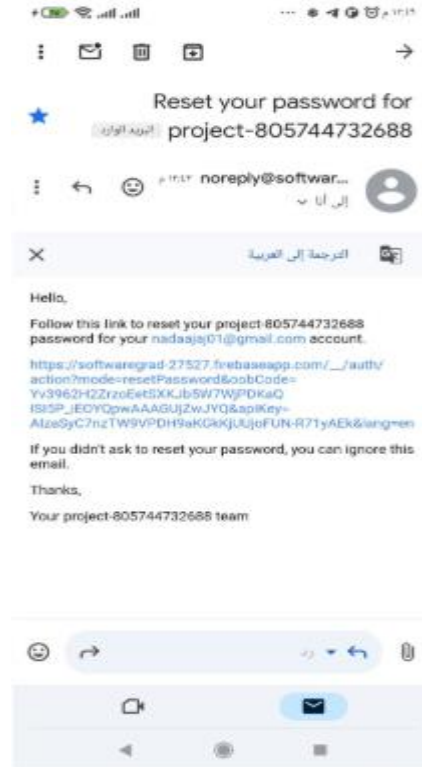


Figure 46: change password2

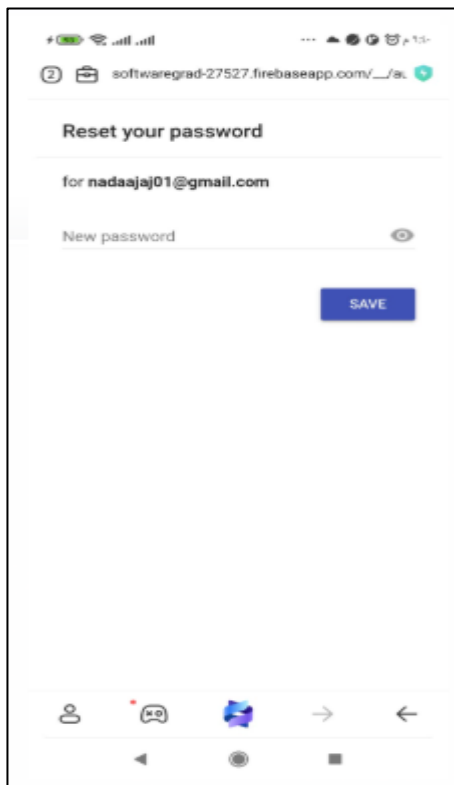


Figure 47: change password3

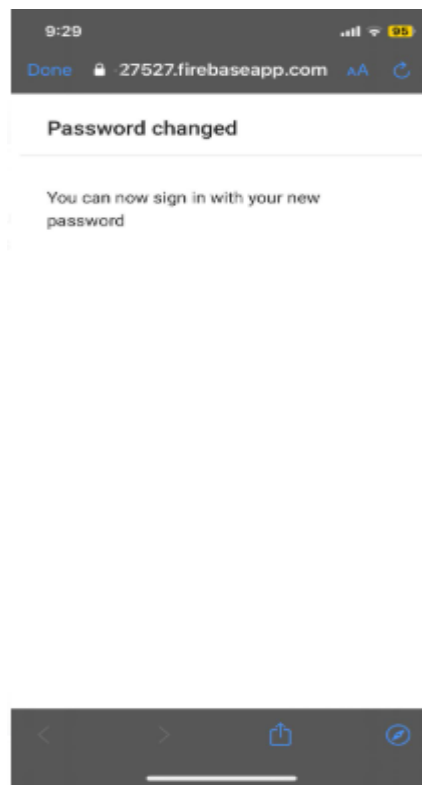


Figure 48: change password4

❖ Exchange Book screen:

This page allows users to see the books available for exchange. It shows a picture of the book, its title, whether it is available or reserved, and the name and city of the book owner. as shown in Figure 49.



Figure 49: exchange book

❖ Add a book for exchange screen:

The user can also display his book for exchange by pressing the add button in the lower corner of the screen. The user will then be taken to the book addition page. The user must enter a picture of the book, its name, a description of it, the user's phone number and address by entering the name of the city and choosing the location through the map as shown in the Figure 50, 51,52, 53.



Figure 50: exchange1



Figure 52: exchange2



Figure 52: exchange3



Figure 54: exchange4

❖ Book Exchange details screen:

When the user clicks on a book, they are directed to a book details page, where they can view information about the book, such as its name, description, the book owner's name, phone number, and address. This enables the user to visit and obtain the book as shown in Figure 55.

Additionally, the user can access the book owner's location on a map by clicking the "الحصول على الموقع من الخريطة" button as shown in Figure 56. The user can also reserve the book by clicking the "احجز الكتاب" button, which sends a notification to the book owner indicating that their book has been reserved by the user as shown in Figure 57.

Furthermore, the user can initiate a chat with the book owner by clicking the "Chat" button.



Figure 55: exchange details1

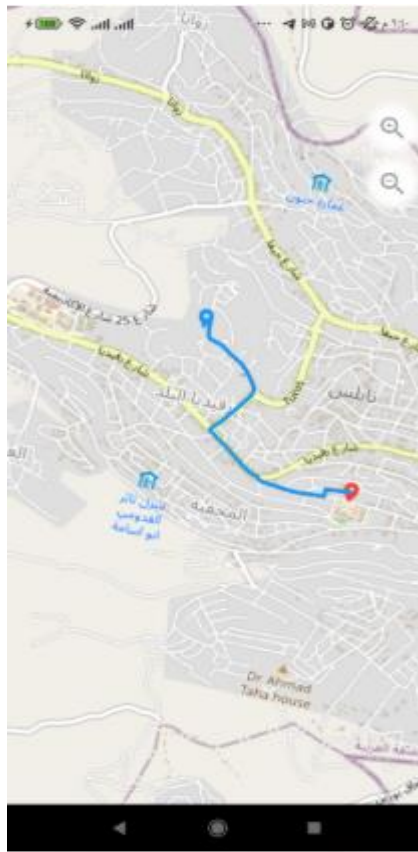


Figure 56: exchange details2

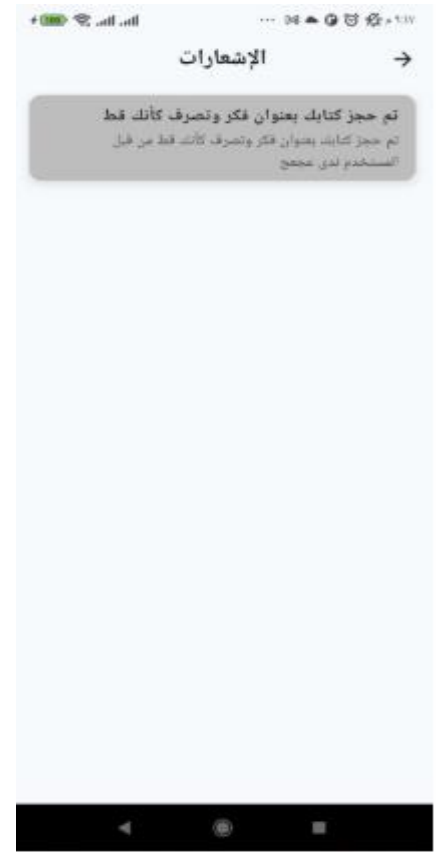


Figure 57: exchange details3

❖ Used Books Selling screen:

This page enables users to display their used books for sale on the store, but there are some conditions: First, the book must be in good condition. Second, the user must have purchased the book from the store we followed. Third, the store receives 10% as a commission. Finally, the price of the book is reduced by 10% from its original price in the store as shown in Figure 58 and Figure 59.



Figure 58: sell book1



Figure 59: sell book2

The user must enter the name of the book that he wants to offer for sale. If the user is an actual purchaser of the book, the book will be accepted and added to the store as shown in Figure 60, after that, the book will be displayed in used bookshops belonging to the same book category as shown in Figure 61. However, if he did not purchase it from the site, it will be rejected, and if he enters a book that is not on the site as well, it will be rejected as shown in Figure 62.



Figure 60: accept book



Figure 61: display used book



Figure 62: reject book

❖ About us screen:



Figure 63: About us screen



Figure 64: About us screen



Figure 65: About us screen

❖ Search screen:

user can press on search icon exist in 'top navigation bar' to about any book he needs by using book name as shown in Figure 67, description, author name as shown in Figure 68 and book category as shown in Figure 69. When user start to write our search system will help the user by give suggestions about what to continue write as shown in Figure 70 and Figure 71.

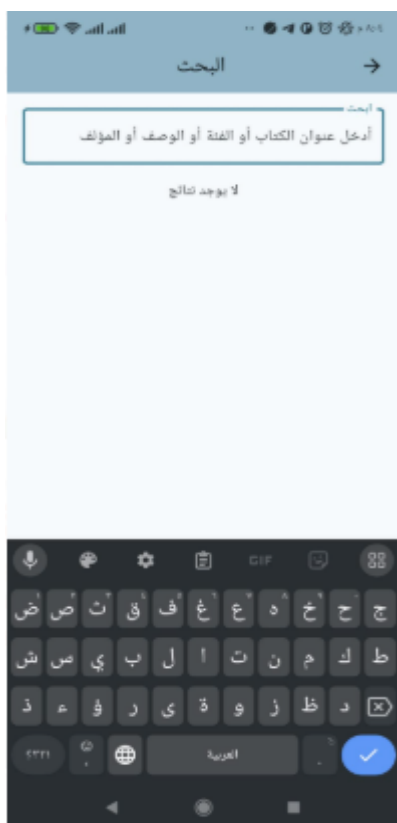


Figure 66: search



Figure 67: book name search



Figure 68: author name search



Figure 69: category search



Figure 70: search suggestion1



Figure 71: search suggestion

❖ Result of search screen:

When user press on the book from search suggestion in our case ' فكر وتصرف كأنك قط ' then he will navigate to the book details screen as shown in Figure 72.

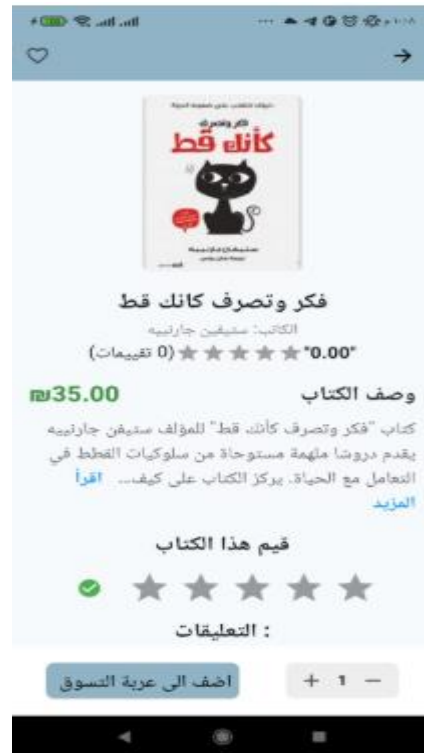


Figure 72: Result of search screen

❖ Notification screen:

user can press on notification icon exist in 'top navigation bar' to see all notification as shown in Figure 73, the Notifications page allows users to keep track of all updates and activities on their account in a simple and organized way. New notifications appear with a gray background, while read ones have a white background for easy distinction. The page displays details such as book reservations, new additions, and updates related to sales and purchases. Notifications are arranged chronologically, with the most recent ones at the top, and the design focuses on clarity and ease of use shown in Figure 74.



Figure 73: unread notification number



Figure 74: notification screen

❖ Bottom Navigation Bar:

- Contains four icons for quick access to the following sections:
- Home: To return to the main page as we describe it above.
- Cart: To view books added to the shopping cart.
- Favorites: To check saved books.
- Profile: To manage the user account.

❖ Shopping cart screen:

user can press on cart icon exist in 'bottom navigation bar' to see all books added to his shopping cart as shown in Figure 75.

Also, user can increase quantity for each book by click on plus icon and can decrease it by click on minus icon.

If user try to increase quantity more than what in stock Then application will print to user message to show Failed increase quantity as shown in Figure 76.



Figure 75: Shopping cart screen



Figure 76: SOLD OUT

user can select the books he wants to buy by placing a checkbox then the total price will display automatically as shown in Figure 77. Also, user can remove plant by press on icon remove as shown in Figure 78.



Figure 77: Shopping cart total price



Figure78: success remove from shopping

❖ Shipping Address screen:

After user select the books that he needs to buy then he can click on ' تأكيد الطلب ' button as shown in Figure 79.

After that ' عنوان التوصيل ' will appear with user information as shown in Figure 80. Also, user can change all this information as he need.



Figure 79: Shopping cart total price

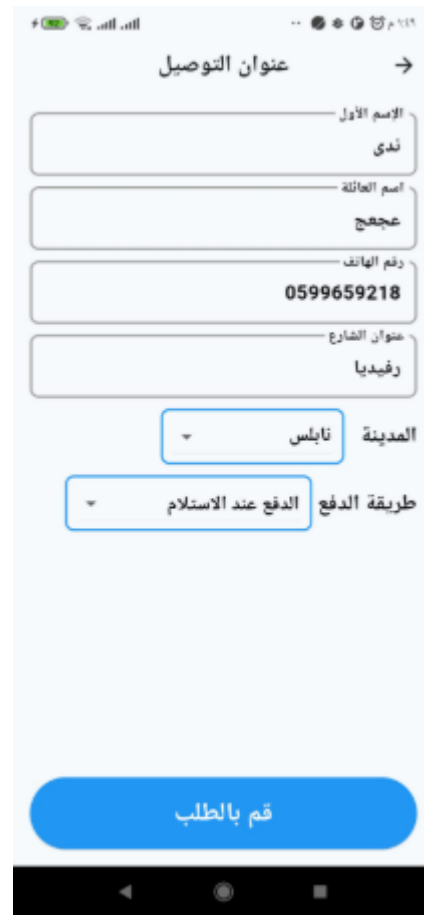


Figure 80: shipping address

❖ Wishlist screen:

user can press on love icon exist in 'bottom navigation bar' to see all books added to his Wishlist as shown in Figure 81. Also, he can remove the book from Wishlist by click on the love icon as shown in Figure 82.

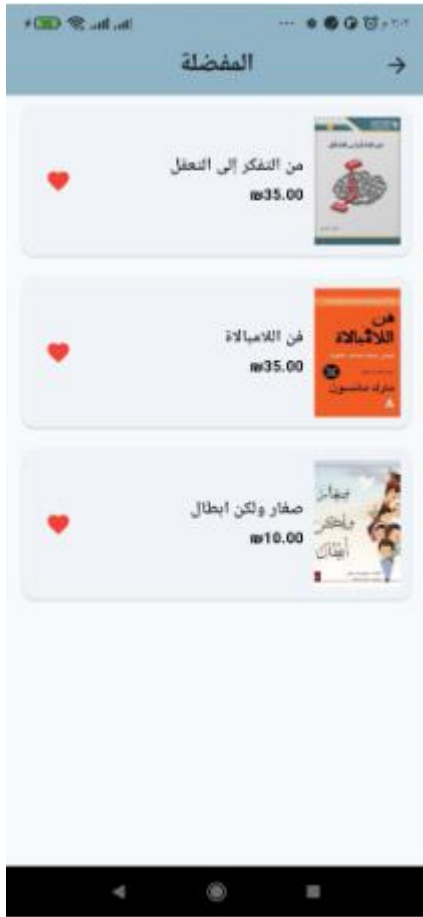


Figure 81: Wishlist icon

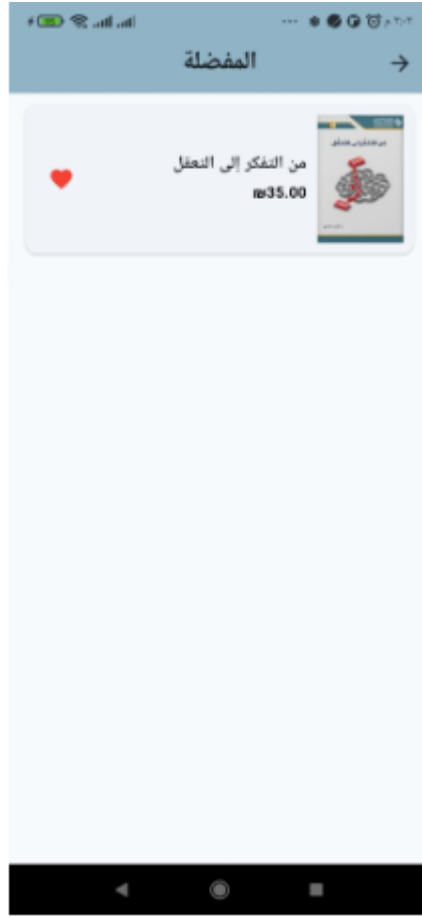


Figure 82: remove from Wishlist

4.4 Web application

Our application support user and admin web application with full access as we will explain next pages.

❖ Log in web Screen :

Users and admins can log in through the page shown in Figure 88. If an admin logs in with their account, as shown in Figure 89, the admin home page will appear on the next screen.

localhost:53854/#login

تسجيل الدخول

قم بتسجيل الدخول لمتابعة استخدام التطبيق

البريد الإلكتروني

أدخل بريدك الإلكتروني

كلمة المرور

أدخل كلمة المرور

نسيت كلمة المرور؟

تسجيل الدخول

تسجيل الدخول باستخدام Google

ليس لديك حساب؟ إنشاء حساب

Activate Windows
Go to Settings to activate Windows.

Figure 88:log in web

localhost:53854/#login

تسجيل الدخول

قم بتسجيل الدخول لمتابعة استخدام التطبيق

البريد الإلكتروني

ibtihsami9@gmail.com

كلمة المرور

أدخل كلمة المرور

نسيت كلمة المرور؟

تسجيل الدخول

تسجيل الدخول باستخدام Google

ليس لديك حساب؟ إنشاء حساب

Activate Windows
Go to Settings to activate Windows.

