



TECH TIES

January 2024



TechTies

Tech Ties

Enhancing Social and Academic
Experiences for Engineering Students

An-Najah National University

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- Ana'a Bouzia

Supervisor:

- Dr. Abdallah Rashid

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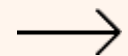
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Future
Work

Introduction

General Background:

- Importance of technology in modern education.
- Challenges faced by engineering students: interaction, resources, accommodation.



TechTies

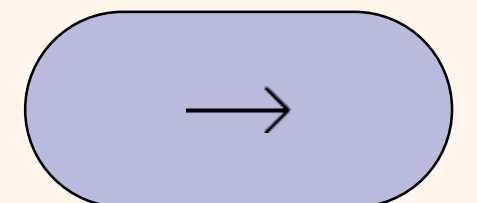
Introduction

Objectives:

- Simplify housing selection.
- Promote resource sharing and academic collaboration.
- Support student-run small businesses.
- Enhance overall learning experiences.



TechTies



Project Significance

- Key Points:



01

Addresses critical issues for engineering students.

02

Reduces stress by simplifying accommodation processes.

03

Encourages collaboration and teamwork.

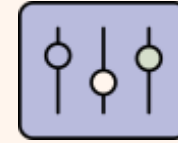
04

Promotes entrepreneurial activities among students.

05

Creates a supportive and resourceful educational environment.

Theoretical Background and Previous Work



Current Platforms:

- Focus on either social networking or resource sharing.



TechTies Solution:

- Integrates various features into a single platform.
- Combines the benefits of existing solutions with innovative functionalities.

Student Registration

Username
tasneem

Email
s12028850@stu.najah.edu

An-Najah National University

Software Engineering

City
nabius

Year of Enrollment
2020

Graduation Year
2025

Register





Tasneem


s12028850@istu.najah.edu


Software Engineering

 Home

 Majors

 Housing

 Small Businesses

 Connect Us

Features:

- Resource sharing.
- Housing selection.
- Academic collaboration.
- Support for student-run businesses.

Methodology

Research and Design:

- Extensive study on student requirements.
- User-friendly interfaces and efficient workflows.
- Prototypes and wireframes development.

Development:

- Front-end: Flutter framework for responsive design.
- Back-end: Node.js with MongoDB and Firebase Realtime Database for real-time features.

Testing:

- Unit testing for individual components.
- Integration testing for overall functionality.

