



An-Najah National University
Faculty of Engineering & Information Technology
Computer Engineering Department



A report submitted in partial fulfillment of the requirements for bachelor's degree
in computer engineering - Software Project

Presented by:

- 1- Lara Amer
- 2- Muna Khwaireh

Project supervisor:

Dr.Ala'a al-deen masri

Table of Contents

Acknowledgment:.....	5
Abstract:.....	6
Introduction.....	7
Constraints.....	8
Literature review.....	9
Methodology.....	10
4.1 programming languages and tools.....	10
4.2: About the Application in General.....	11
4.3: Organizer side:.....	13
4.4: Admin side:.....	18
4.5: the user side -Participants.....	21
4.6: Store side:.....	26
Conclusion and Future Work.....	31
5.1 conclusion:.....	31
5.2 Future works:.....	31
References :.....	32

Table of figures

Acknowledgment:	4
Abstract:	5
Chapter 1.....	6
Introduction	6
Chapter 2.....	7
Constraints	7
Chapter 3.....	8
Literature review	8
Chapter 4.....	9
Methodology	9
4.1 programming languages and tools	9
Database:.....	9
Development Tools:.....	10
Programming Languages:.....	10
4.2: About the Application in General	10
4.3: Organizer side:	13
4.4: Admin side:	18
4.5: the user side -Participants	21
For Participants:.....	21
4.6: Store side:	26
Chapter 5.....	31
Conclusion and Future Work	31
5.1 conclusion:	31
5.2 Future works:	31
Chapter 6.....	32
References :	32

Acknowledgment:

We extend our deepest gratitude to **An-Najah National University** for providing us with the opportunity and resources to undertake and complete this project.

Our sincere appreciation goes to **Dr. Ala'a Masri**, whose invaluable guidance, support, and insightful advice played a crucial role in the successful completion of this work.

We would also like to express our heartfelt thanks to **Dr. Manar Qamhieh**, Head of the Department, for her continuous encouragement and leadership throughout our academic journey.

Abstract:

Event organizers often face challenges when planning events, while event seekers may struggle to find events that match their interests. To address these issues, we developed a mobile application and website designed to simplify the event planning and discovery process for both organizers and attendees.

Our website provides a common platform for different events and services related to them; one can browse for events according to event type and filter them using various filters. Meanwhile, event organizers will easily find all materials in one place, including places, seating, catering, etc., with which they are able to complete a reservation directly from preferred stores.

The application also includes smart calendar features that notify users of upcoming events, a rating system for both events and organizers, and options for user feedback through comments and chat. We support both public and private events: public events are visible to all users, while private events remain hidden unless the organizer sends an invitation.

Chapter 1

Introduction

- **Eventaura** A Mobile Application & website for event organizers and event seekers.

Event planning can be a challenging task for organizers, while attendees often face difficulties finding events that match their interests. To tackle these challenges, we developed a mobile application and website designed to streamline both event planning and discovery. The platform aims to bring together event organizers and participants in a seamless and efficient manner.

The website serves as a unified hub for various events and related services. Users can easily browse events based on event types and filter them according to different preferences. For organizers, the platform provides a comprehensive solution, allowing them to access everything they need for an event, from venues and seating arrangements to catering, all in one place, and enabling direct reservations from preferred stores.

Additionally, the application includes a smart calendar to notify users about upcoming events, a rating system for both events and organizers, and options for feedback through comments and chat. It supports both public and private events, with public events visible to all users, while private events are only accessible through invitations sent by the organizer.

Chapter 2

Constraints

During the development of our project, we faced several challenges that impacted our timeline and required additional effort. One of the primary constraints was learning **Flutter**, a new programming language for us, which introduced a learning curve and slowed down the development process as we built both the mobile application and website. Additionally, we encountered **emulator issues**, with frequent version conflicts causing technical difficulties that disrupted testing and delayed our progress.

Literature review

- **Using Technology in Event Planning**

Historically, event administration has been a difficult, manual procedure. However, modern technological developments have completely changed how events are planned and run. Smith et al. (2020) claim that by simplifying administrative duties including scheduling, vendor coordination, and registration, digital platforms have revolutionized event organizing. Additionally, by enabling the development of personalized experiences for participants, these platforms have improved happiness and engagement. The entire planning process has been made simpler by apps and websites that give event planners access to a single location where they can handle all event-related tasks, such as scheduling venues and setting up caterers (Baker, 2019).

- **Obstacles Event Planners Face**

Event planners still confront a number of difficulties in spite of technology developments. Managing several facets of event planning, including arranging logistics, communicating with vendors, and making sure that every component is completed on time, is one of the primary challenges. Taylor (2021) asserts that, especially for large-scale events, organizers frequently struggle with time management and resource allocation. Budgetary restrictions also continue to be a major obstacle since event planners must strike a balance between expenses and offering participants high-quality services. According to Johnson and Miller (2020), many organizers struggle to satisfy attendees' high expectations while adhering to financial constraints.

- **Participants' Discovery of the Event**

Finding events that align with personal interests can be inefficient and time-consuming from the participant's point of view. While there are numerous platforms that offer events, Anderson et al. (2018) contend that they are frequently disorganized and lack useful filters to assist consumers in focusing their search. Attendees become frustrated as a result of their inability to quickly locate pertinent events. By assisting users in finding events that suit their interests, Rodriguez (2019) contends that developing a platform with extensive filters—such as event type, location, pricing, and user ratings—can greatly enhance the user experience.

- **Intelligent Features and User Involvement**

Smart elements like rating systems and notifications have improved the event experience for both participants and organizers. According to Chen and Lee (2021), smart calendars are useful because they alert users to impending events, which helps them stay informed and make decisions on time. Furthermore, as explained by Kumar and Patel (2020), a strong rating system enables users to offer comments on both events and organizers, fostering legitimacy and confidence in the event sector. This feedback loop gives organizers important information for next events and is essential for ongoing improvement.

Chapter 4

Methodology

4.1 programming languages and tools

Database:

In order to assure effective and organized data administration, we chose **MySQL** as our database, hosted on **Clever Cloud**, because of the intricate relationships inside our application.

In order to facilitate real-time data synchronization and offer a flawless user experience, we also used **Firebase** to store chats.

Development Tools:

- **Visual Studio Code:** A lightweight yet powerful code editor used for writing and debugging code efficiently.
- **XAMPP:** A local development environment that provides an easy way to set up an Apache server with MySQL, PHP, and Perl.
- **Clever Cloud:** A cloud hosting platform used for deploying and managing our MySQL database.
- **GitHub:** A version control platform that helps in managing and tracking changes to our project's source code.

- **Postman:** A tool for testing APIs, allowing us to send requests and analyze responses efficiently.
- **Android Studio:** The official IDE for Flutter development, providing tools for building, testing, and debugging mobile applications.

Programming Languages:

- **Backend (PHP):** Used to handle server-side logic, process requests, and manage database interactions.
- **Frontend (Flutter):** A UI toolkit for building cross-platform applications with a smooth and interactive user experience.

4.2: About the Application in General

Eventaura is an application and website designed for organizing and participating in events, targeting both event organizers and participants.

- The first screen of the application is just a welcome page.