Figure 89:log in admin account

❖ Home admin Screen :

On the admin page, all tasks that the admin can perform or use to monitor their application are displayed in an organized and visually appealing manner. These tasks include managing books, categories, and users, tracking orders, sending notifications, and analyzing monthly sales.

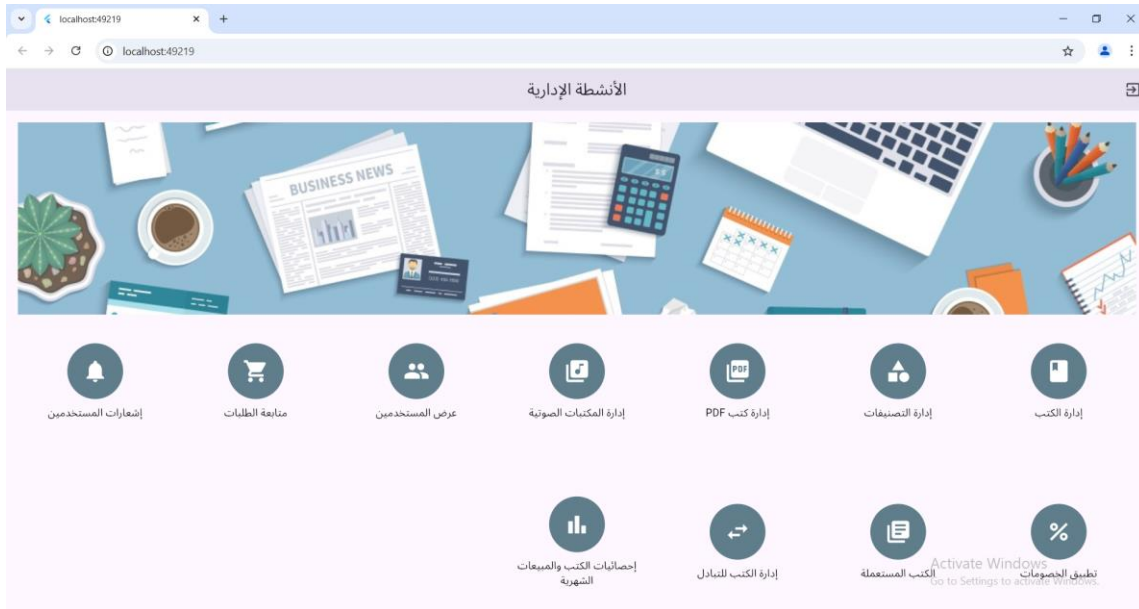


Figure 90:home admin screen

❖ Book Management screen:

If the admin wants to add a new book to a specific category, update the price or quantity of a book, or delete a book from the application, they can click on "إدارة الكتب". After clicking, all available book categories will be displayed, allowing the admin to select the desired category to perform the required action.

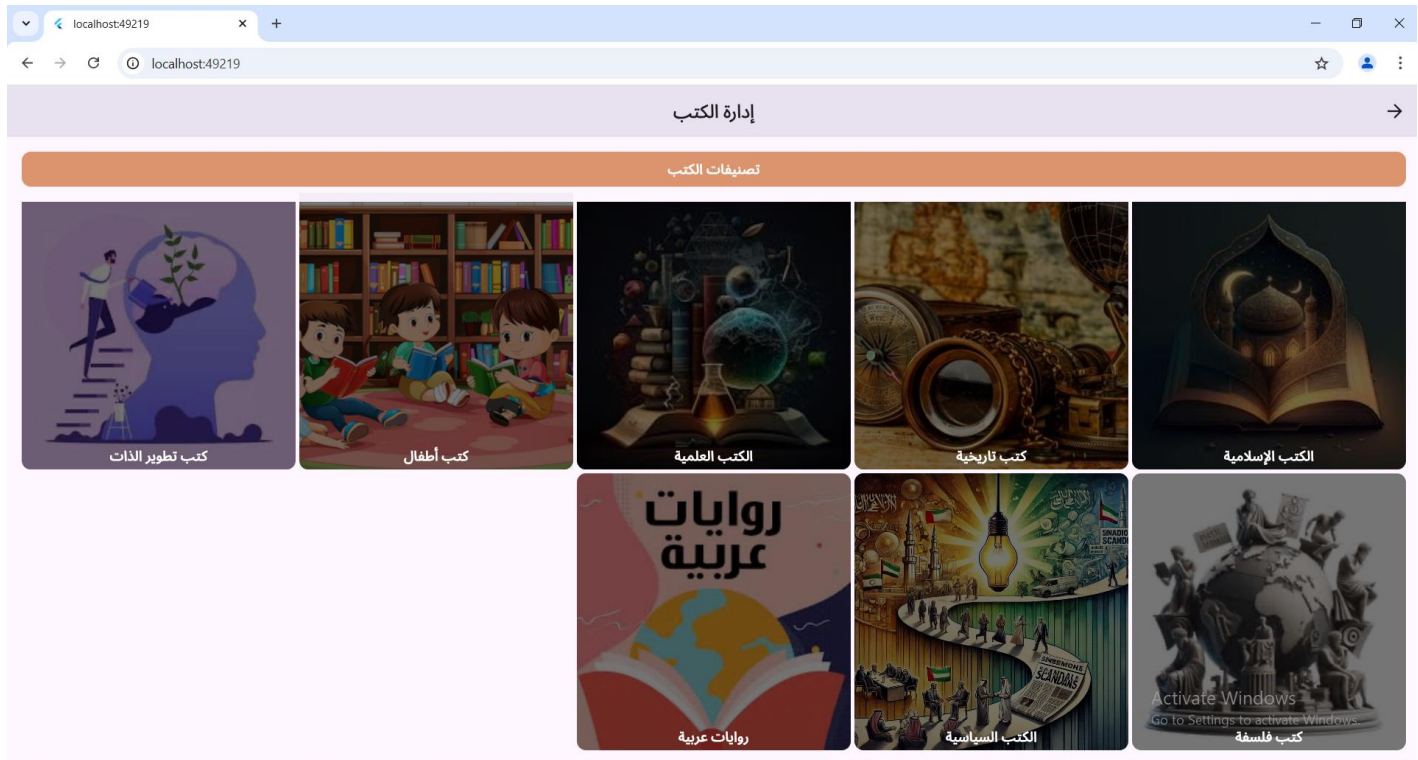


Figure 91: Book Management

When the admin clicks on the desired category, a table is displayed within it, showing all the books that belong to that category. The table should also be scrollable vertically to view more books.



Figure 92: select category

The table displays the book's image, title, description, rating, number of user reviews, quantity, and price. It also shows the actions the admin can perform, such as updating the book's quantity and price, deleting the book, or adding a new book. The design is user-friendly and intuitive, making it easy for the admin to manage the books effectively.

Book Description:

When the admin clicks on the book description, a dialog appears displaying the full description of the book.

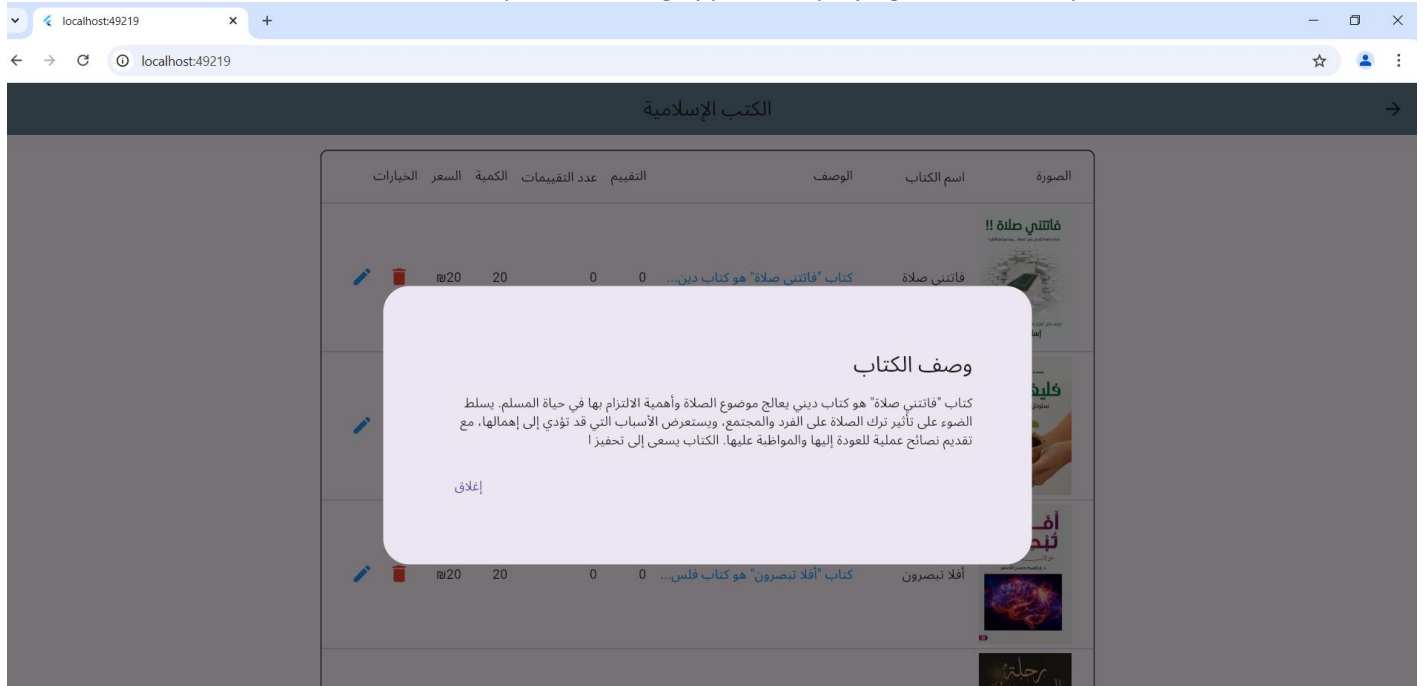


Figure 93: book description

Add book:

If the admin wants to add a new book, they can click on "Add New Book." They will then fill in the book's information and upload an image from their files by clicking on the image icon. If the quantity or price is entered as letters instead of numbers, an error message will appear, and the book cannot be added until the values are corrected. If the admin does not complete all the required fields, a message will inform them that all fields are mandatory.

Once all the information is correctly entered, the admin can click the "Add" button. The system will first check if the book already exists. If the book is not already in the database, it will be added, and a success message will be displayed. However, if the book already exists, a message will inform the admin that the book is already in the database, and it will not be added to the table.

When a new item is added, a notification is automatically sent to all users.

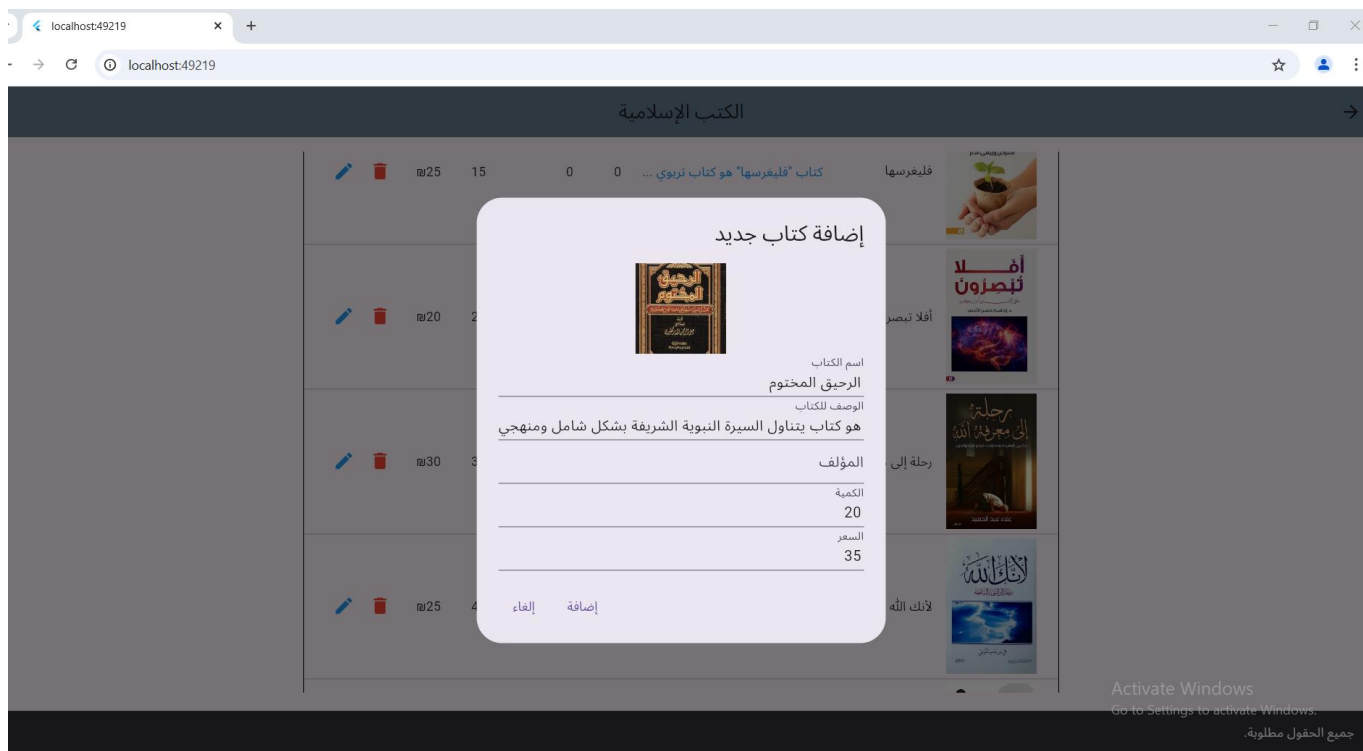


Figure 94: empty feild

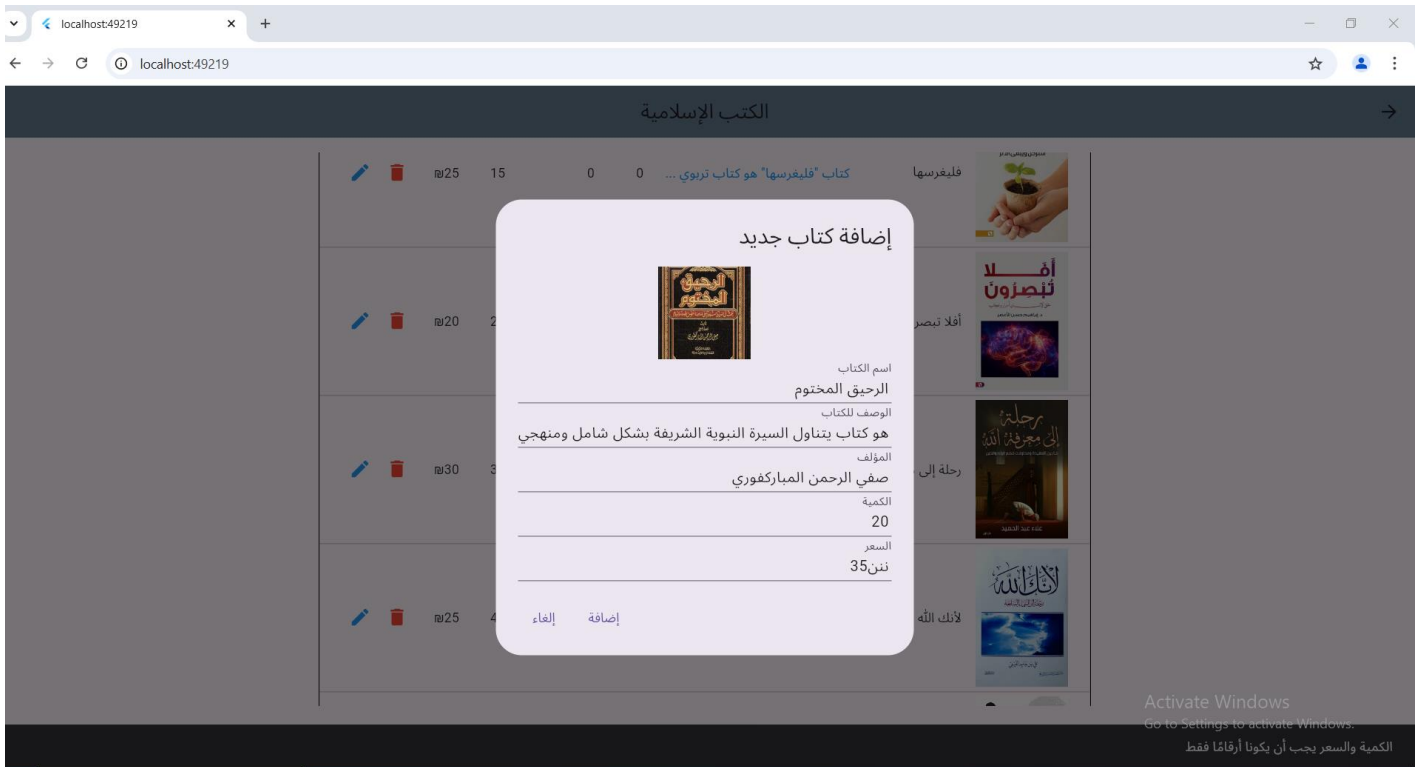


Figure 95: not a valid number.