PROMOTING YOUR BUSINESS-WEB

Submit Business Promotion

City: ramallah

Street: nablus


Contact Email: elec@gmail.com

Contact Phone: 0569875632

Payment Method: Reflect

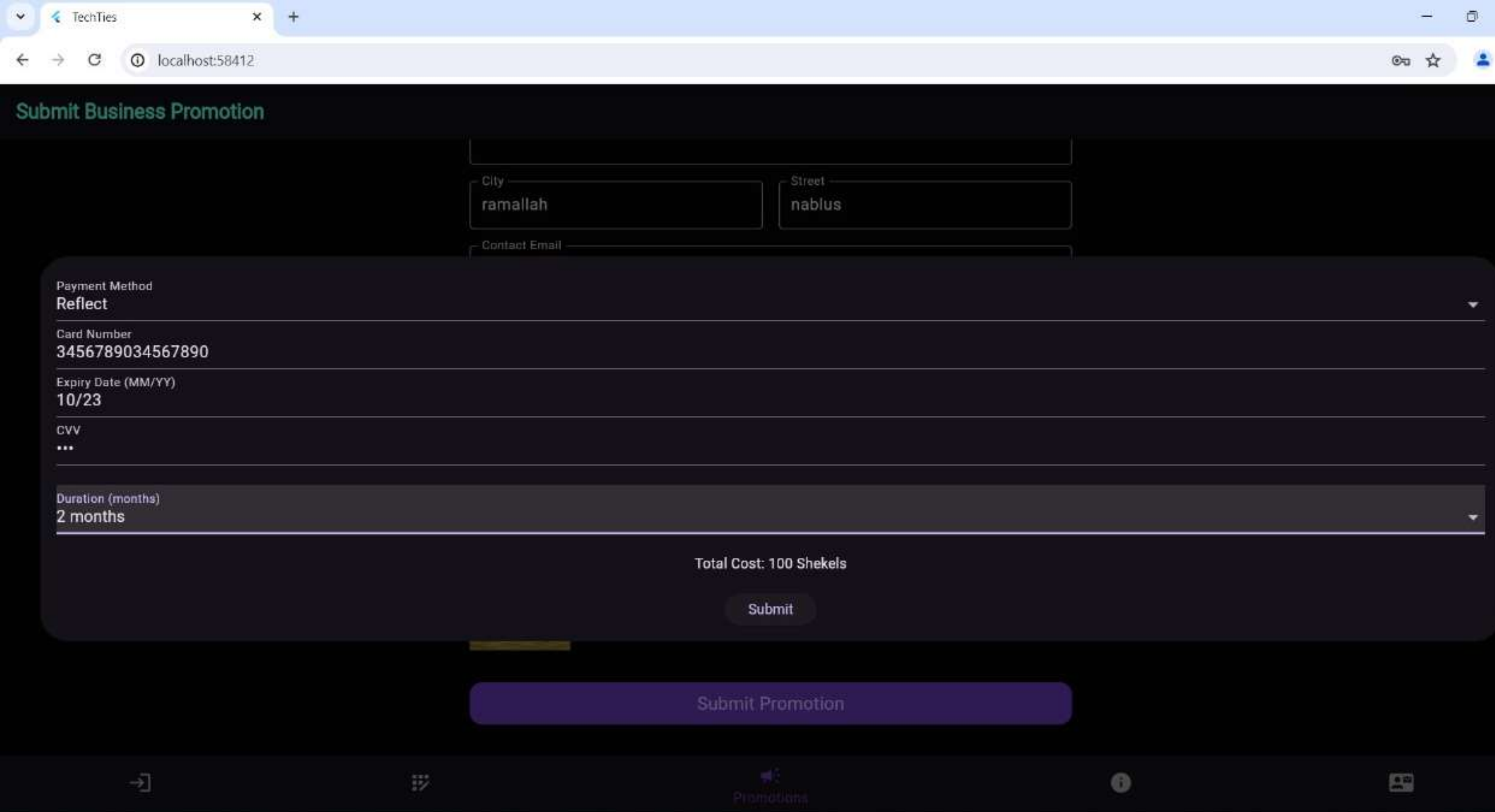
Business Type: Business

Select Images



Submit Promotion

Mobile navigation bar: Home, Promotions, Profile



**PROMOTING YOUR
BUSINESS-WEB**

9:02 PM 36% 86

Submit Business Promotion

Promote Your Business or Housing Services

You can promote your student-related business or housing services on our platform. Please note that a fee is required for posting your promotion. Once submitted, your promotion will be reviewed by our admin team for approval.

Title

Description

City Street

Contact Email

Contact Phone

Promotions

9:02 PM 36% 86

Submit Business Promotion

Description

City Street

Contact Email

Contact Phone

Payment Method
Reflect

Business Type
Business

Select Images

No images selected

Submit Promotion

Promotions

9:04 PM 38% 86

Submit Business Promotion

Bethlehem uni

Contact Email
fe.house@gmail.com

Business


Housing

Please enter a valid phone number starting with 05 ...

Payment Method
Reflect

Business Type
Business

Select Images



Submit Promotion

Promotions

11:39 PM 29.7% 94

Submit Business Promotion

Description
females only housing, drooms with everything you may need!

City

Payment Method
Reflect

Card Number
4567890145678901

Expiry Date (MM/YY)
11/25

CVV
...