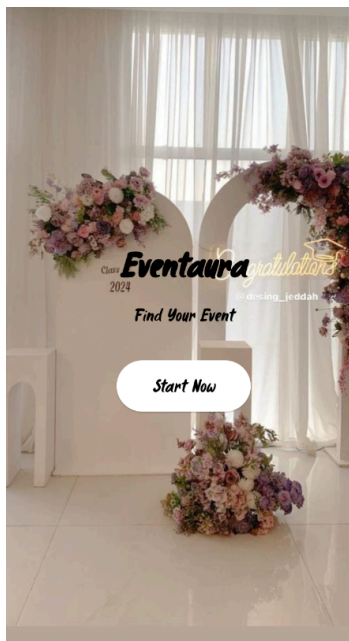


Figure 1 welcome page



Figure 4 general page website

- Then he has to log in or sign up if he doesn't have an account as fig.2 fig.3

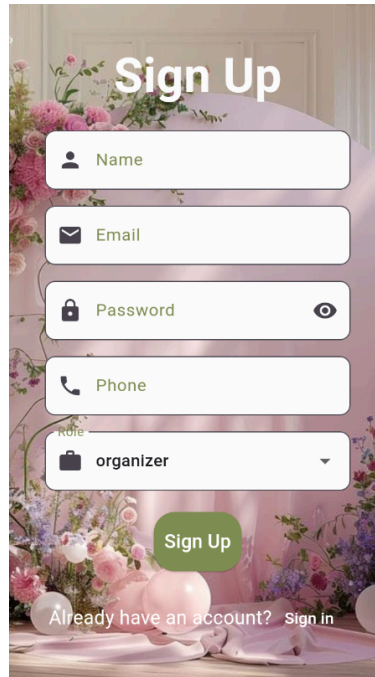
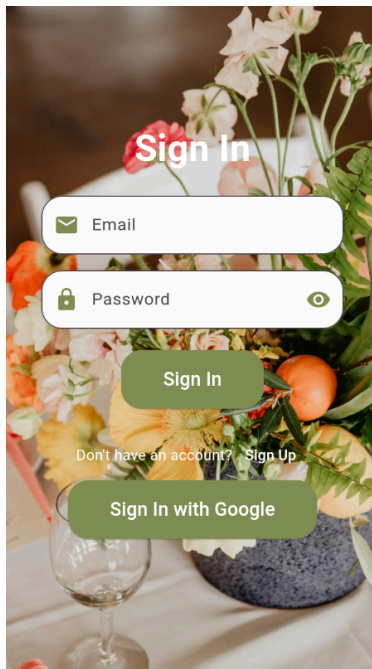


Figure 2 login page

Figure 3 sign up page

4.3: Organizer side:

For Organizers: By including information like the venue, time, and activities, Eventaura makes it simple for organizers to plan and oversee events. The software also gives organizers access to a wide range of providers and shops where they may buy necessary items for the event, such as food, musical equipment, venue leases, and more.

- After the organizer log in, this screen appears

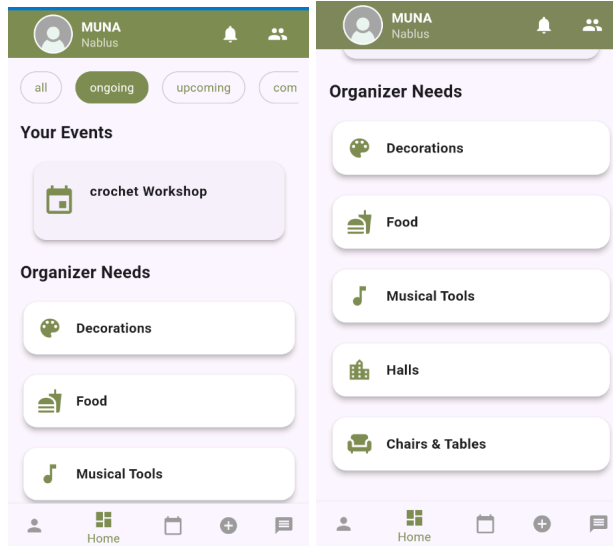


Figure 5 organizer home page

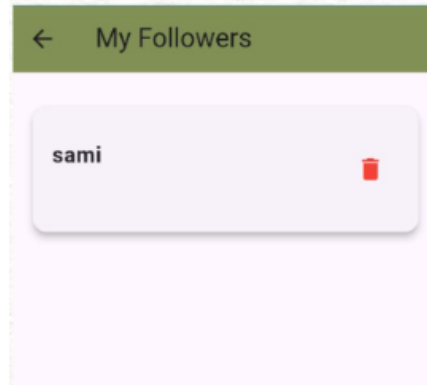
Figure 8 organizer needs page

The first thing he can do is add events or edit their information , so he enters all information needed for an event to be created

Figure 6 add events

also can Show and Delete my followers from my followers icon :





After the organizer chose the category (for example halls category he sees all halls that are registered in the application).

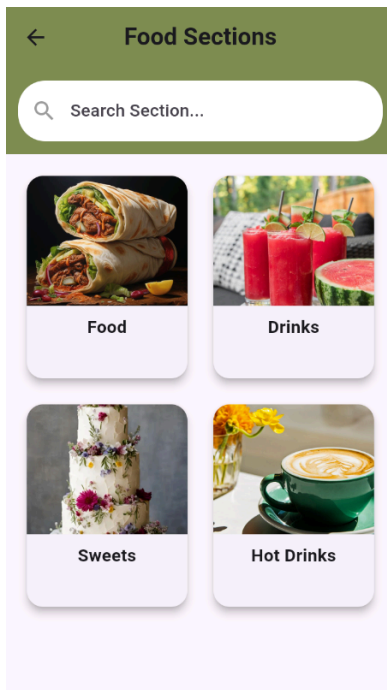


Figure 9 food section

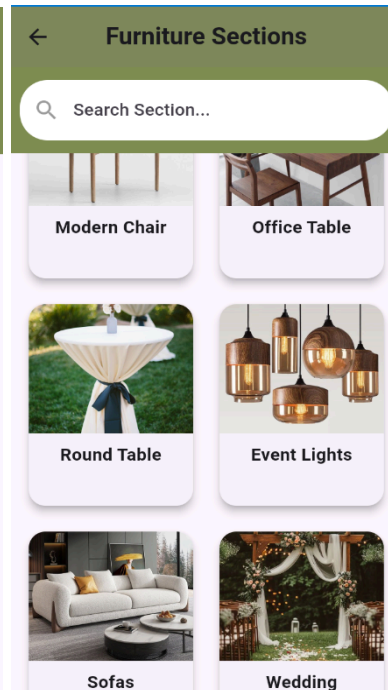


Figure 10 furniture section

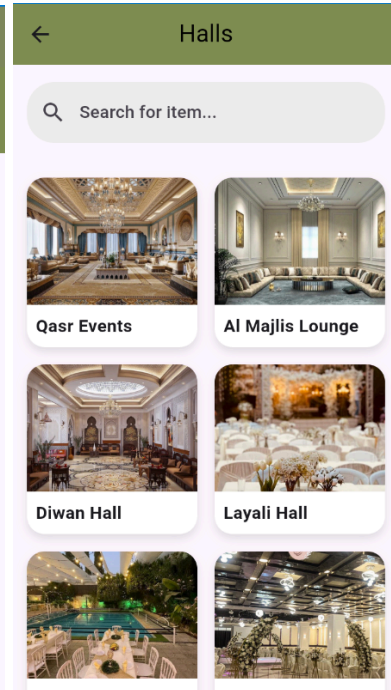


Figure 11 Halls section

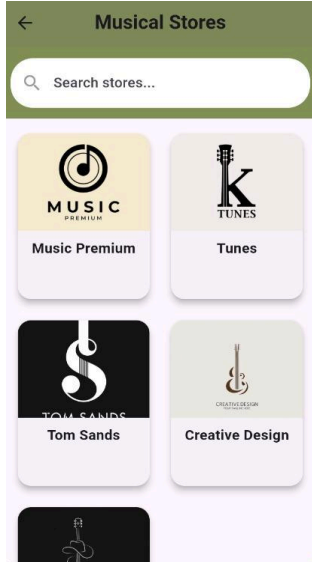


Figure 12 music section

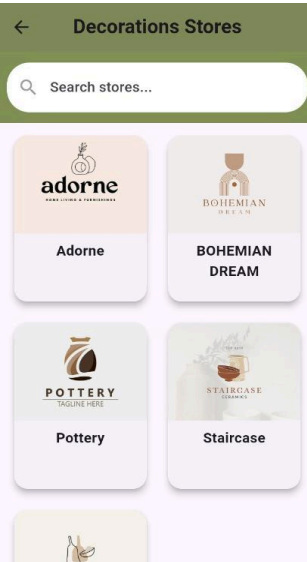


Figure 13 decorations section

When he choose the appropriate item for him he clicks on request a reservation so the store that has that item accepts the reservation or refuse.