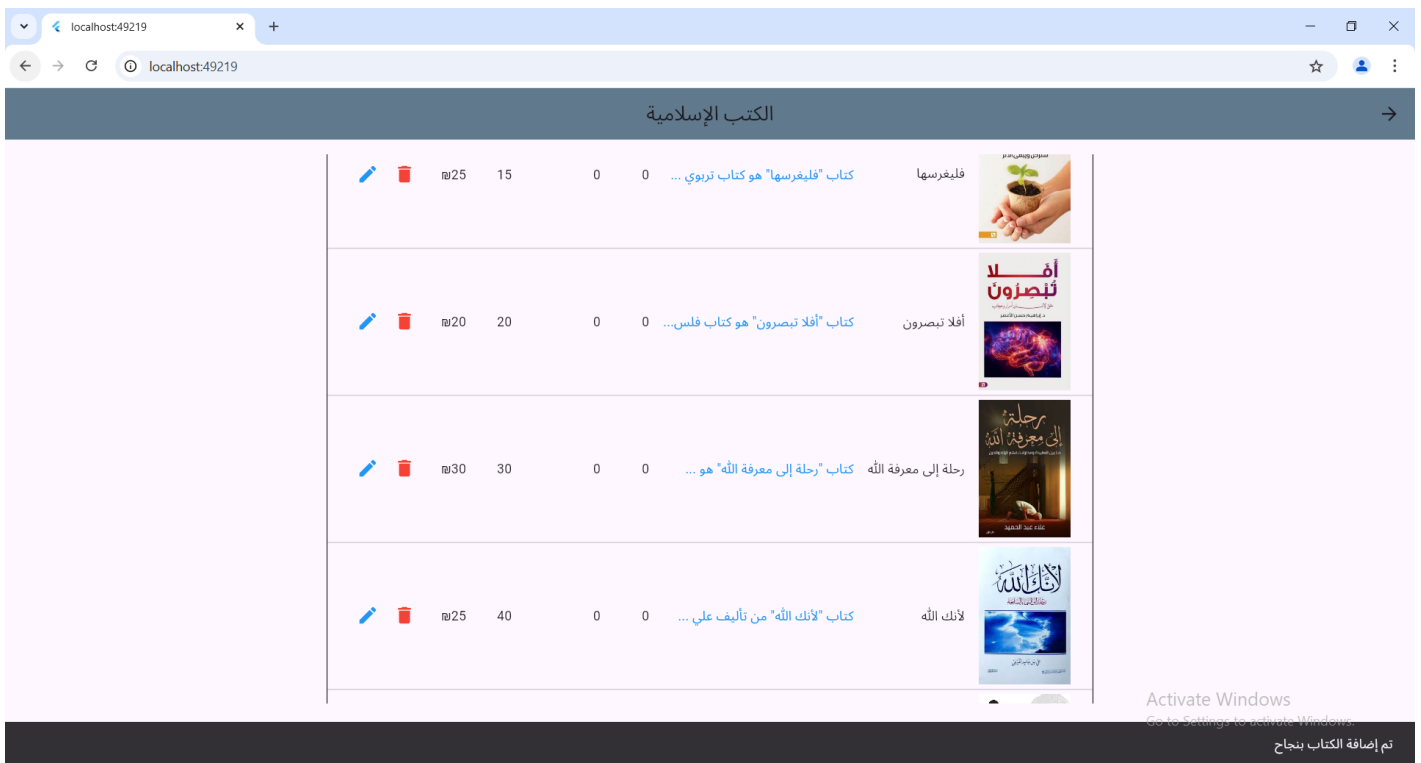


Figure 96: add book

Update book:

If the admin wants to update the quantity or price of a book, they can click on the pencil icon to edit. A dialog will appear for the admin to modify the values. After making the changes, the admin can click "Update," and a message will appear confirming that the update was successful. If there is an error, an error message will be displayed to the admin.

Update for the quantity of the added book:

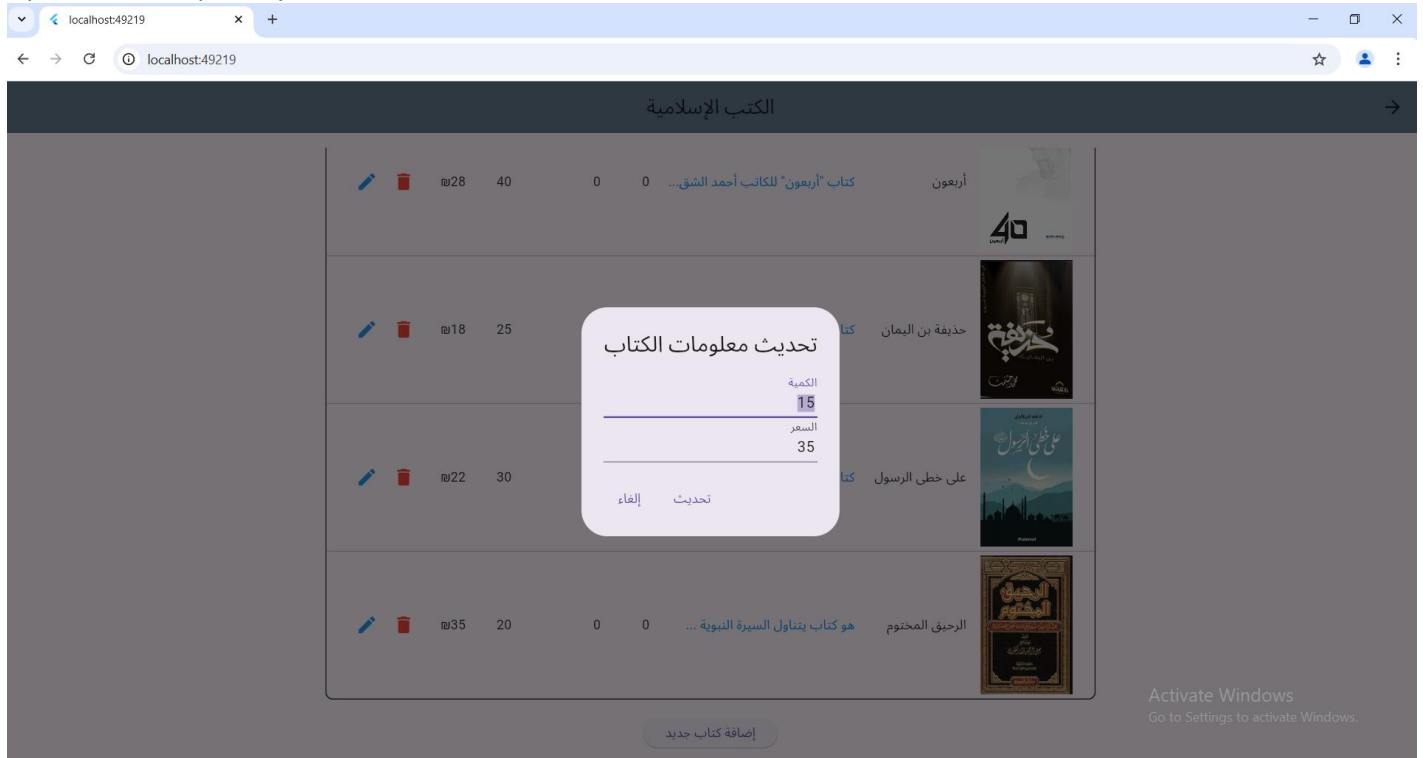


Figure 97:update book

Delete Book:

If the admin wants to delete a specific book, they can click on the delete icon. The book will be removed, and a message will appear confirming the successful deletion.

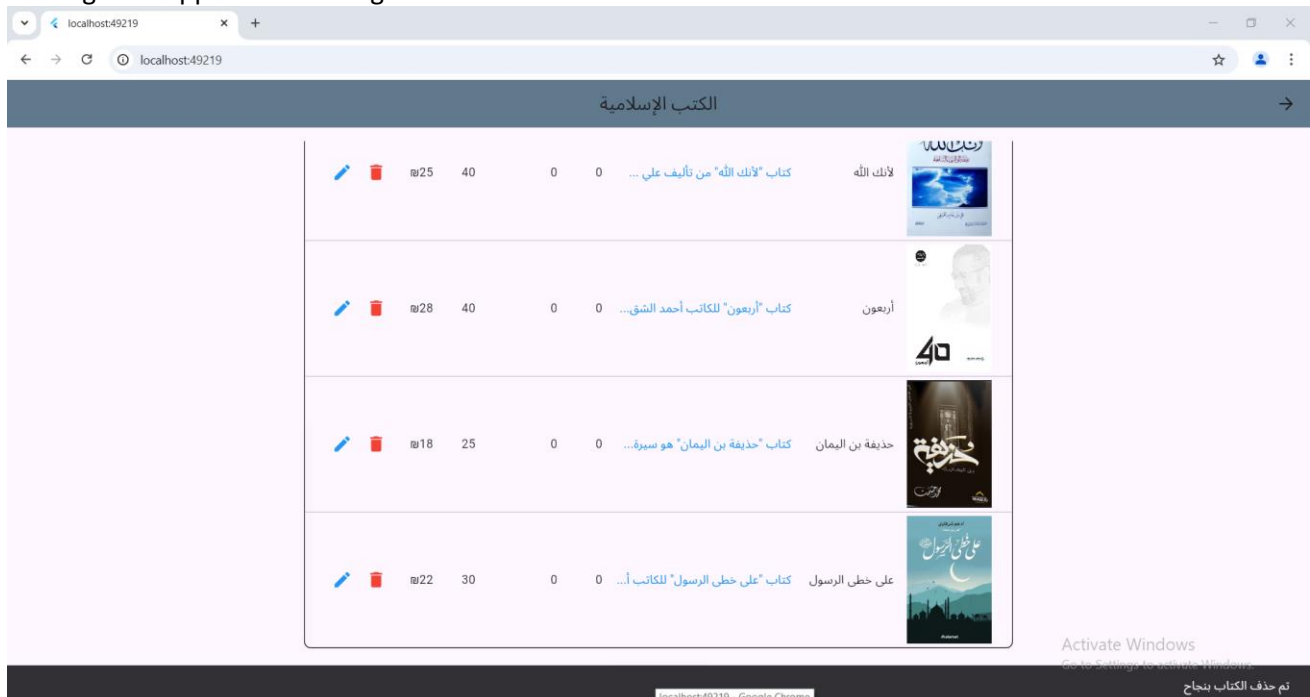


Figure 98:Delet book

❖ Category Management screen:

If the admin wants to add a new category, they can click on "Manage Categories." A new page will open, displaying a table with all the available categories. The admin can also add a new category or delete an existing one.



Figure 99:categories screen

Add category:

When the admin wants to add a new category, they can click on "إضافة تصنيف جديد". A dialog will appear where the admin can enter the category name and upload an image from their files. After filling in the details, the admin clicks "إضافة".

The system will then check if the category already exists. If it does, the category will not be added, and a message will notify the admin that the category already exists. If it does not exist, the category will be added successfully, and a confirmation message will appear.

When a new item is added, a notification is automatically sent to all users.

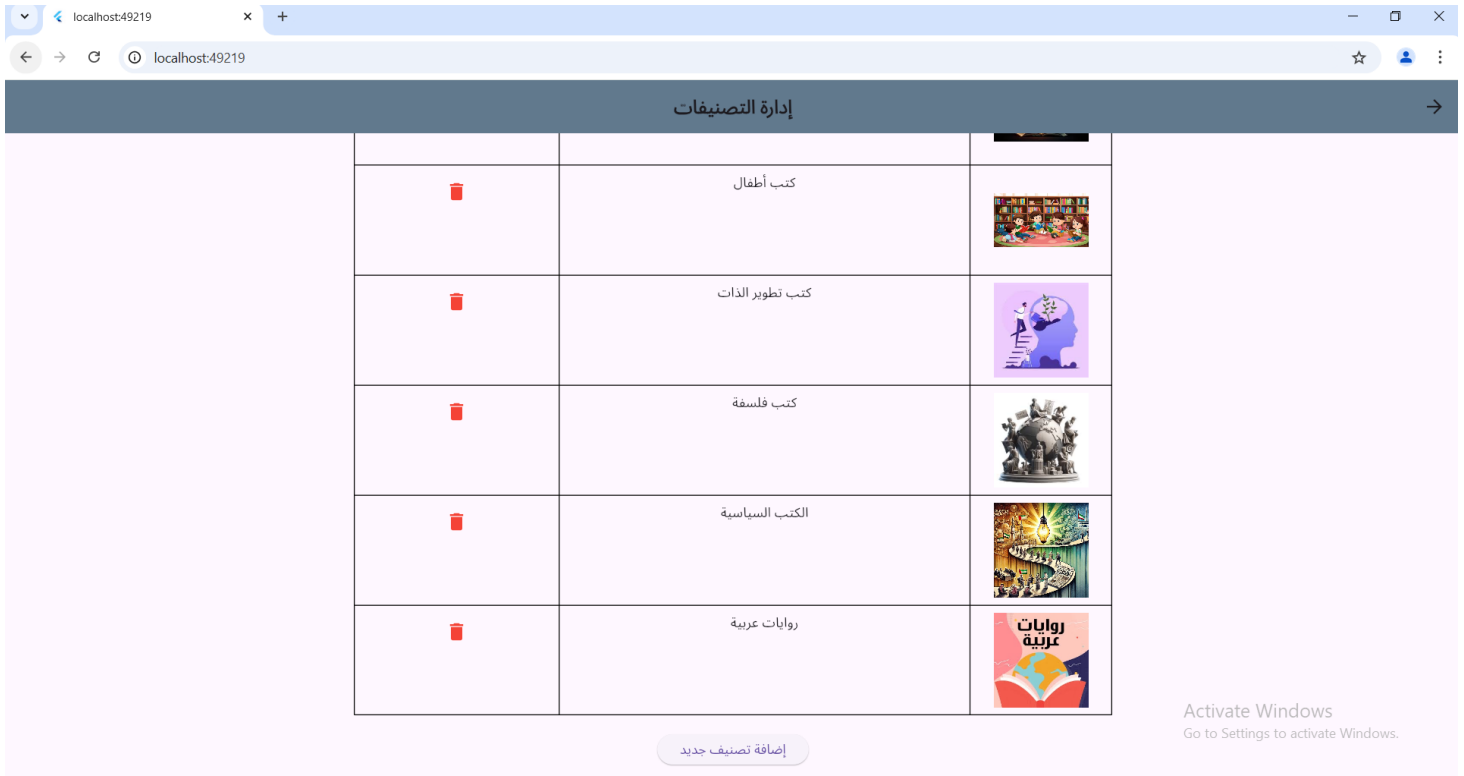


Figure 100: Add Category Button

Attempting to add a category that already exists.

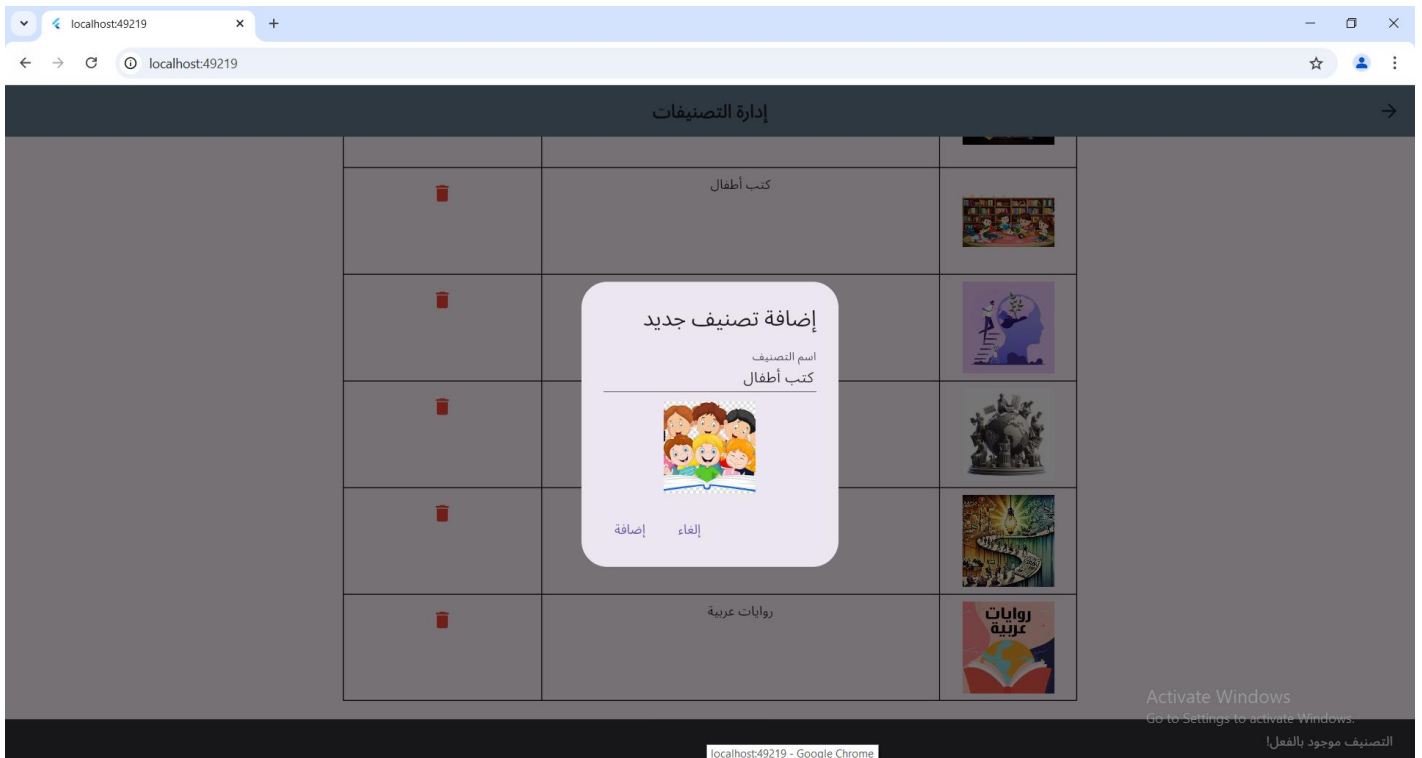


Figure 101: category already exists

Add new category:

The screenshot shows a web browser window with the URL localhost:49219. The page title is "إدارة التصنيفات" (Category Management). A modal dialog is open in the center, titled "إضافة تصنيف جديد" (Add New Category). The modal contains a form with the following fields:

- اسم التصنيف (Category Name): علم النفس (Psychology)
- علم النفس (Psychology) - This is the category name entered in the field above.
- إضافة (Add) and إلقاء (Cancel) buttons.