Duration (months)
3 months

Total Cost: 150 Shekels

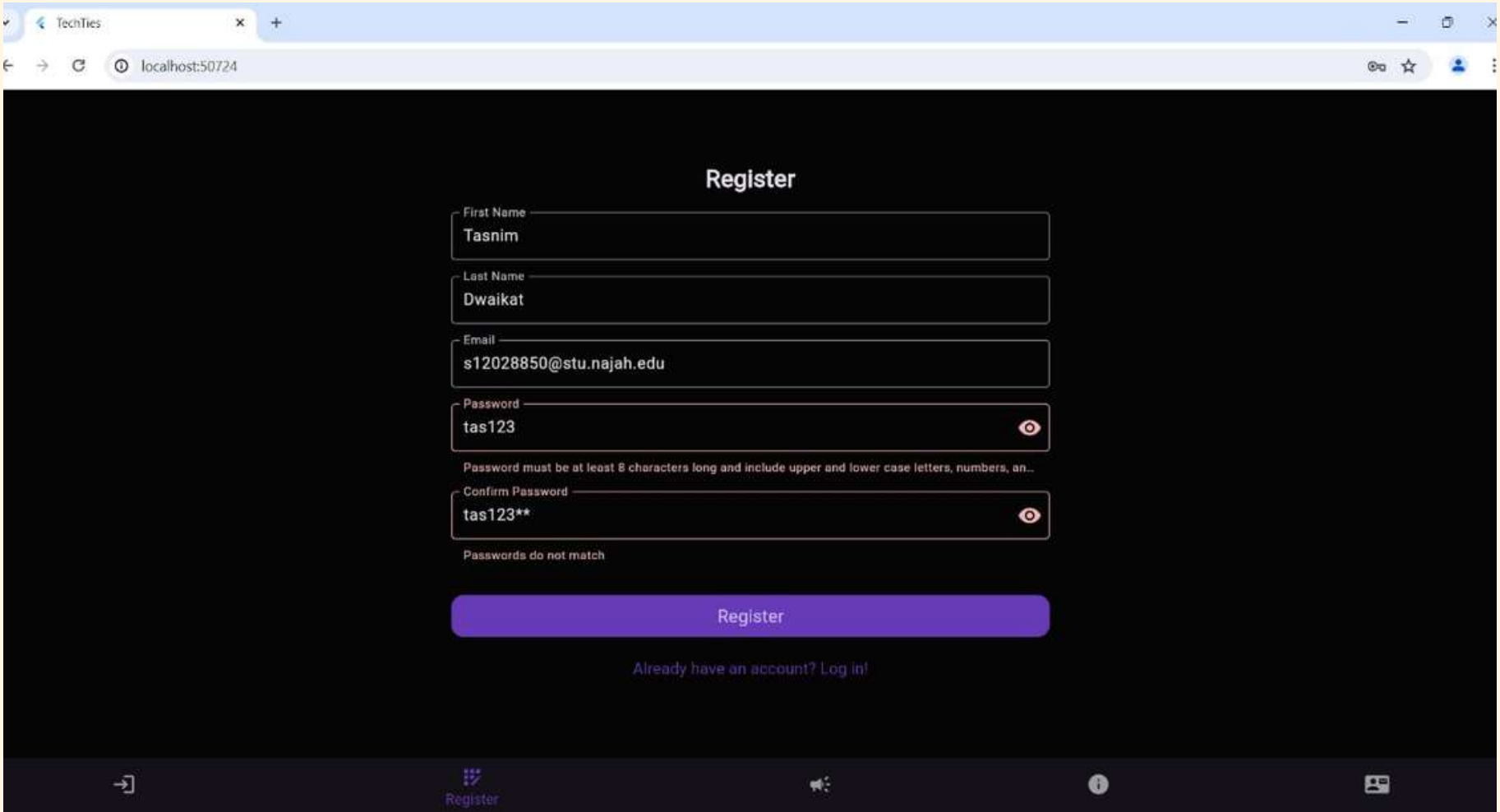