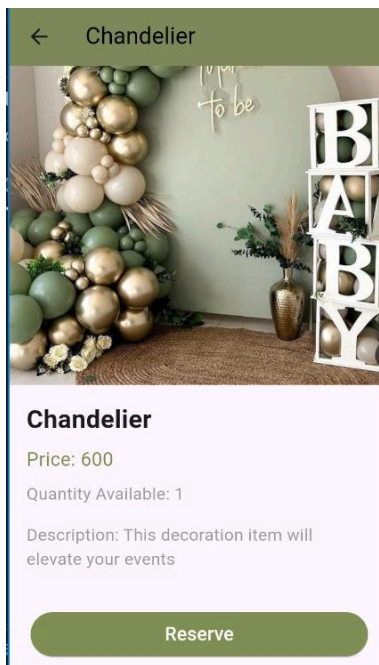


Figure 12 reserve item page

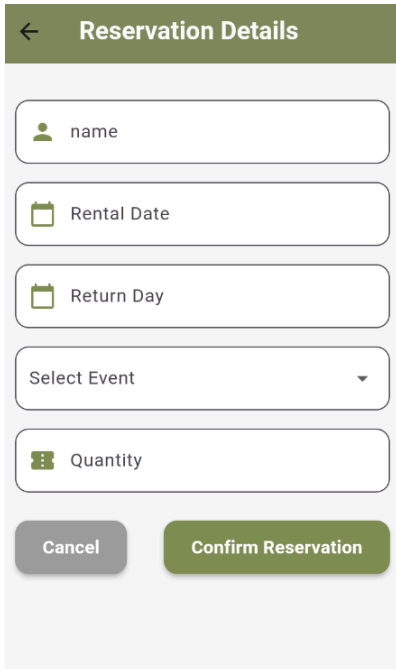


Figure 13 reservation form page

The organizer can also view their event from the bottom center under "My Event" (as shown in Figure 14) and can see the details by clicking on it.

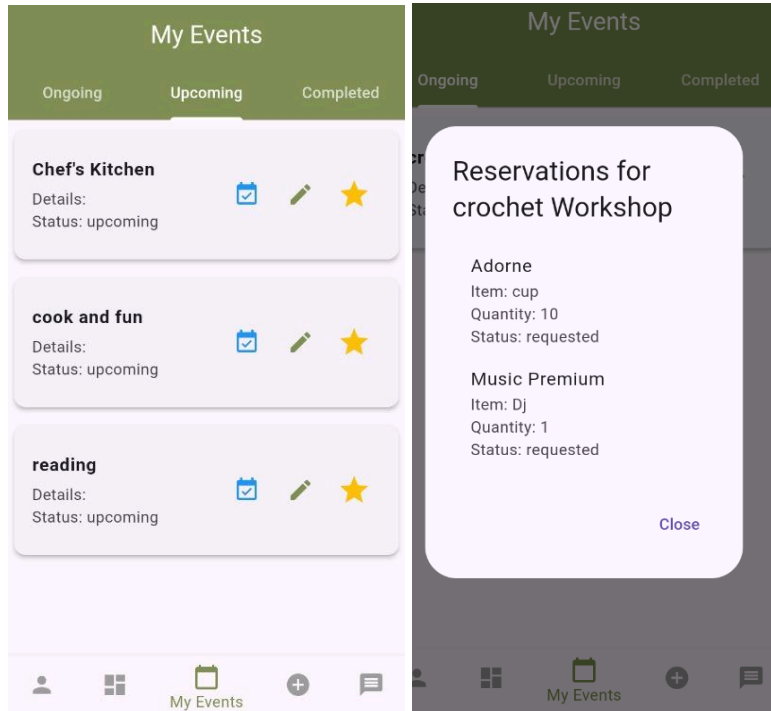


Figure 14 see event's reservation

He can see modification reservations for a specific event or see comments and ratings about it.

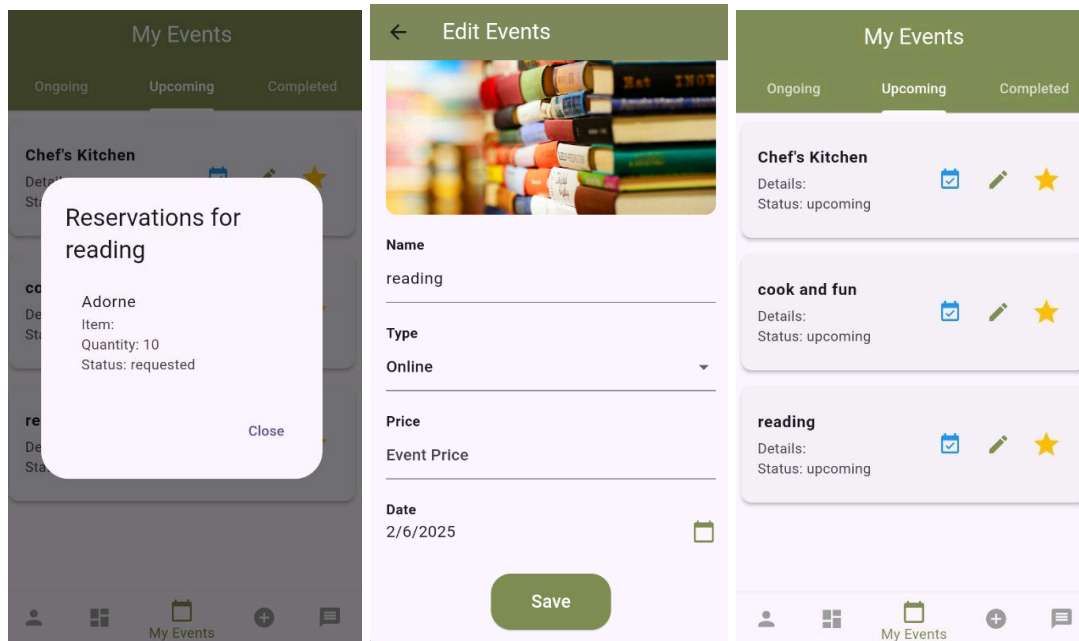


Figure 7 modification page

The organizer also can send message to any user.