The background shows a table with the following categories:

Category Name	Image
كتب أطفال (Children's Books)	[Image of children's books]
علم النفس (Psychology)	[Image of a brain]
علم النفس (Psychology)	[Image of a brain]
روايات عربية (Arabic Novels)	[Image of Arabic novels]

At the bottom of the modal, there is a button labeled "إضافة تصنيف جديد" (Add New Category).

Figure 102: add new category

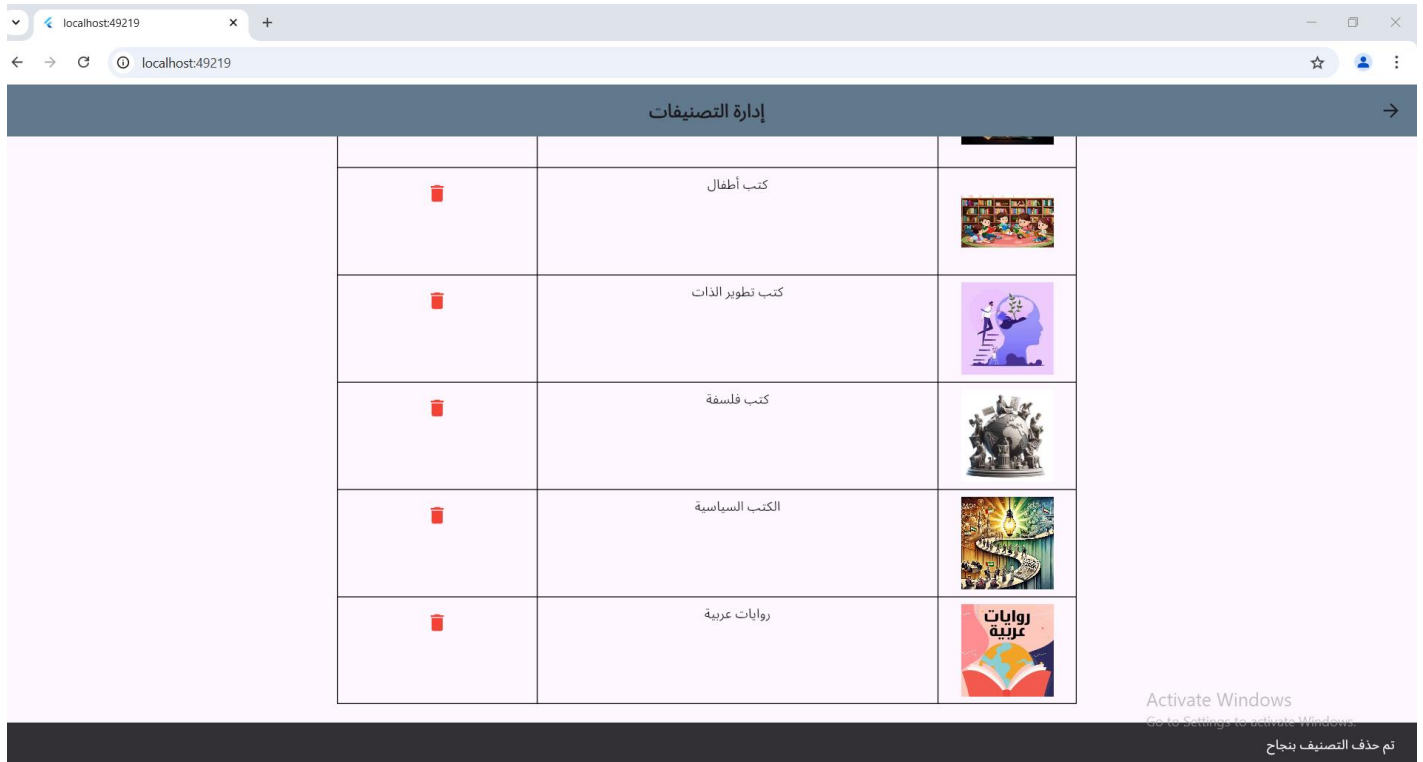
The screenshot shows the same web browser window with the URL localhost:49219. The page title is "إدارة التصنيفات" (Category Management). The modal dialog is no longer present. The table now shows the following categories:

Category Name	Image
كتب أطفال (Children's Books)	[Image of children's books]
كتب تطوير الذات (Self-development Books)	[Image of a brain]
كتب فلسفة (Philosophy Books)	[Image of a brain]
الكتب السياسية (Political Books)	[Image of a brain]
روايات عربية (Arabic Novels)	[Image of Arabic novels]
علم النفس (Psychology)	[Image of a brain]

At the bottom of the page, there is a message: "تم إضافة التصنيف بنجاح" (Category added successfully).

Delete category:

If the admin wants to delete a category, they can click on the delete icon. The category will be removed from the database and the table will be updated immediately and all books belonging to this category will also be deleted. A message will appear confirming that the deletion was successful.



The screenshot shows a web browser window with the URL localhost:49219. The page title is "إدارة التصنيفات" (Manage Categories). It displays a table with five rows, each representing a book category. Each row contains a red trash can icon in the first column, the category name in the second column, and a representative image in the third column. The categories are: "كتب أطفال" (Children's Books), "كتب تطوير الذات" (Self-development Books), "كتب فلسفة" (Philosophy Books), "الكتب السياسية" (Political Books), and "روايات عربية" (Arabic Novels). The table is set against a light pink background. At the bottom right of the page, there is a watermark for "Activate Windows" and a message in Arabic: "تم حذف التصنيف بنجاح" (Category deleted successfully).











	كتب أطفال	
	كتب تطوير الذات	
	كتب فلسفة	
	الكتب السياسية	
	روايات عربية	

Figure 103:delete category

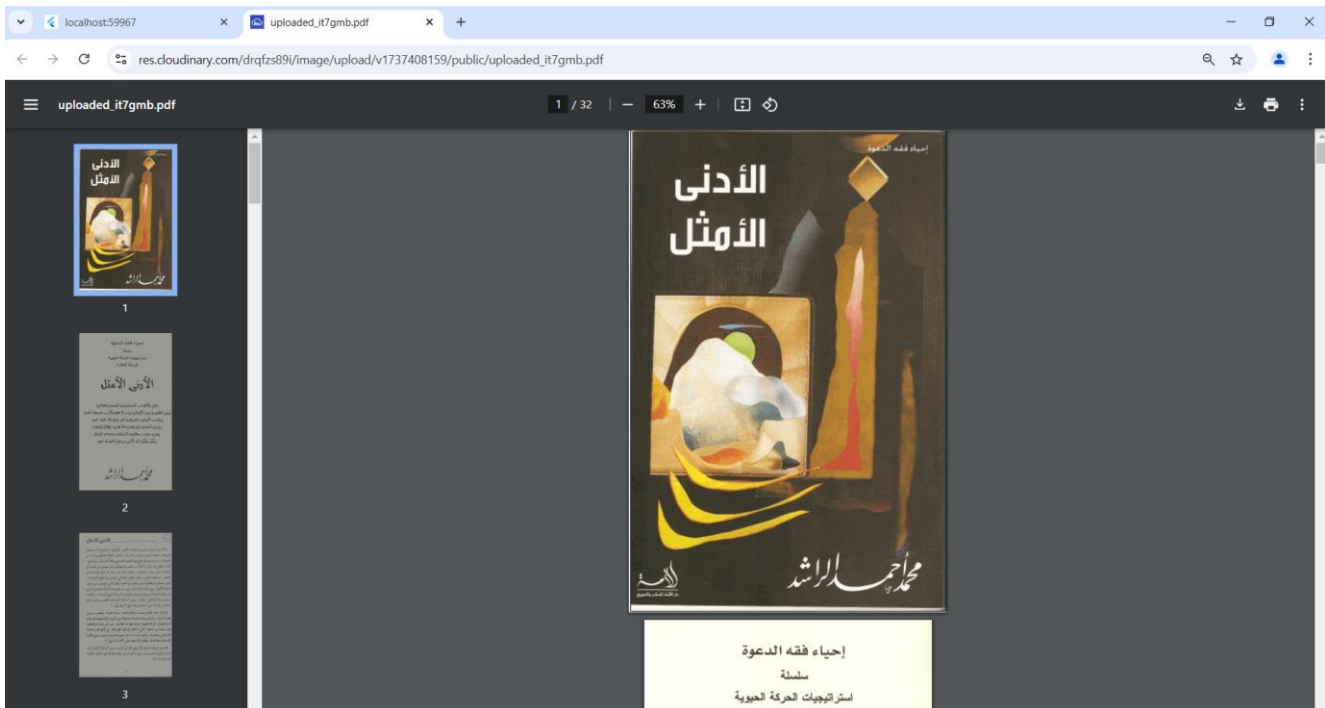
❖ PDF Book Management:

If the admin wants to manage PDF books, they can click on "إدارة كتب PDF" and a table will appear containing all the books that have been added previously. The table will display the book's image, name, description, author, rating, and the number of reviewers. It will also show the actions that the admin can perform, such as deleting, adding, or modifying the books. Additionally, there will be a button labeled "PDF," and when clicked, it will open the PDF file of the book.



الصورة	اسم الكتاب	الوصف	المؤلف	التقييم	عدد التقييمات	تاريخ الإضافة	الكتاب	الخيارات
	كليلة ودمنة	كتاب "كليلة ودمنة" لعبد الله ب...	عبدالله بن المقفع	0	0	18:45:09 2025-01-20	PDF	 
	أنت لي	رواية أنت لي الجزء 1 تأليف منى...	منى المرشود	0	0	18:48:17 2025-01-20	PDF	 
	قوة التفكير الإيجابي	هل تعاني من الإحباط والفشل؟ هل...	نورمان بيل	0	0	19:10:30 2025-01-20	PDF	 
	رجال من التاريخ	فصول هذا الكتاب كانت في الأصل...	علي الطنطاوي	0	0	19:16:42 2025-01-20	PDF	 

Figure 104: Manage PDF Books screen



Add new pdf :

If the admin wants to add a new book, they can click on "إضافة كتاب PDF جديد". A dialog will appear with fields that need to be filled out to add the book, including the book's name, description, and author. The admin will also select the category the book belongs to, upload an image for the book, and upload the PDF file from the admin's files

When a new item is added, a notification is automatically sent to all users.

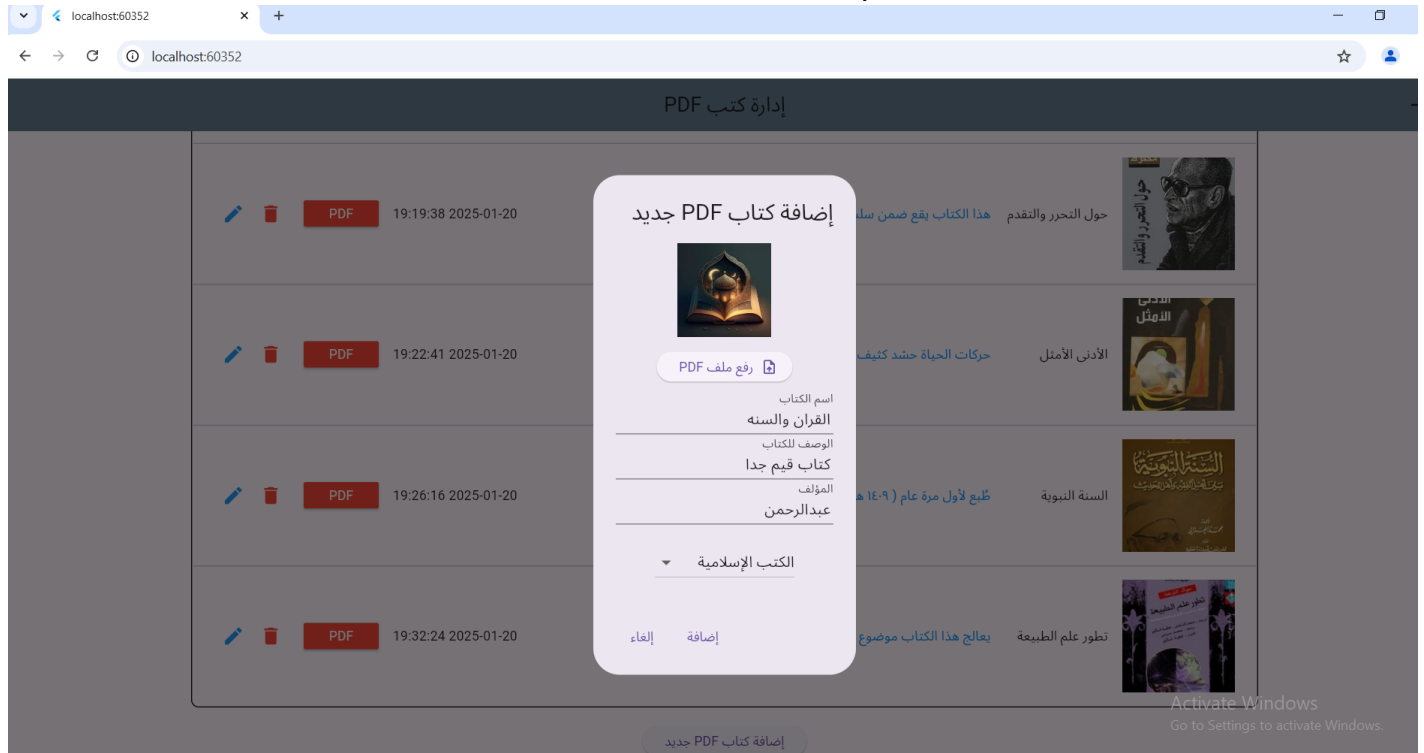


Figure 105: add pdf

Update pdf book:

If the admin wants to edit a book, they can click on the edit icon. A dialog will appear allowing them to modify the book's image, uploaded file, name, author, description, or category. After making the changes, the admin will press the "Update" button to update the information. A message will then appear confirming that the update was successful.

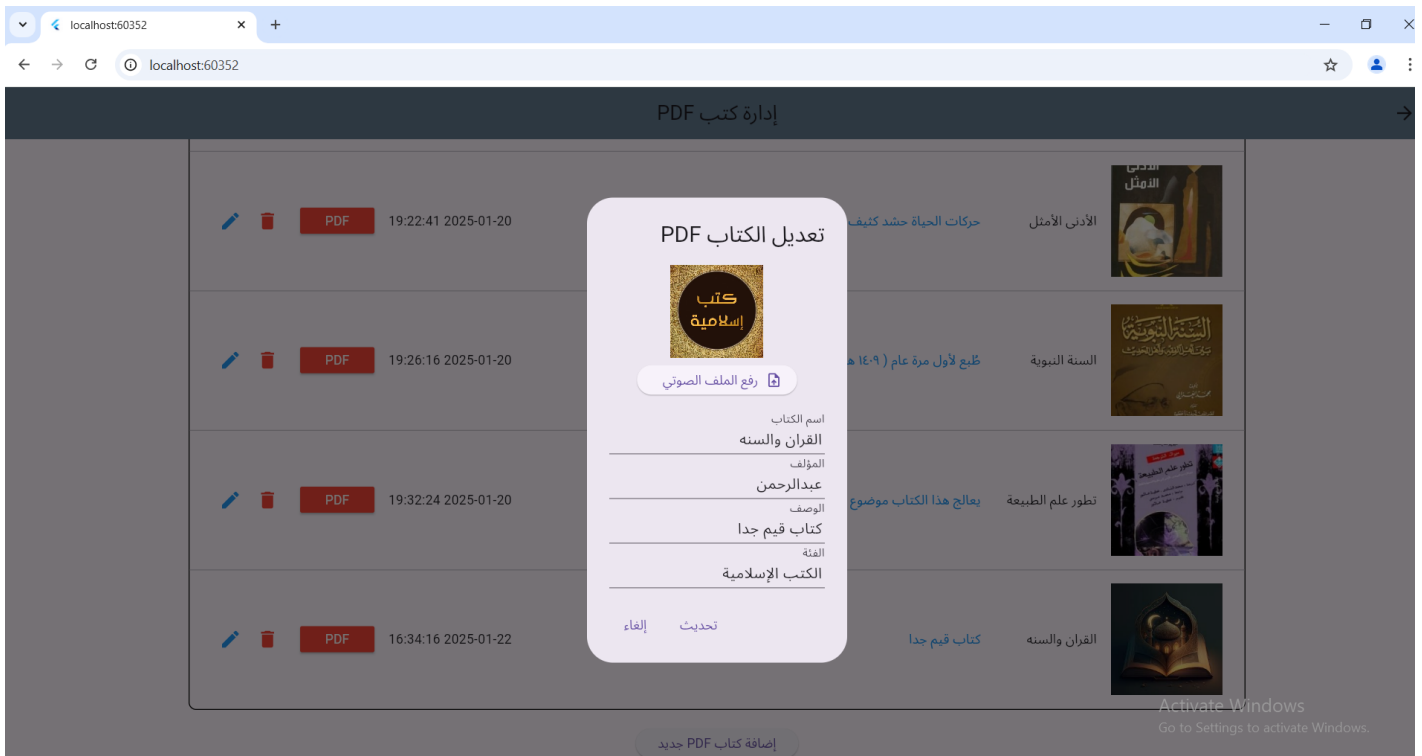


Figure 106:update(image) pdf book

Delete pdf book:

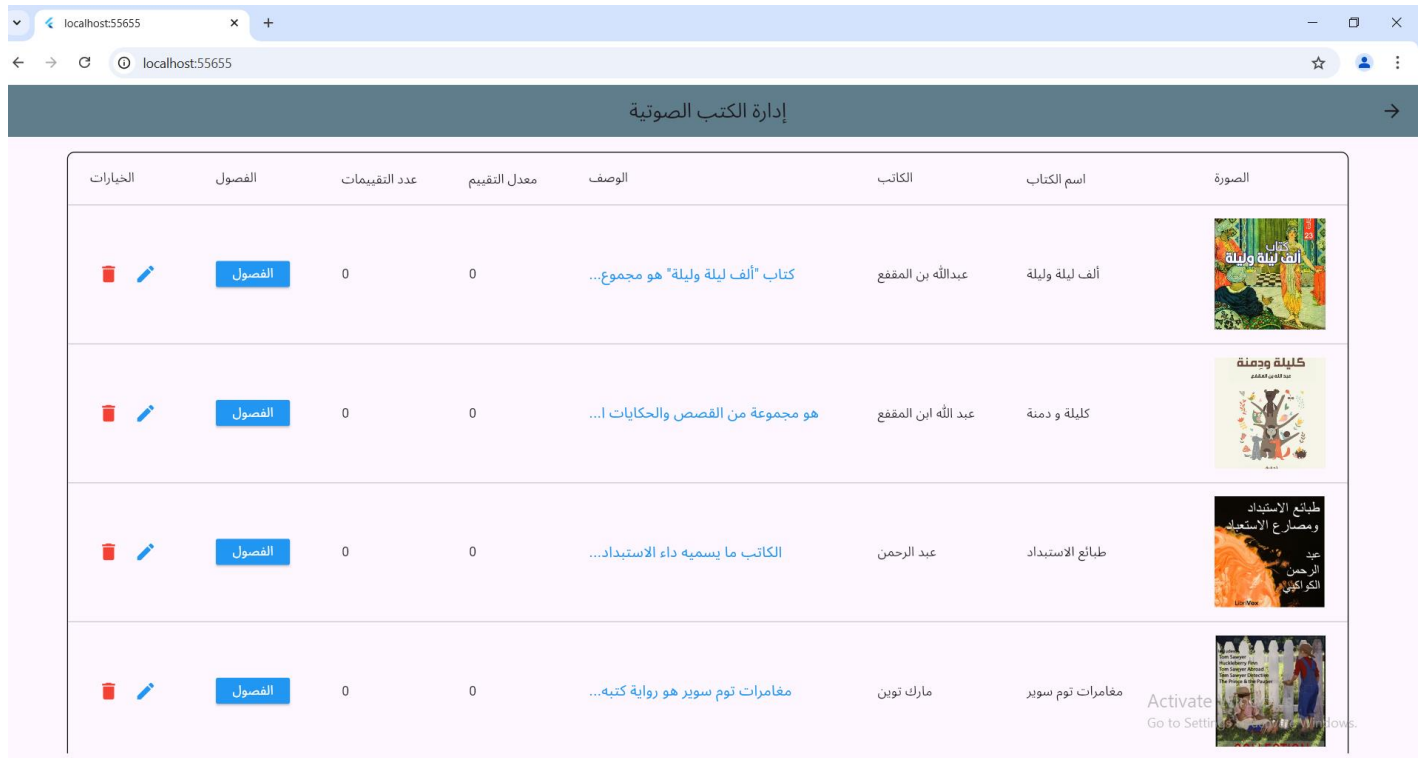
If the admin wants to delete a PDF book, they can click on the delete icon. The book will be removed from the database and the table, and a message will appear confirming to the admin that the book has been successfully deleted.



Figure 107:delete pdf book

❖ Audiobook Management:

If the admin wants to manage the audiobooks, they click on "إدارة الكتب الصوتية," which will display a table containing information about the audiobooks that have been added previously. The table will show various details about each book and also display a button labeled "الفصول" When clicked, it opens another page to display all the chapters for that specific audiobook. The audiobook management page will include all actions the admin can perform, such as adding a new audiobook, deleting an audiobook, or editing an existing audiobook.



The screenshot shows a web browser window with the URL localhost:55655. The page title is "إدارة الكتب الصوتية". The table below lists four audiobooks with their respective details and actions.













الصورة	اسم الكتاب	الكاتب	الوصف	معدل التقييم	عدد التقييمات	الفصول	الخيارات
	ألف ليلة وليلة	عبدالله بن المقفع	كتاب "ألف ليلة وليلة" هو مجموع...	0	0	الفصول	 
	كليلة ودمية	عبد الله ابن المقفع	هو مجموعة من القصص والحكايات ا...	0	0	الفصول	 
	طبائع الاستبداد	عبد الرحمن	الكاتب ما يسميه داء الاستبداد...	0	0	الفصول	 
	مغامرات توم سوير	مارك توين	مغامرات توم سوير هو رواية كتبه...	0	0	الفصول	 

Figure 108: Audiobook Management

Add audiobook:

If the admin wants to add a new audiobook, they click on "إضافة كتاب جديد" upload the book's image, and upload the MP3 file for the audiobook. They then fill in the book's details and select the category it belongs to from the dropdown menu. Finally, they click on "إضافة" and the book is added successfully. A message is displayed to the admin confirming the successful addition.

When a new item is added, a notification is automatically sent to all users.



Figure 109: Add Audiobook

Update audiobook:

If the admin wants to update the details of an audiobook, they click on the update icon, which opens a dialog to update the details. Then, they click on "تحديث" and the data in the table and the database is updated. A message is then displayed to the admin confirming the successful update.

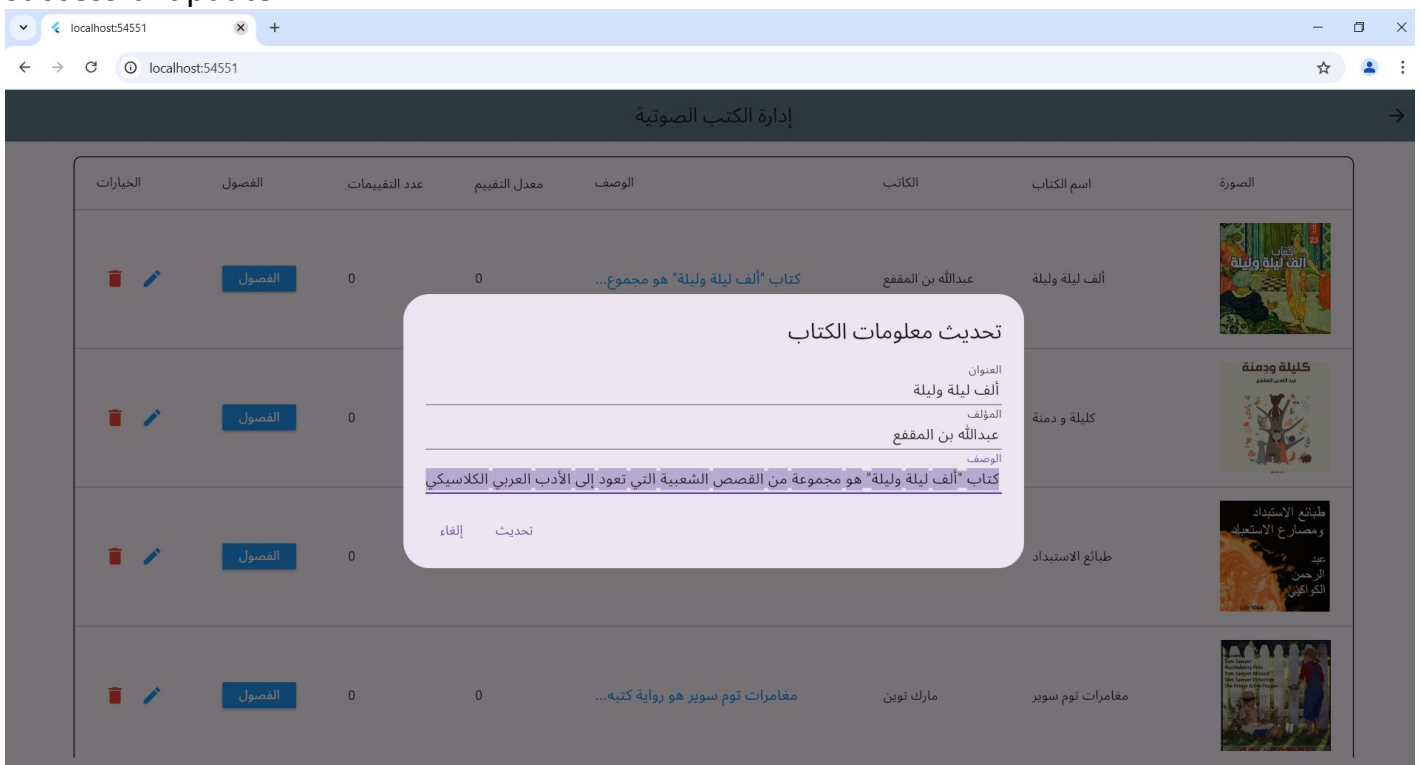


Figure 110: Update Audiobook

Delete audiobook:

If the admin wants to delete an audiobook, they click on the delete icon, which removes the audiobook along with all its associated chapters. A message is then displayed to the admin confirming the successful deletion.



Figure 111: Delete audiobook

Chapters:

When the admin clicks on "Chapters," all chapters of the book are displayed in order, showing the chapter's name, number, and duration.



Figure 112: chapters

add audiobook:

The admin can add a new chapter to the book by uploading the audio file and entering the chapter's name and number.

When a new item is added, a notification is automatically sent to all users.

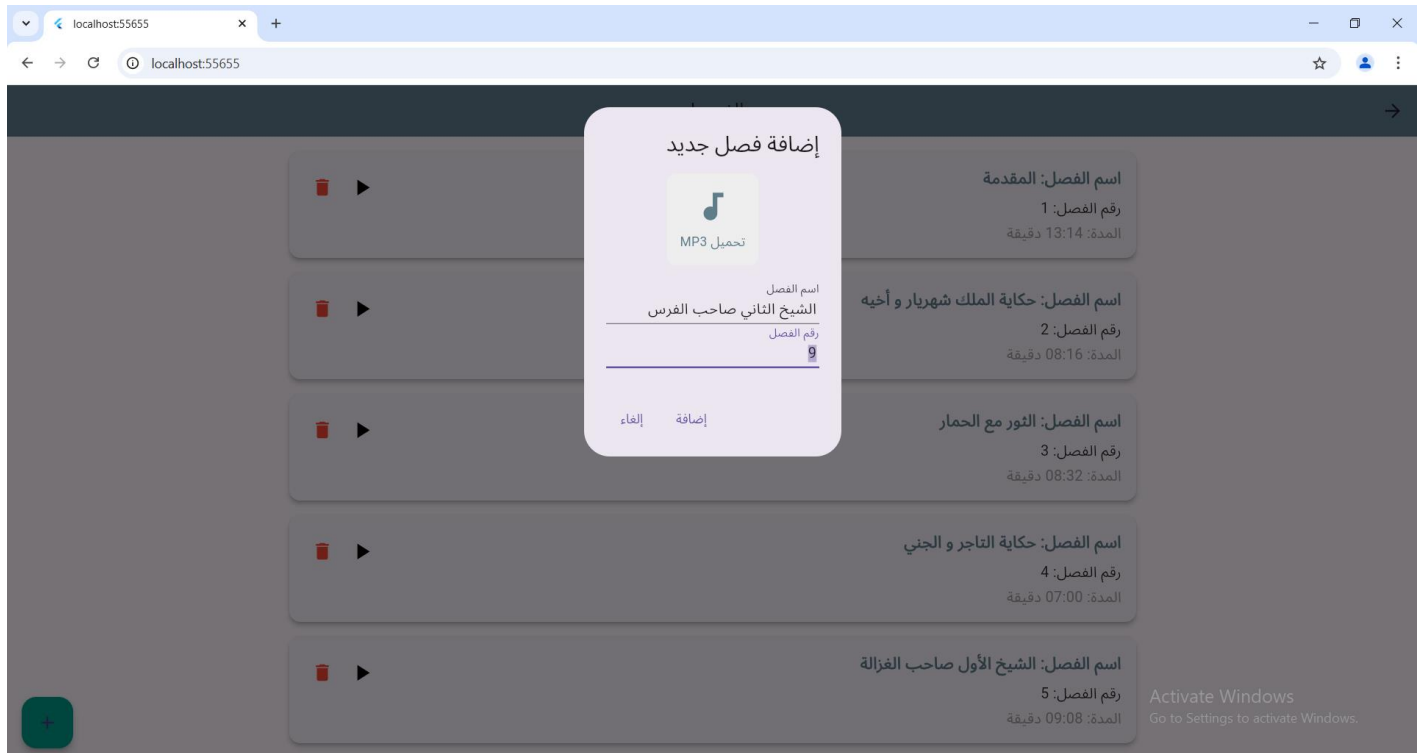


Figure 113: add audiobook

Play audiobook:

The admin can also play a chapter by clicking on the play icon.

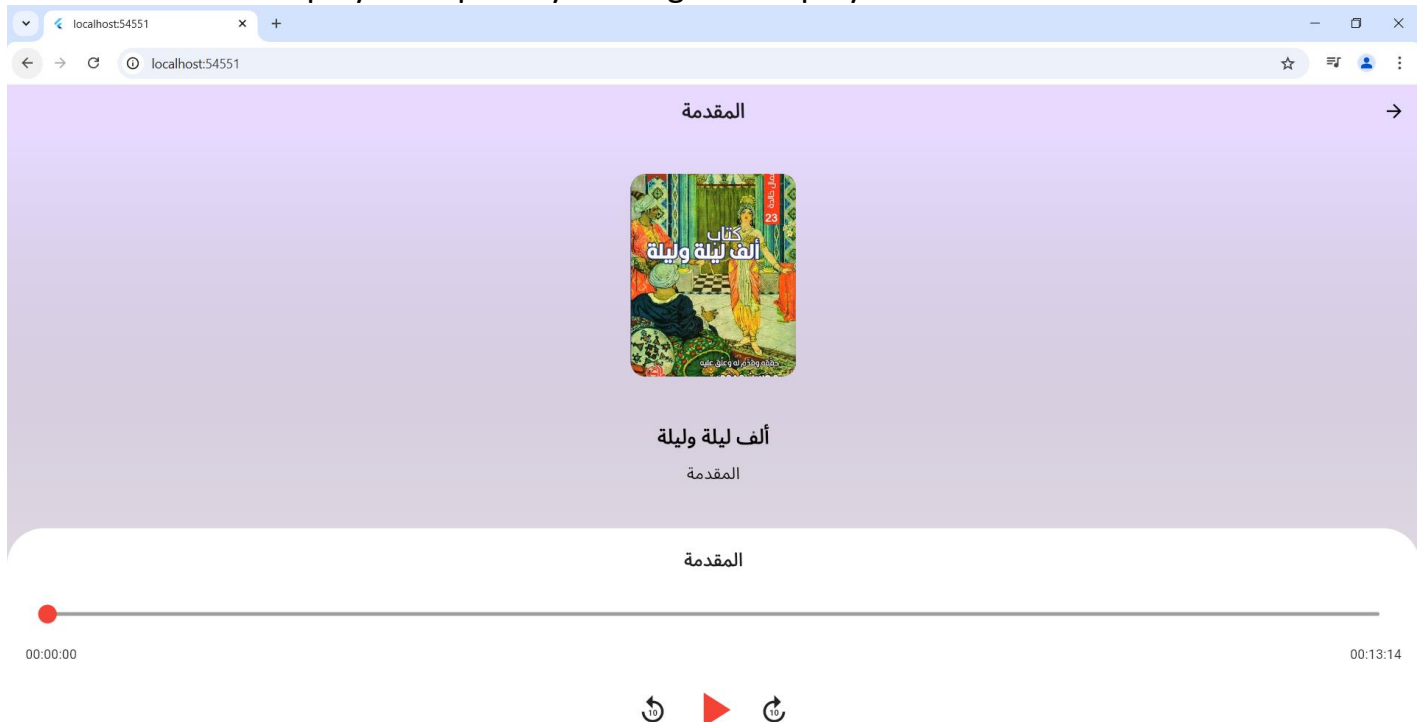


Figure 114: Play audiobook

The admin can also delete a chapter by clicking on the delete icon.



Figure 115: delete audiobook

❖ Send Notification:

Through this page, the admin can send notifications to all users. These notifications can inform users about system issues or new updates. Additionally, the admin can send messages and motivational phrases to encourage reading.