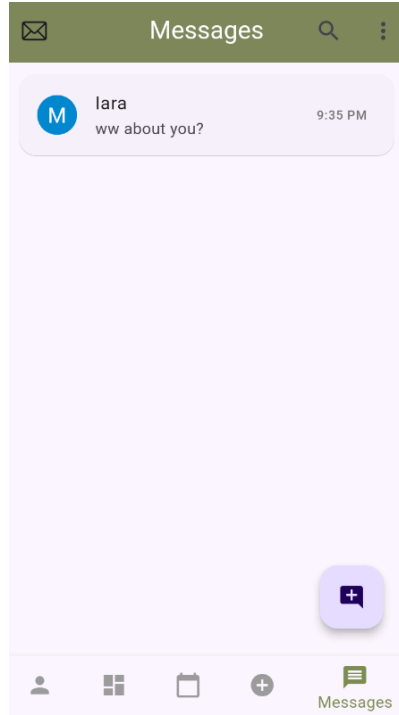


Figure 15 messages page

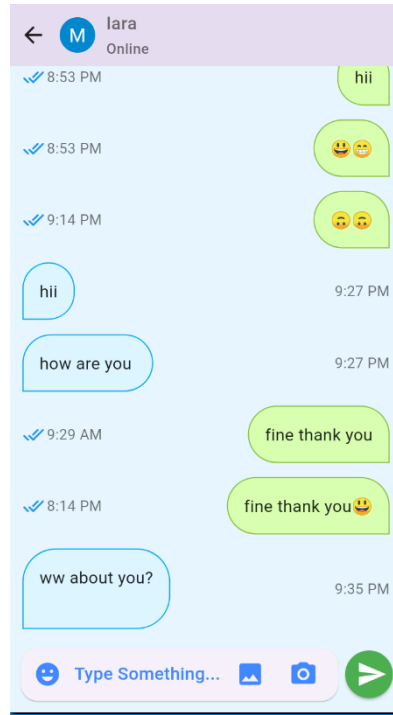


Figure 16 chat page

4.4: Admin side:

The admin can see the number of total users,events,stores participating in the event.

The admin can do multi-tasks. He can add users and organizers. Update their information and delete their accounts and he can also see all their information, also see reports. (I will attach screenshots below) Add users/update their information:

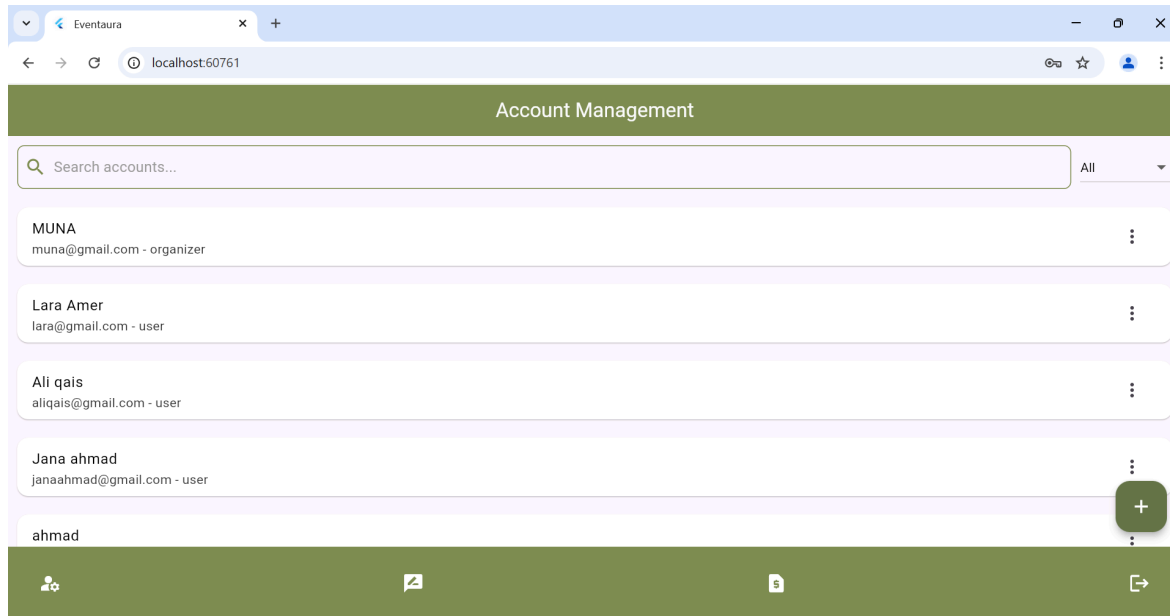


Figure 17 all users page

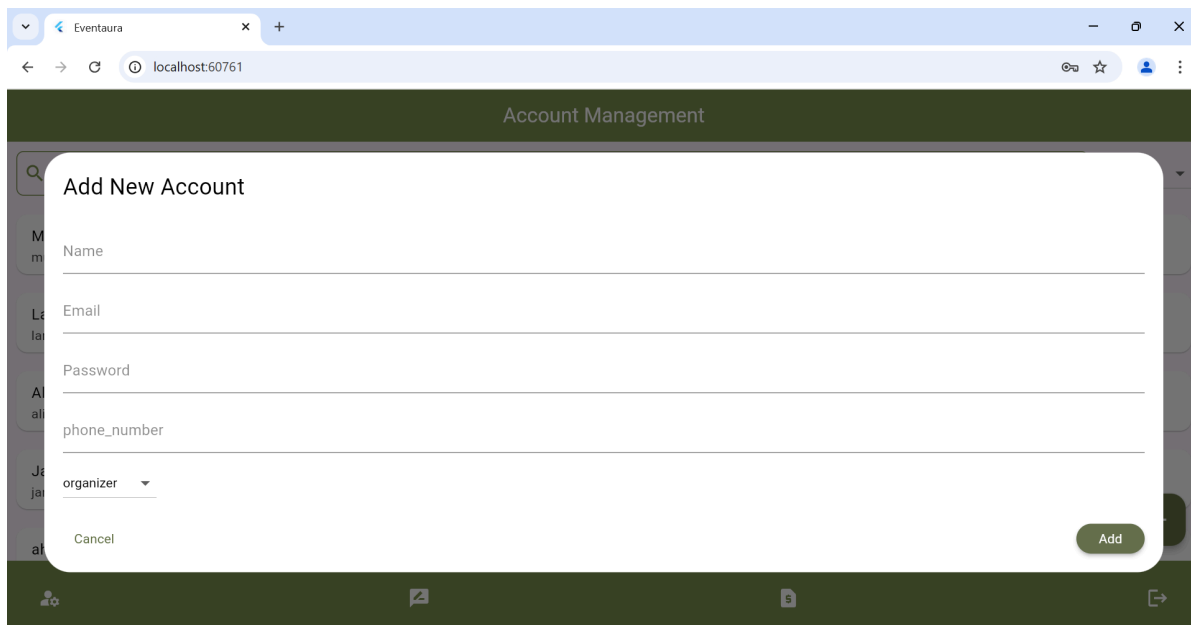


Figure 18 add new user page

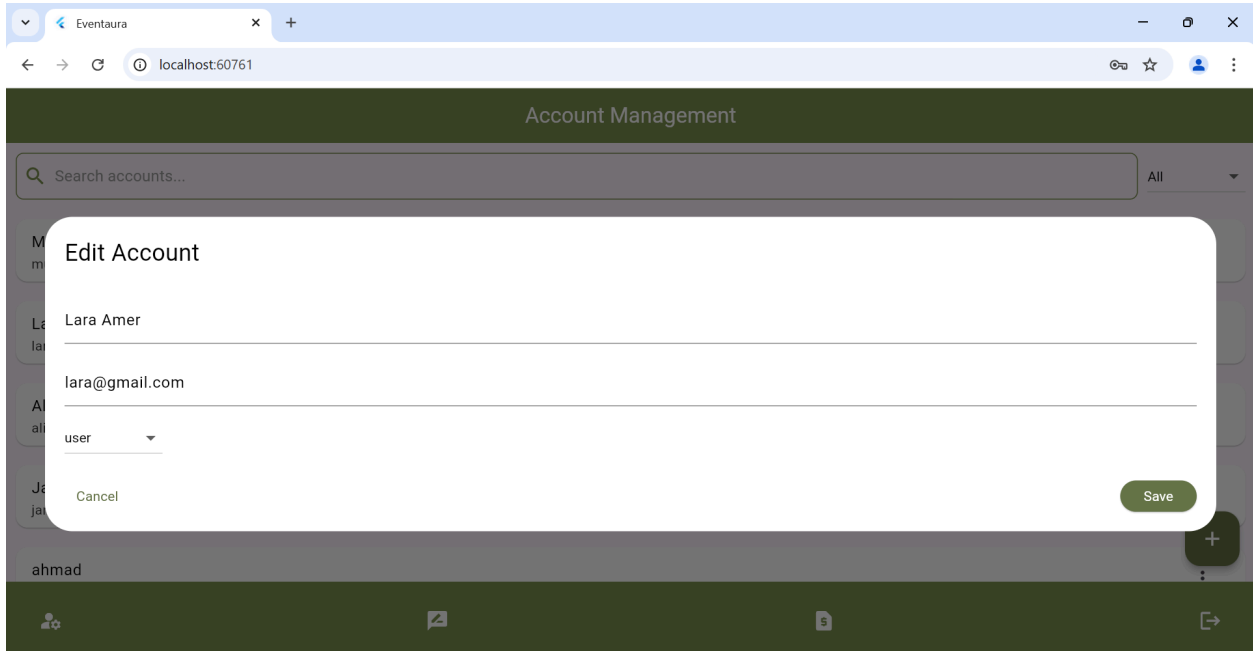


Figure 19 update user info page

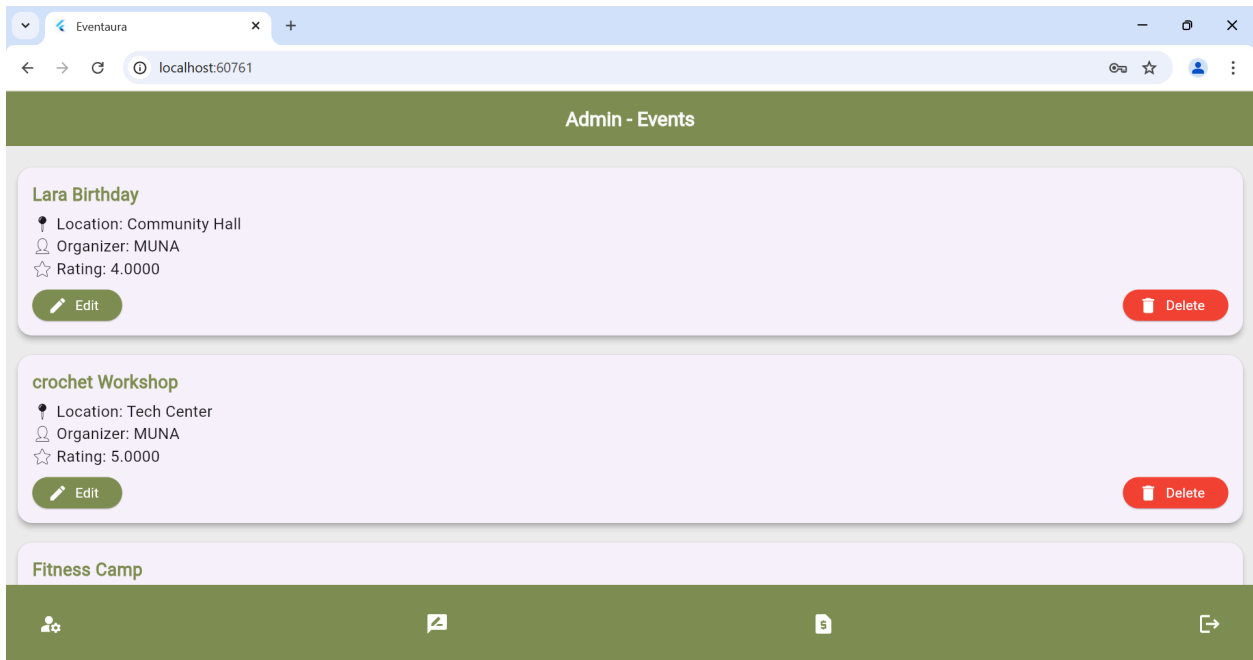


Figure 20 all events page

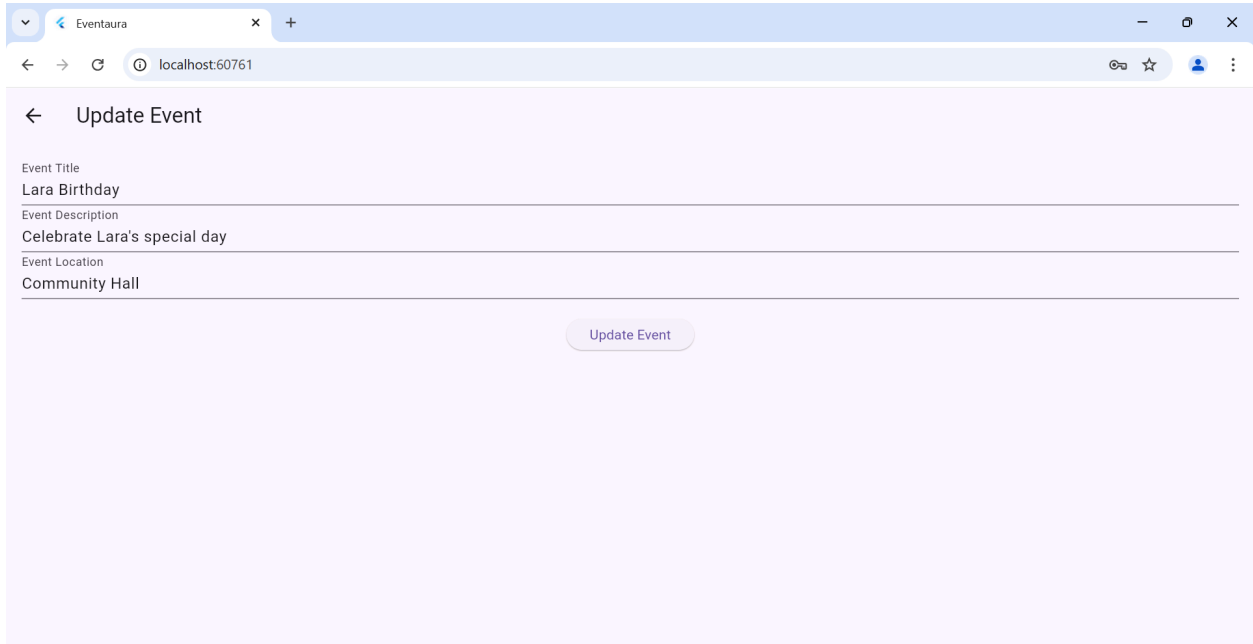


Figure 21 update event page

At this page appear all the stores requests to be added to our application, the admin could approve or reject it.



Figure 22 stores requests page

4.5: the user side -Participants

For Participants:

In order to identify activities that fit their interests, participants can search events that are grouped into several genres (sports, cuisine, technology, etc.) and filter them based on parameters like distance. They can readily join an event once they locate it.

By putting all the tools an organizer needs in one location and making it simpler for attendees to find and join events, Eventaura increases event visibility while streamlining the event planning process.