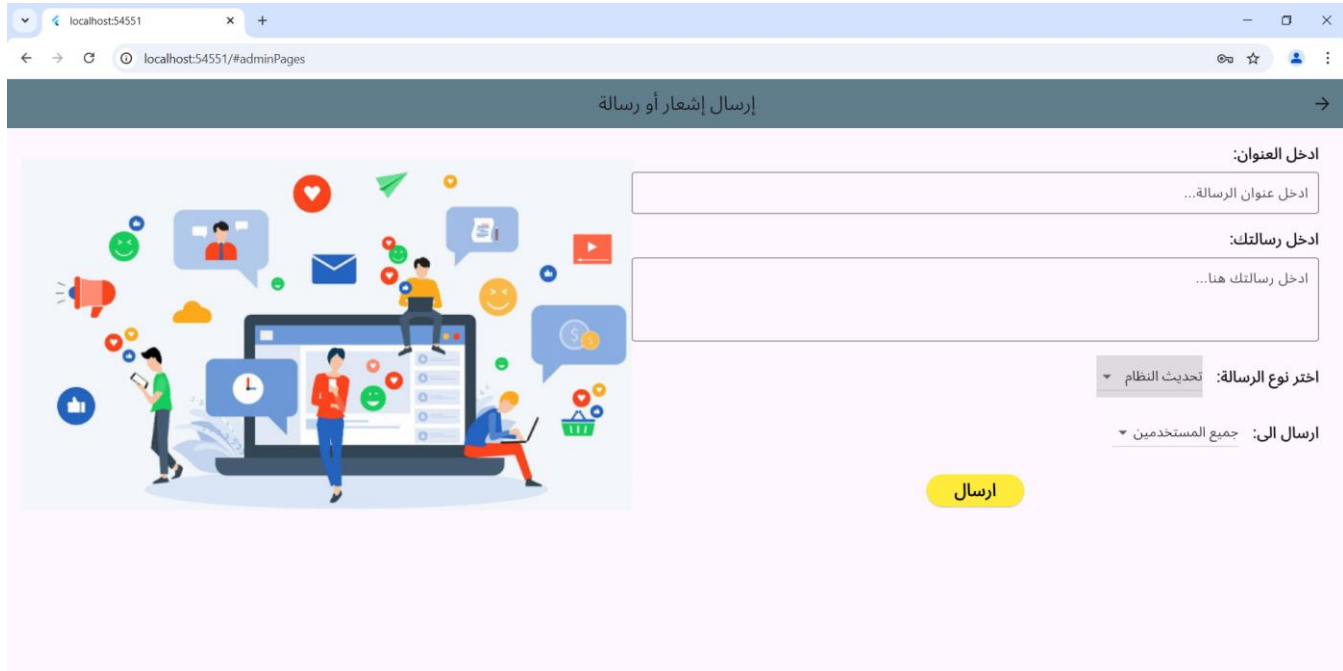


Figure 116: send notification page

Create new notification:

The admin enters the message title and content, selects the message type from the dropdown menu, and then sets the message to be sent to all users.



Figure 117: create notification

❖ Make Discount

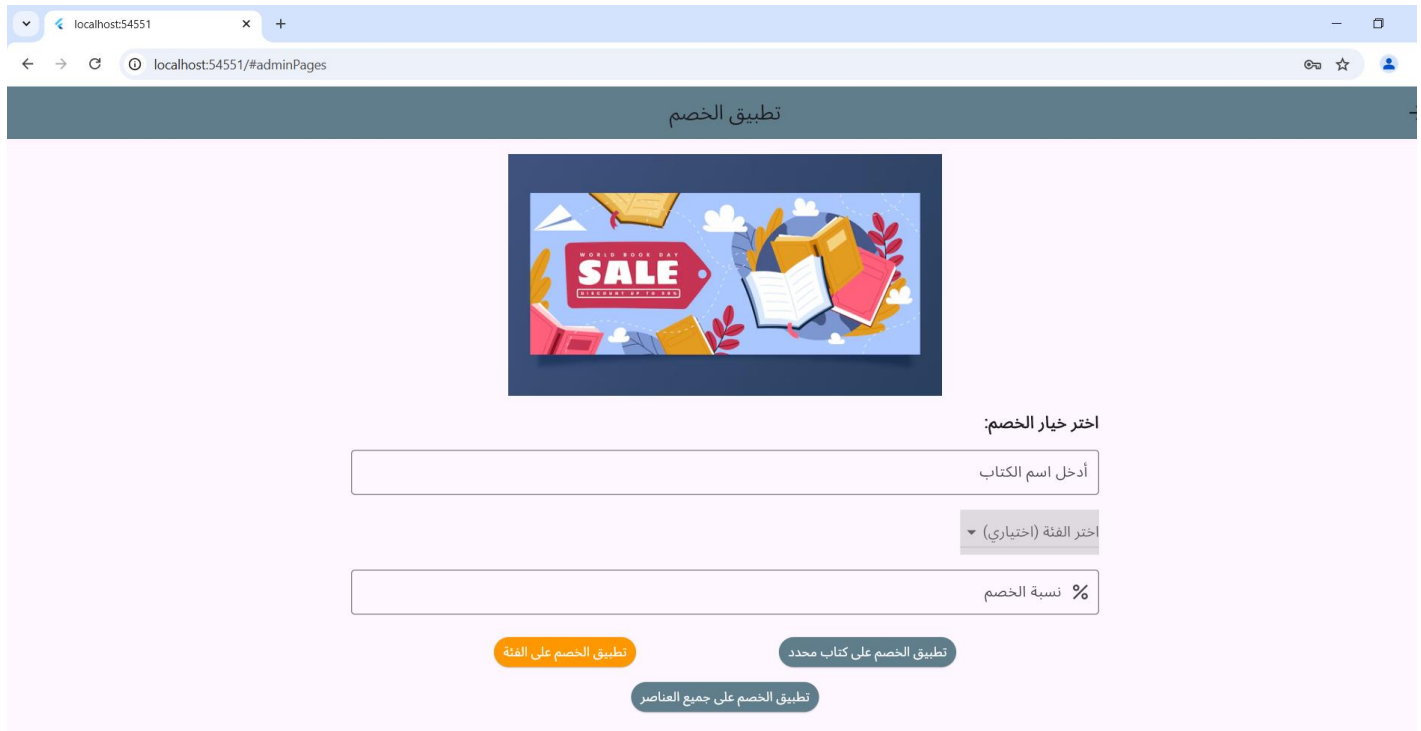
Through this page, the admin can apply discounts at a specific percentage, either to all the books available, to a specific category, or to a particular book.

If the admin wants to apply a discount to a specific book, they enter the book name, the discount value, and then click on "تطبيق الخصم على كتاب محدد"

If they want to apply the discount to a specific category, they select the category from the dropdown list containing all available categories, enter the discount value, and then click on "تطبيق الخصم على الفئة"

If they want to apply the discount to all books, they simply enter the discount value and click on "تطبيق الخصم على جميع العناصر"

When the discount is applied, a notification is automatically sent to all users, and the book appears in the discounts section.



تطبيق الخصم

اختر خيار الخصم:

أدخل اسم الكتاب

اختر الفئة (اختياري)

% نسبة الخصم

تطبيق الخصم على الفئة

تطبيق الخصم على كتاب محدد

تطبيق الخصم على جميع العناصر

Figure 118: discount

❖ View Orders

The admin can view and track all user orders by clicking on "متابعة الطلبات".

Each order is displayed inside a card, showing the user's information, order status, total order price, and the date the order was placed.



Figure 119: view orders

The admin can view the order details and quantities by clicking on the order card. This will display each item inside a card containing the name, price, and quantity of the item.



Figure 120: view orders details

The admin can update the order status by clicking on the update icon. Once the order status is updated, a notification is automatically sent to the user who placed the order, indicating the updated status of their order.

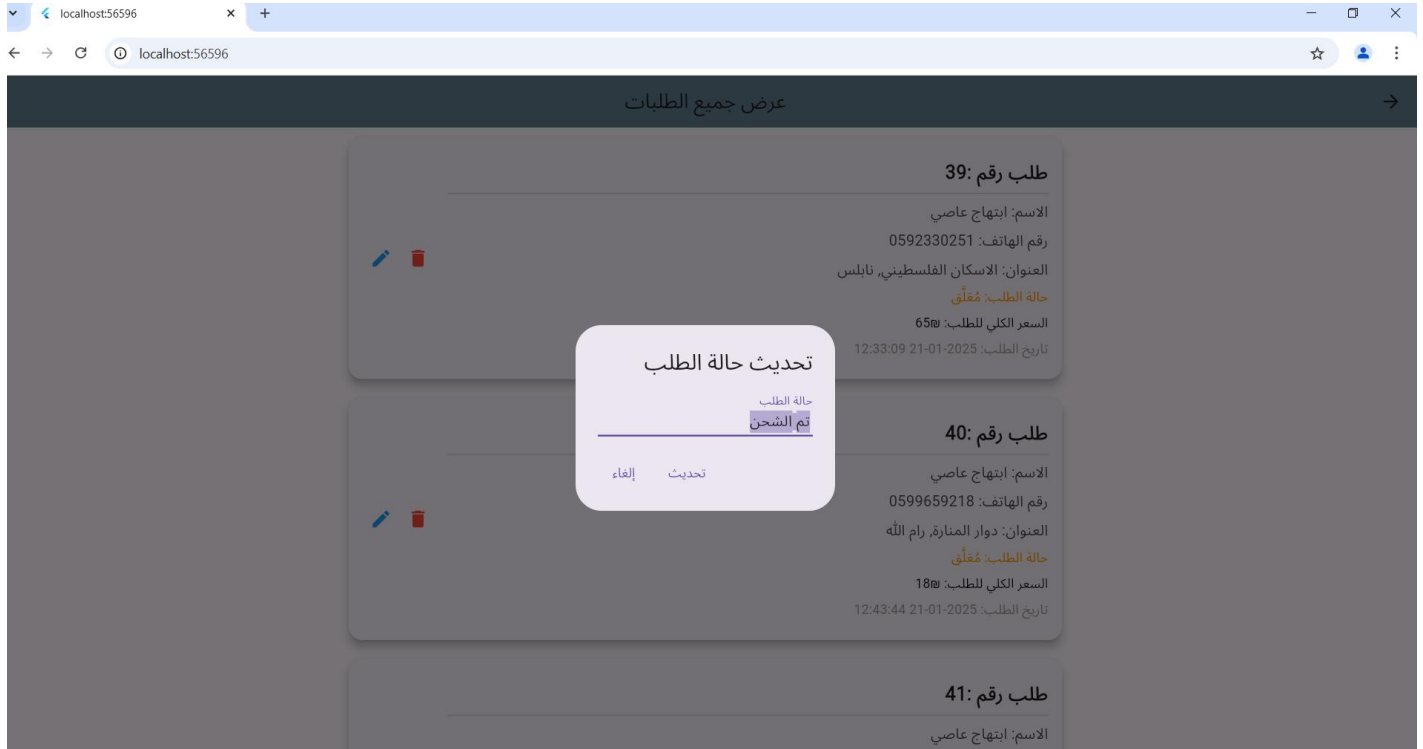


Figure 121: update orderstate



Figure 122: update orderstate

Delete order:

The admin can delete the order from the list after updating its status and completing it by clicking on the delete icon. The order will be deleted, and a success message will be displayed to the admin confirming the operation.

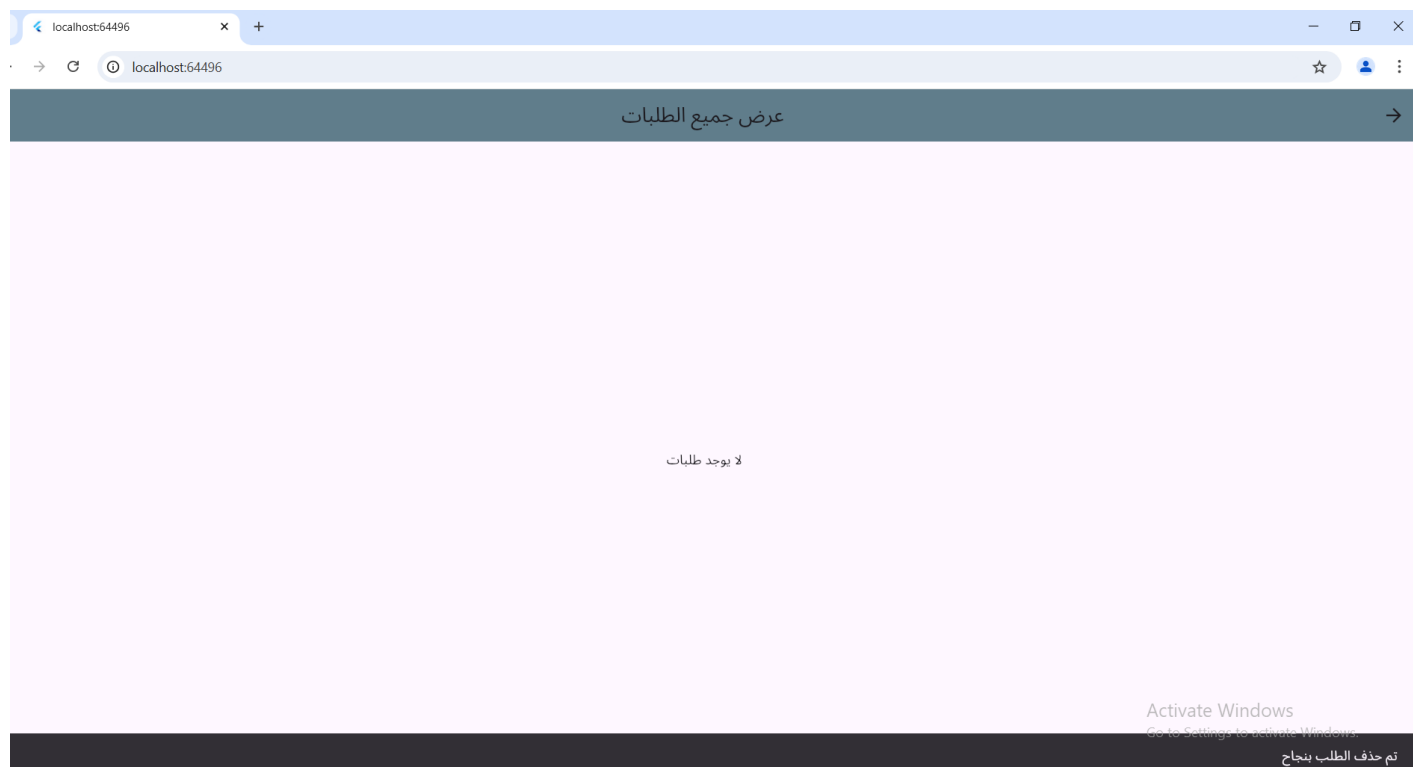


Figure 123: delete order

❖ View users

If the admin wants to view the users who have registered in the application, they click on " عرض المستخدمين " All users are displayed, with each user presented in a card containing their username, the email used to create the account, the account creation date, the user's profile picture, and their location, including city and street.

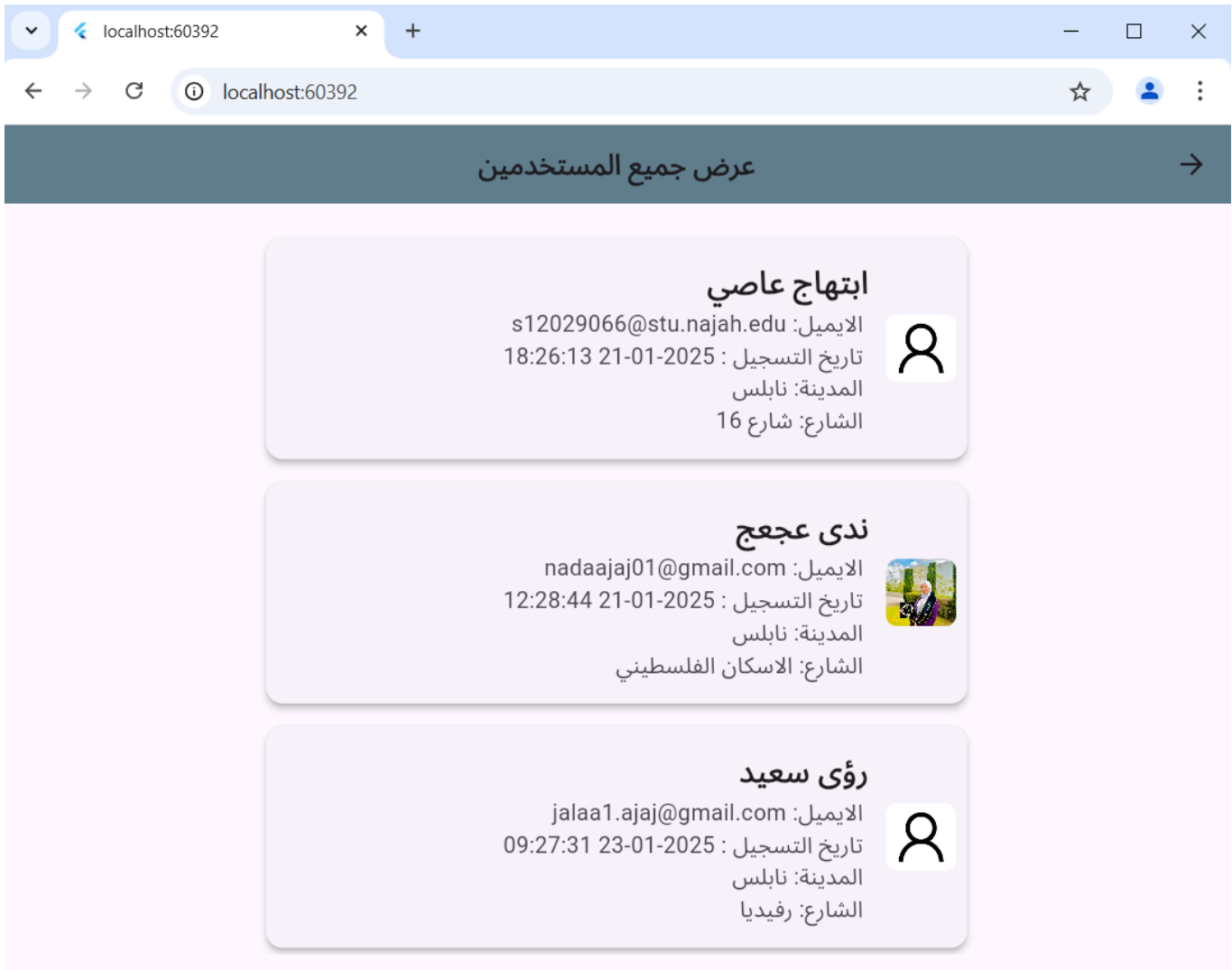


Figure 124:view users

❖ View used books

If the admin wants to view the used books that users have put up for sale, he clicks on “الكتب المستعملة” and a table appears showing information about the book, the number of times the book has been sold, and the email of the user who put the book up for sale.





الصورة	اسم الكتاب	المجموعة	البريد الإلكتروني	مرات البيع	السعر
	فن الالمبالاة	كتب تطوير الذات	jalaa1.ajaj@gmail.com	1	35
	السيطرة على المصير	كتب تطوير الذات	nadaajaj01@gmail.com	2	30
	الثقة بالنفس	كتب تطوير الذات	s12029066@stu.najah.edu	1	25

Figure 125:view used book

❖ View exchanged books

If the supervisor wants to view the books available for exchange or the books that have been reserved, he clicks on “إدارة الكتب للتبادل” and all the books offered for exchange appear, the name of the book and the name of the city in which the book is available appear



Figure 126:view exchange book

and when the supervisor clicks on the image of the book, a dialog window appears containing all the details about the book and its owner..

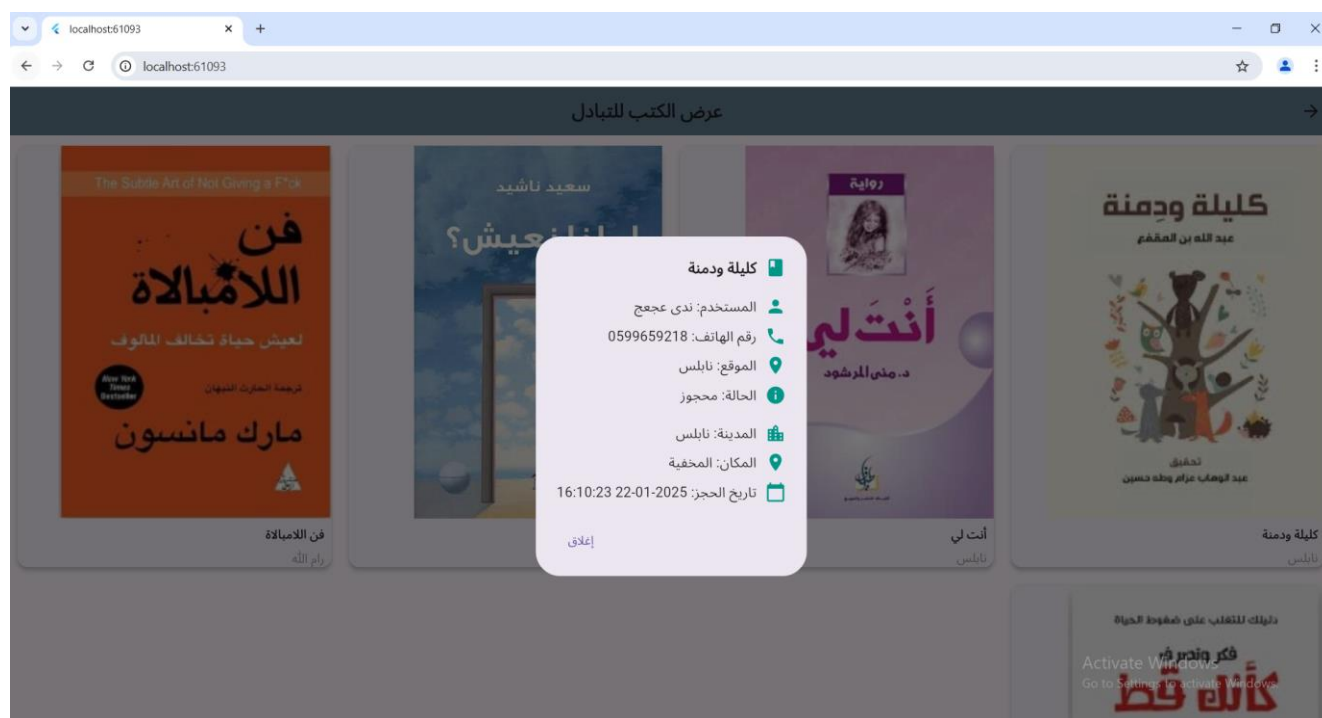


Figure 127:view exchange book details

❖ Monthly Book and Sales Statistics

If the admin wants to know the names of the best-selling books among users, he clicks on “إحصائيات الكتب والمبيعات الشهرية” and a graph of the best-selling books is displayed, showing the percentage of sales of each book within the graph.

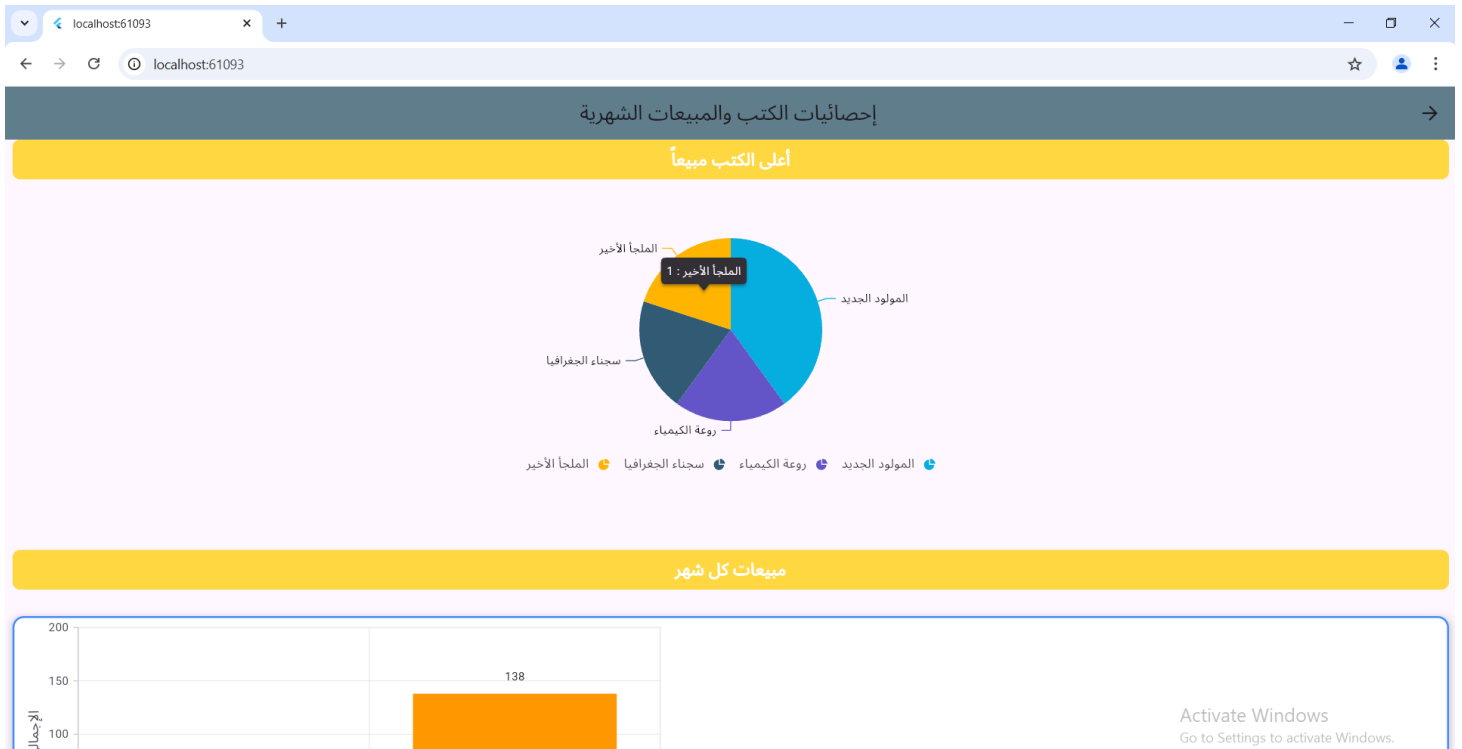


Figure 128 :best-selling books

On that page, a graph appears showing the monthly sales of the application, where the column that represents the sales of a specific month appears in several colors. If sales are low, they are red, if they are medium, they are orange, and if they are high, they are green.

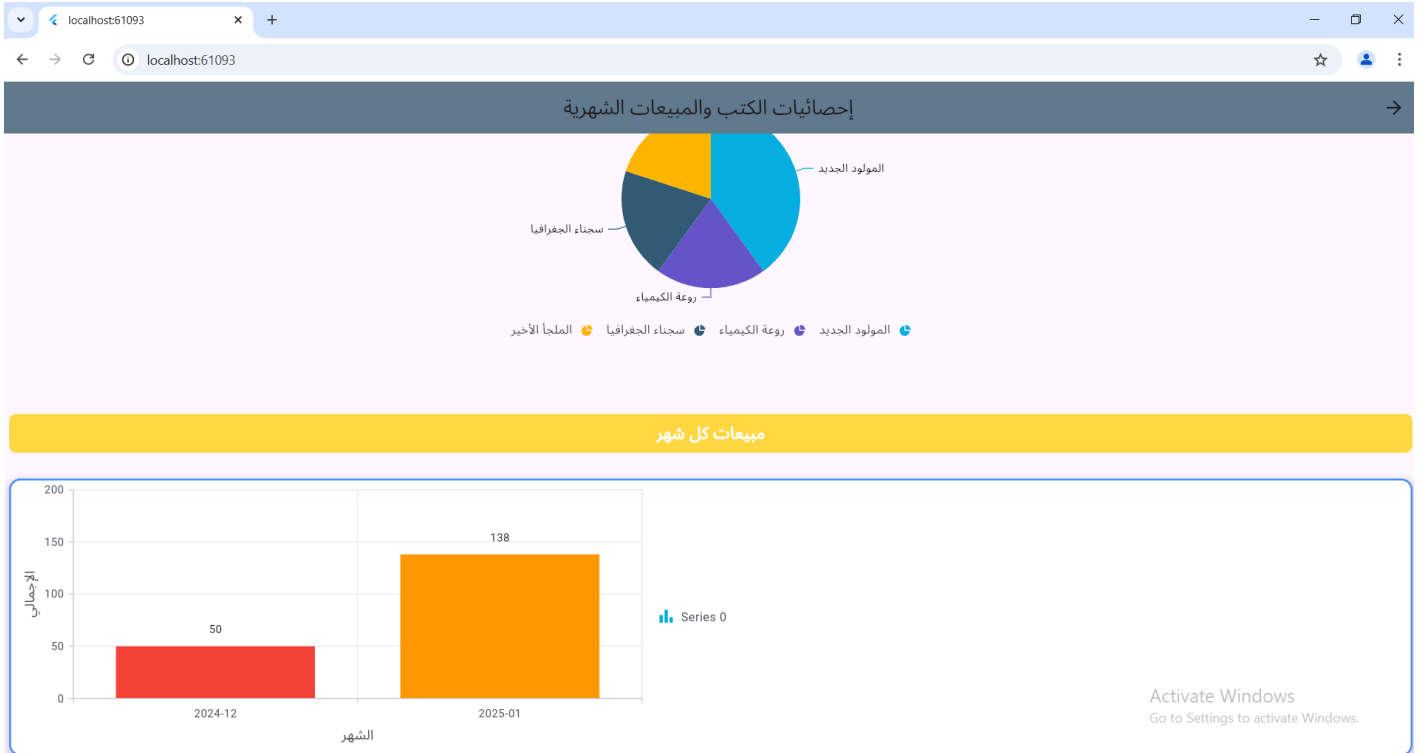
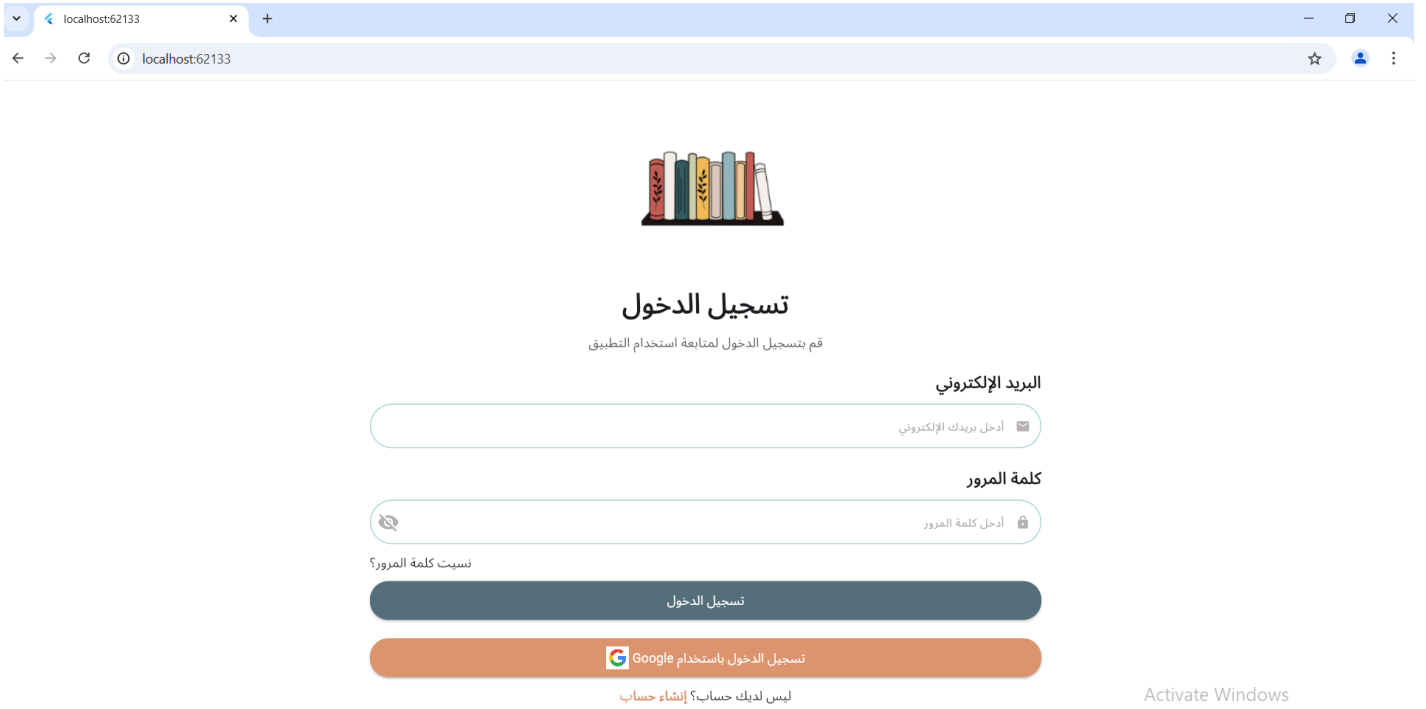


Figure 129 : monthly sales

❖ User interface images from the web



localhost:59815

localhost:59815/#signup

إنشاء حساب

قم بإنشاء حساب للتسوق واستخدام التطبيق

اسم المستخدم

البريد الإلكتروني

كلمة المرور

تأكيد كلمة المرور

رقم الهاتف

المدينة

عنوان الشارع

إنشاء حساب

البريد الحساب بالفعل؟ تسجيل الدخول

Activate Windows
Go to Settings to activate Windows.