- When the user logs into their new account for the first time, this page appears, allowing them to choose their preferred topics so that related events are shown to them.



Figure 23 user interests page

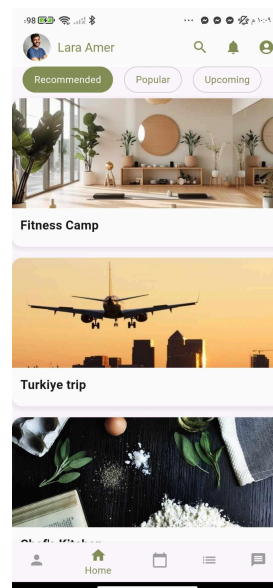


Figure 24 user home page

The homepage It includes filters where the **Recommended** section displays all the previously chosen favorite topics, the **Popular** section shows currently trending events, and the **Upcoming** section lists events happening soon.

Through this interface, the user can search for events near them by specifying their location and distance.

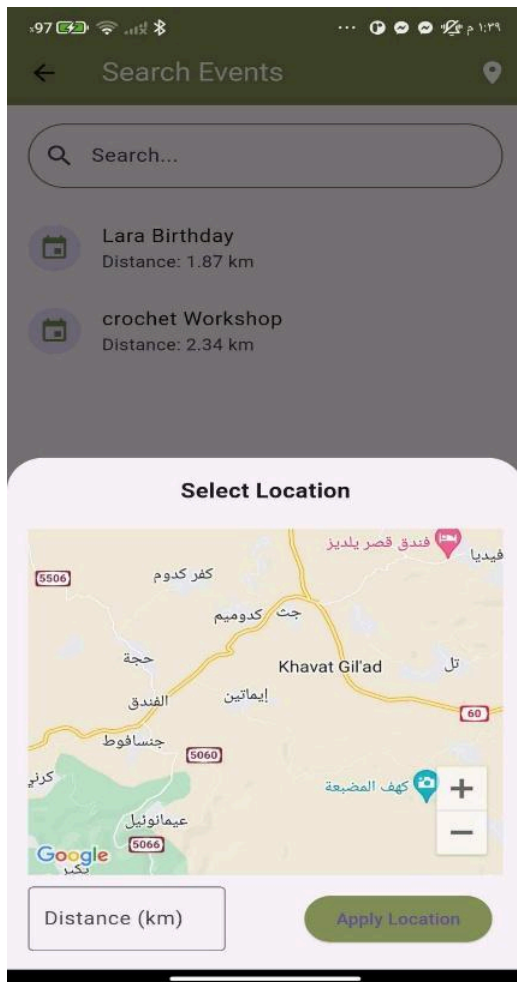
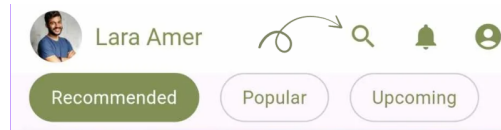


Figure 25 search user page

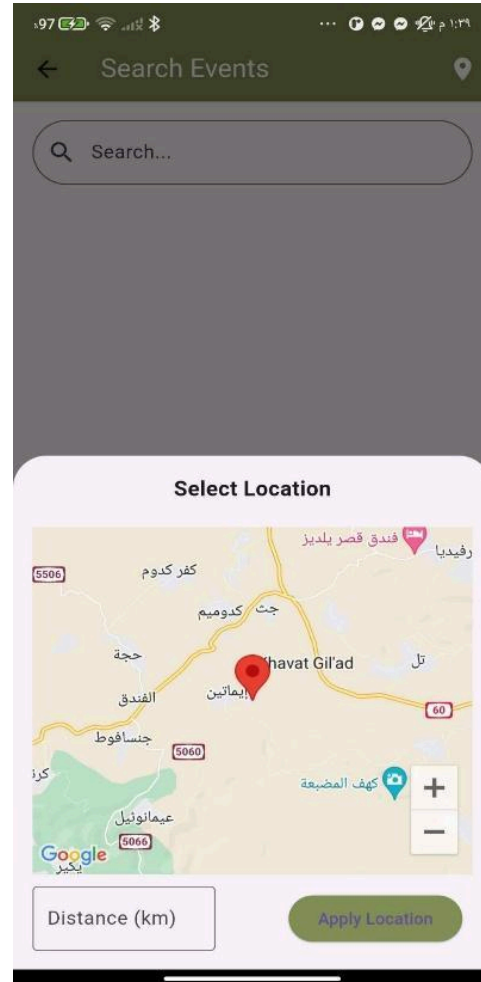


Figure 26 map and get location

- This page makes it easier for the user to access the organizers they have previously registered with.
- By clicking on their name, the user can access their profile and view the events they are currently organizing. The user can follow them by clicking the "Follow" button at the top right of the page.

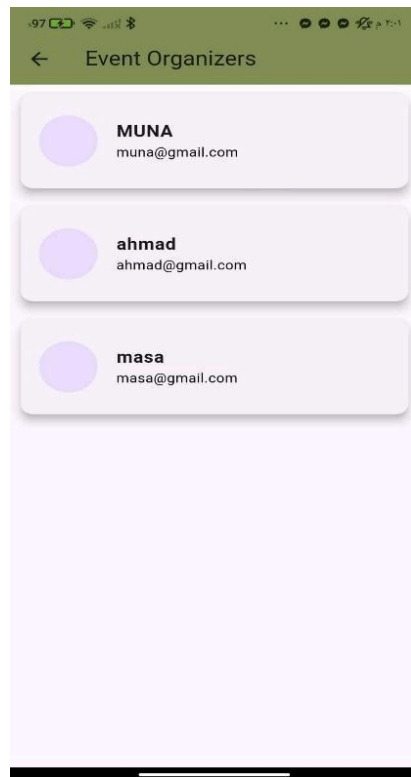


Figure 27 frequent organizers page

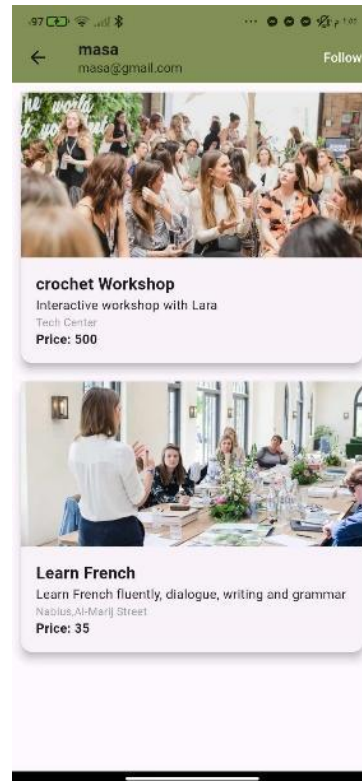


Figure 28 follow organizer page

This page allows the user to rate the events they have participated in, along with a calendar that displays the dates.

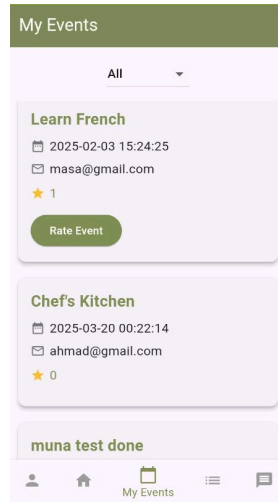


Figure 29 event calendar page

This page allows the user to organize their tasks. The "All" list contains all the notes written by the user. The "Pending" list shows the tasks the user is currently working on and hasn't completed yet. The "Completed" list includes tasks that have been finished, which are removed from the "Pending" list and appear in the "All" list with a strike-through to indicate they are completed.