Flutter Demo

localhost:60850

كتابي وكتابك

كتب فلسفة

كتب تطوير الذات







كتب أطفال

الكتب العلمية

كتب تاريخية

الكتب الإسلامية

أحدث الإصدارات

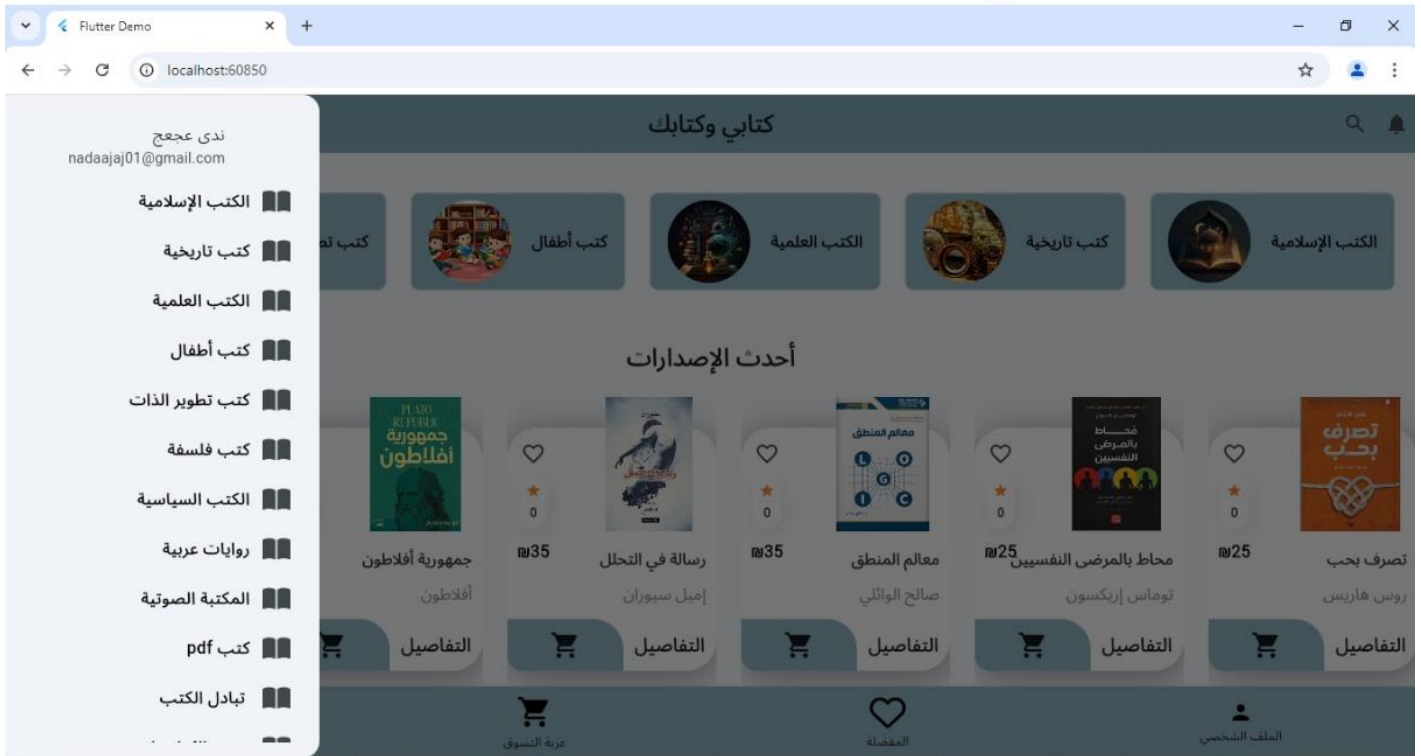
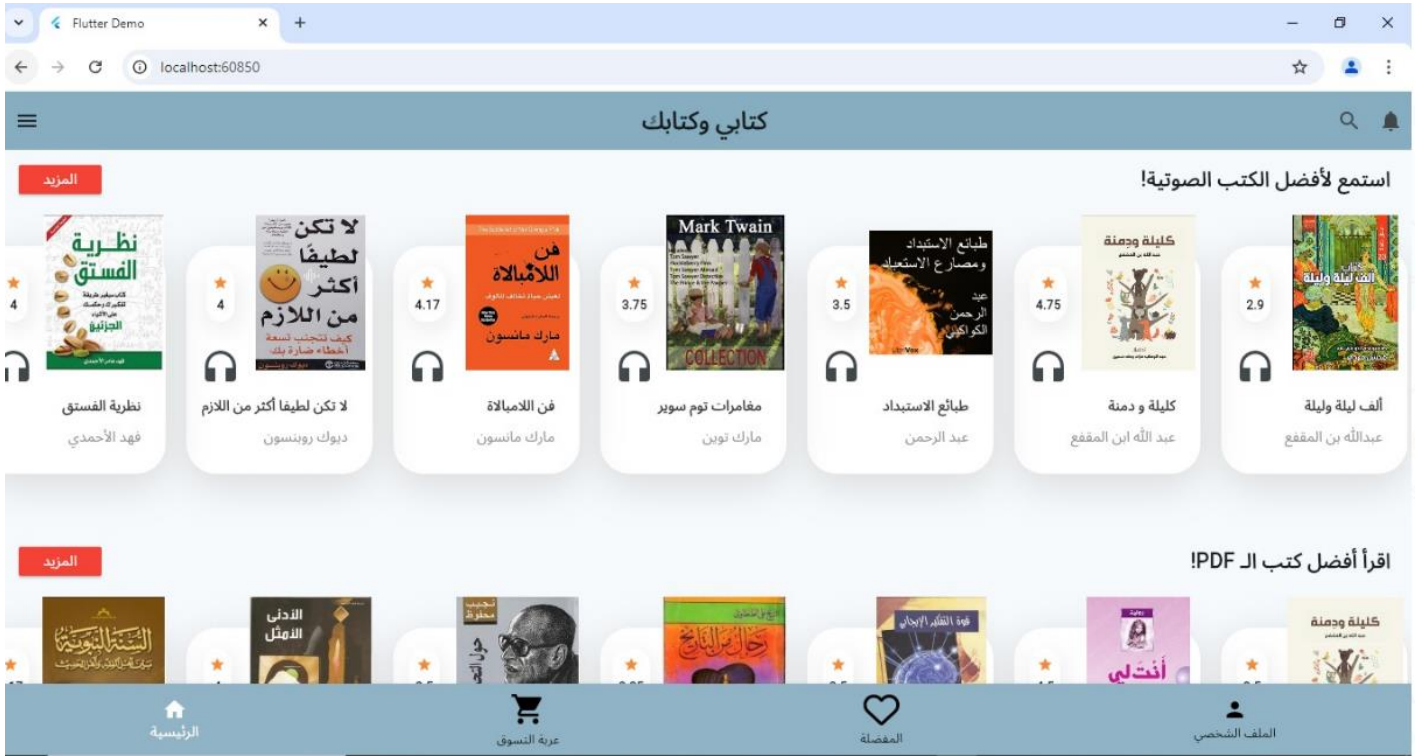
 <p>عائد إلى حيفا غسان كنفاني</p> <p>40</p> <p>التفاصيل</p>	 <p>جمهورية أفلاطون أفلاطون</p> <p>40</p> <p>التفاصيل</p>	 <p>رسالة في التحلل إميل سيوران</p> <p>35</p> <p>التفاصيل</p>	 <p>معالم المنطق صالح الوائلي</p> <p>35</p> <p>التفاصيل</p>	 <p>محاط بالمرضى النفسيين توماس إريكسون</p> <p>25</p> <p>التفاصيل</p>	 <p>تصرف بحب روس هاريس</p> <p>25</p> <p>التفاصيل</p>
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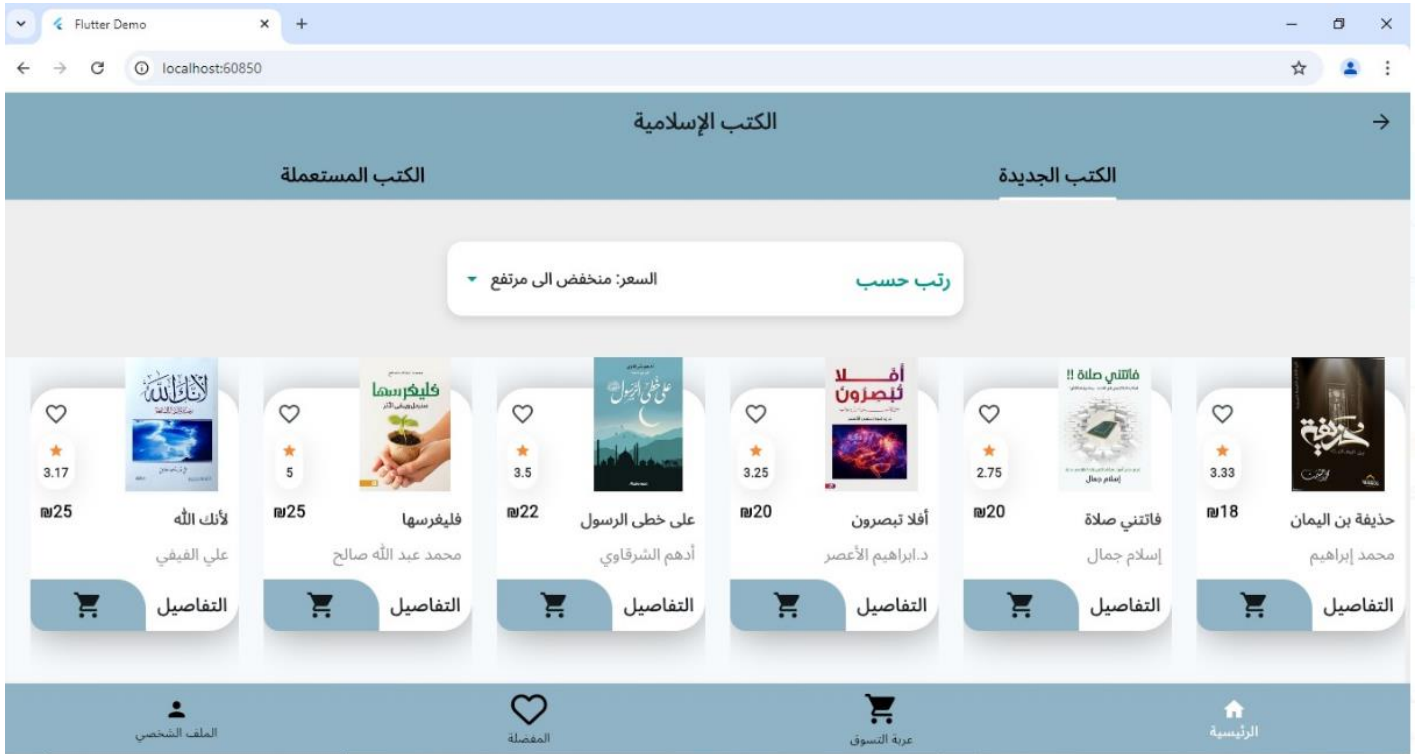
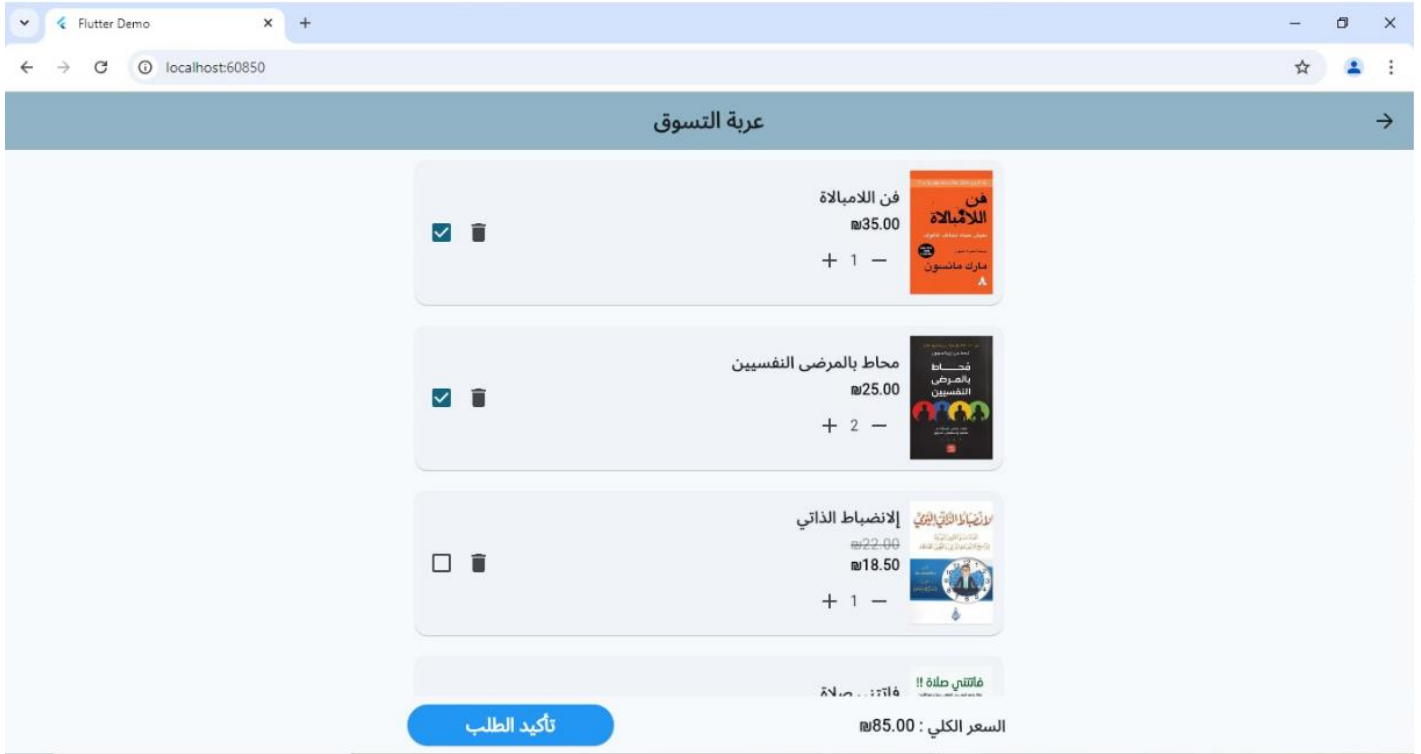
الرئيسية

عربة التسوق

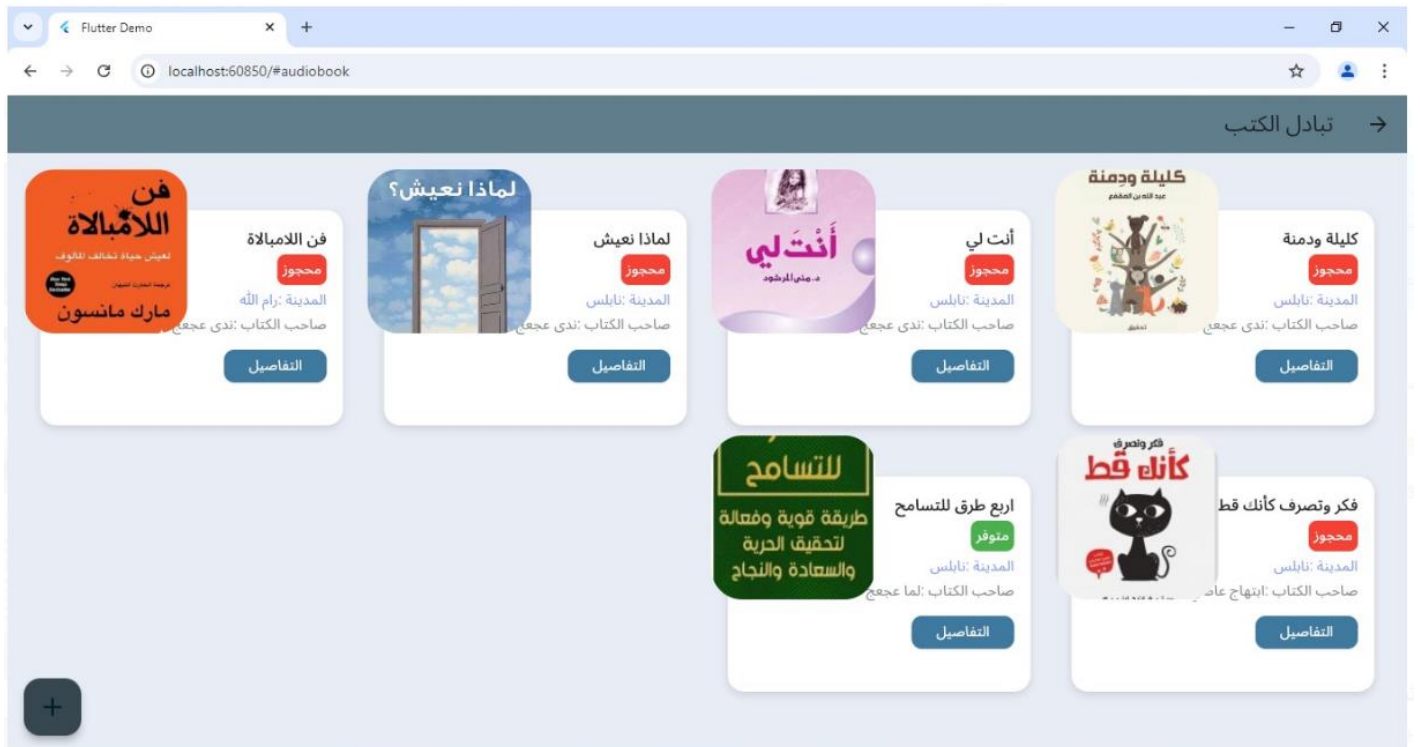
المفضلة

الملف الشخصي











Chapter 5: Result and Discussion

Result :

Kitabi w Kitabak "كتابي وكتابك" is a platform that includes a website and a mobile application that allows users to do the following:

- 1- Users can easily log in to the platform and provide a personal profile page for them so that they can easily modify their information.
- 2- Users can view books in different categories and thus can easily buy what they need.
- 3- Users can subscribe to the platform to get PDF books and audio books.

4- After finishing reading the book, the user can display this book for exchange so that other users can benefit from it. He can also enter the books category for exchange and reserve a book if he wants to read it.

5- The application supports the feature of selling used books, so that users can resell their books that they purchased from the store, provided that the price of the books is reduced by 10% of its price and a commission is calculated for the platform.

This platform provides the ability for the admin to add, delete, and modify all books and categories. It also allows viewing all users who have registered on the platform, as well as browsing books available for exchange or sale. Additionally, it offers the feature of reviewing users' special requests and the ability to update the status of these requests. The platform enables the admin to send notifications to users and send them motivational messages. Moreover, the admin can track the best-selling books on the platform and monitor monthly sales.

Discussion:

Kitabi w Kitabak "كتابي وكتابك" it is a platform that is easy to use for users. It is also a comprehensive platform to meet the needs of reading enthusiasts. It is also characterized by the availability of books for exchange for users who find it difficult to buy books and love reading.

Chapter 6: Conclusion

Conclusion:

The Kitabi w Kitabak "كتابي وكتابك" platform provides a unique experience for users in the world of books. It allows them to access a wide range of books in various categories, in addition to subscribing to receive PDF books and audio books.

The platform also provides a feature for exchanging books and selling used books, making it easy for users to re-exchange books they have finished reading. The easy-to-interact interface, and provides interfaces for the admin to easily manage the platform in general, this platform contributes to enhancing the love of reading and encouraging the exchange of books between individuals

Chapter 7: Future Work

There are many improvements that can be added to the Kitabi w Kitabak "كتابي وكتابك" platform, such as:

1-Adding new electronic payment methods: to provide diverse options for users, making it easier for them to complete purchases quickly and smoothly.

2-Adding a section for book recommendations: where the platform can suggest books to users that may interest them based on their previous choices and interests, helping them discover new content.

3- Create a special section for delivery: to facilitate the process of delivering books to users, so that they can track the status of their orders and know when the books will arrive to them, ensuring a convenient and fast purchasing experience.