Figure 30 to do list page

This page allows the user to manage their profile, where they can change the language or currency or add a payment card and This page makes it easier for the user to access events by using several filters.

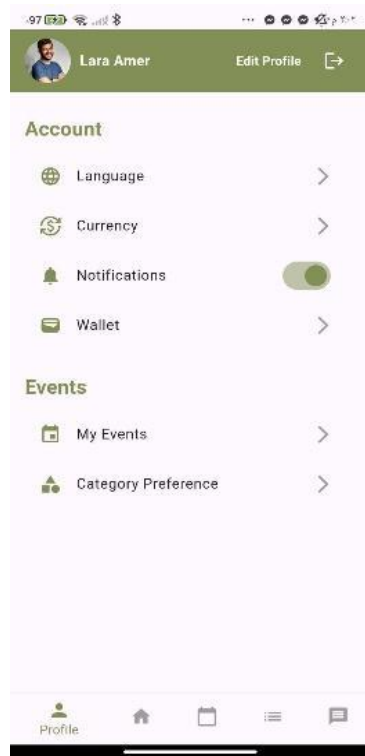


Figure 31 user profile page



Figure 32 categories page

4.6: Store side:

My project contains multiple sections in the store side :

- **Furniture:**

The homepage belongs to the furniture store owner and includes furniture categories such as chairs, office tables, lights, sofas, etc.

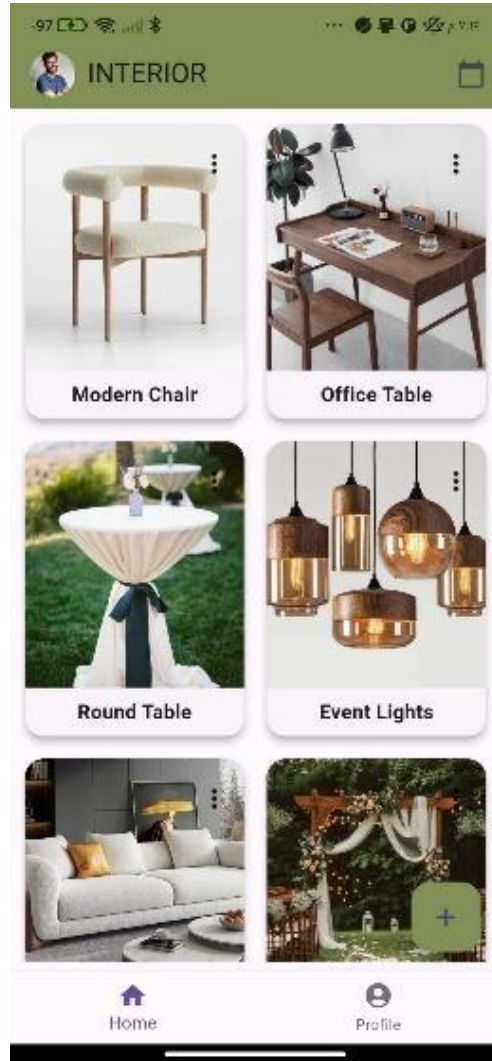


Figure 33 furniture store owner home page

The store owner can add a new section by clicking the plus button at the bottom right of the page. When clicking the plus button, a new section addition page appears.

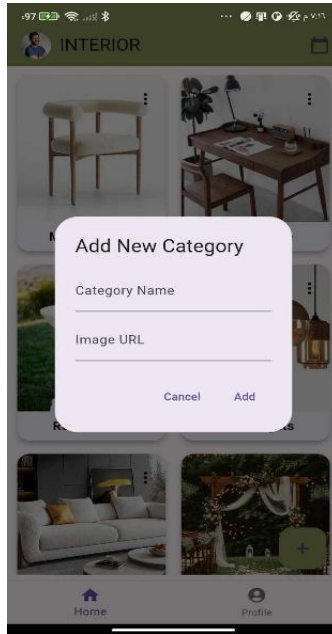


Figure 34 add new section page

Inside the section, when clicking the plus button, a new furniture addition page appears and the owner then fills in the required information.

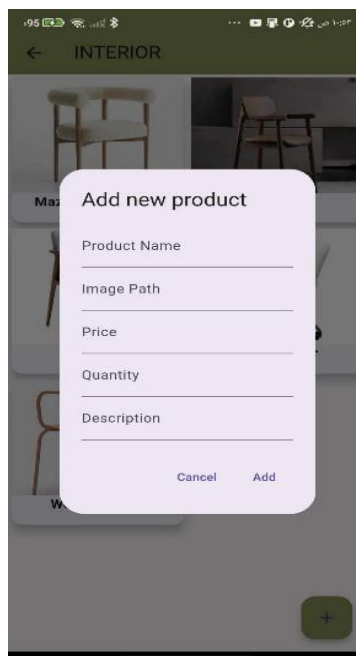


Figure 35 add new item page

The owner can also delete the furniture by clicking on the three dots.

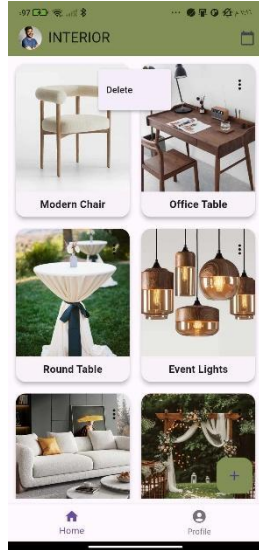


Figure 36 delete item page

When clicking on the icon at the top right of the page, a list of orders made by the organizer from the store appears. After approval, the order moves to the "Approved & Rented" list.

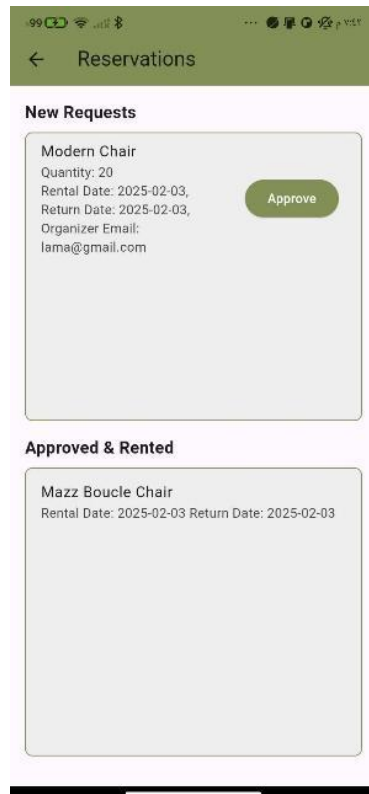


Figure 37 reservation page

The details of any piece of furniture can be edited by clicking the "Change" button located at the bottom of the page.

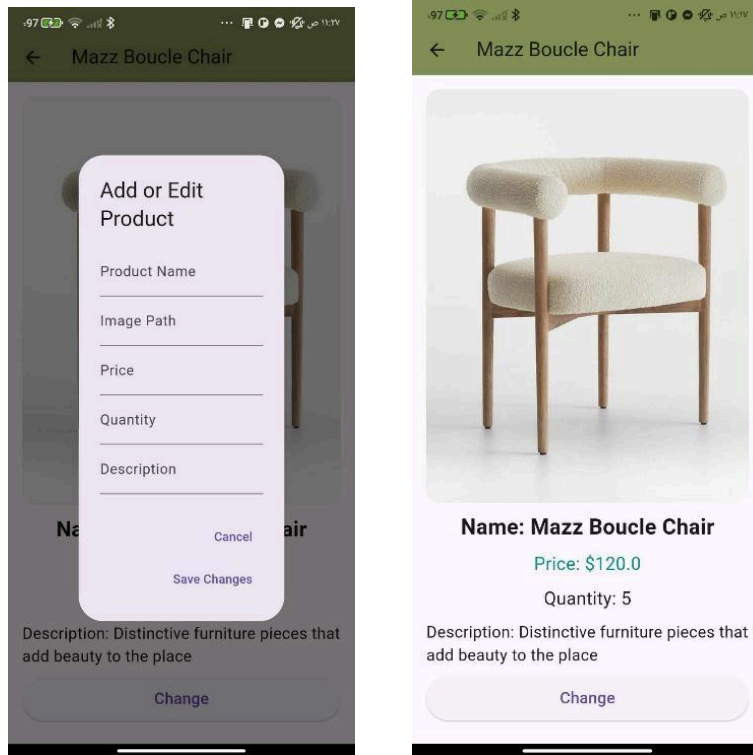


Figure 38 edit item page

We can view the profile page from the bottom right of the page, where the personal information can be managed, including changing the password and other details.

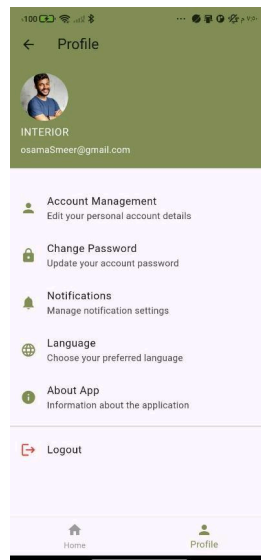


Figure 39 store-owner profile page

It also includes the same features for adding, removing, and other actions in the **Furniture, Music, Places, Decoration, and Restaurants** pages.

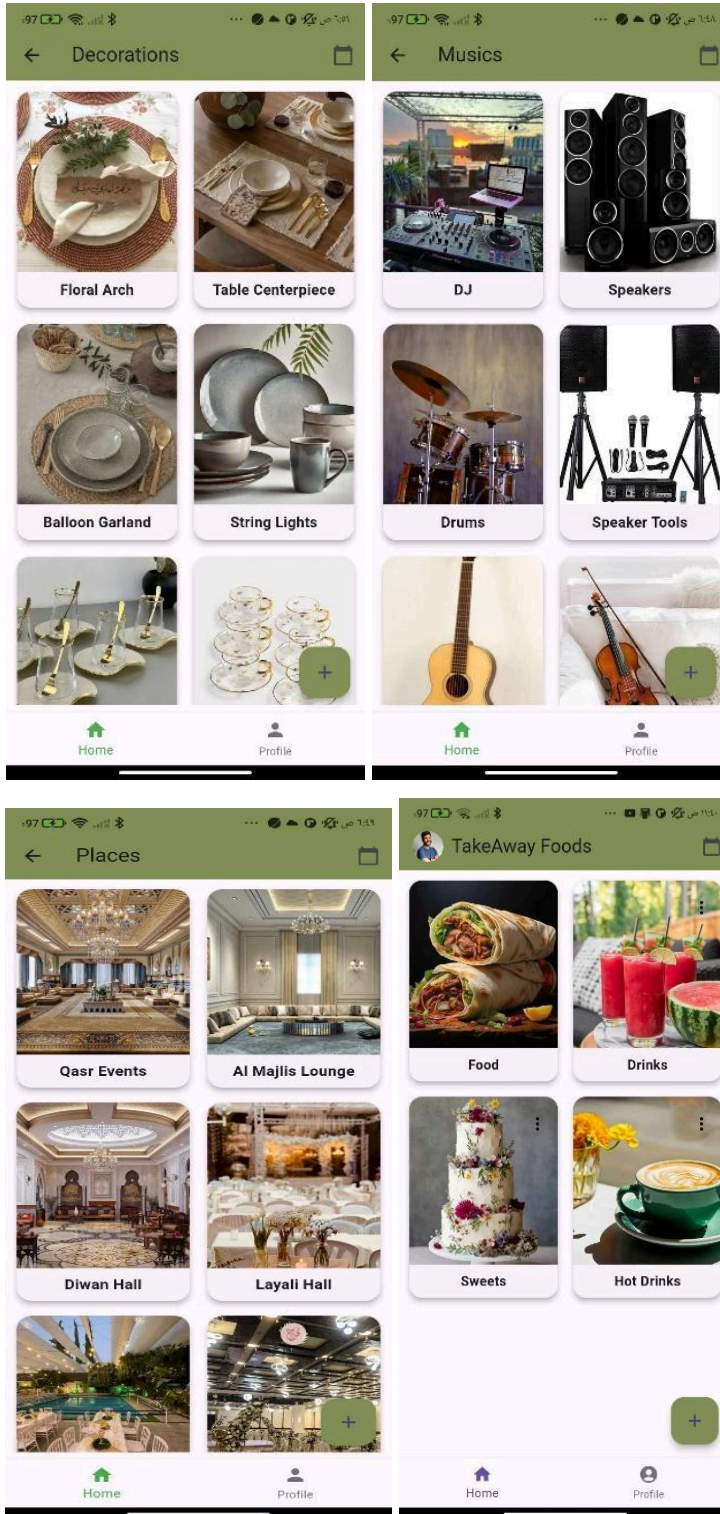


Figure 40 all store-owners

Chapter 5

Conclusion and Future Work

5.1 conclusion:

The development of this application and website has successfully addressed the common challenges faced by both event organizers and attendees. By offering a centralized platform for event planning and discovery, we have made it easier for organizers to manage every aspect of their events while providing attendees with a streamlined way to find and join events. With user-friendly features like smart notifications, a rating system, and the ability to give feedback, the platform enhances both the planning and participation experience.

We are confident that this platform will positively impact the event community by simplifying event management and creating better engagement for participants. We are eager to see how it will evolve and continue to serve the needs of event organizers and attendees alike.

5.2 Future works:

1-Design the application to support multiple languages.

2-enhance the chat system so it supports voice messages, attachments and video calls.

3-make users able to create special events for example birthday parties and send invitations to specific members.

4-add cards feature, which means the organizer can design his business card so he can advertise himself, by adding information to card template and then he can share it.

5- Modify the map system so the user can get the directions to arrive to the specific place he wants to attend the event.

References :

Anderson, T., Smith, P., & Roberts, J. (2018). *Improving Event Discovery through Digital Platforms*. Journal of Event Management, 15(3), 245-257.

Baker, R. (2019). *The Role of Digital Platforms in Streamlining Event Management*. International Journal of Event Planning, 12(2), 101-113.

Chen, L., & Lee, J. (2021). *Enhancing User Engagement with Smart Calendars for Event Planning*. Technology and Society, 24(1), 40-52.

Cheng, X., & Zhang, Y. (2021). *Public and Private Events: A Comparative Analysis*. Event Organization Review, 13(4), 160-172.

Johnson, A., & Miller, S. (2020). *Managing Events on a Budget: Challenges and Solutions*. Journal of Event Economics, 18(2), 135-147.

Kumar, P., & Patel, V. (2020). *The Impact of Ratings and Reviews on Event Success*. Journal of Customer Experience, 9(3), 50-62.

Miller, D. (2020). *Simplifying Payments for Event Organizers: A Case Study*. International Conference on Event Technologies, 7(1), 23-35.

Rodriguez, M. (2019). *Challenges in Event Discovery for Users and How to Solve Them*. Journal of Online Events, 22(1), 17-29.