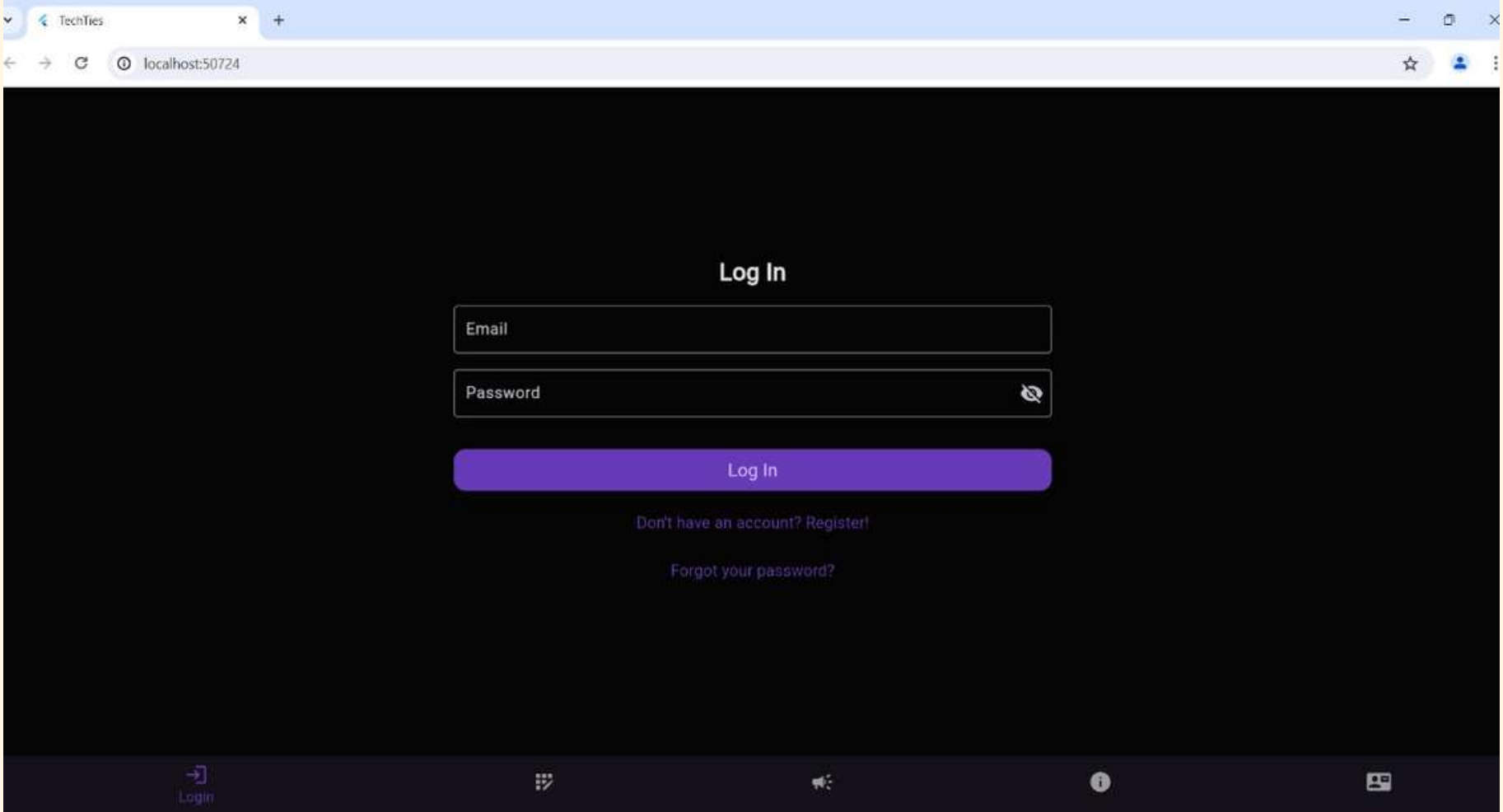
Submit

Submit Promotion

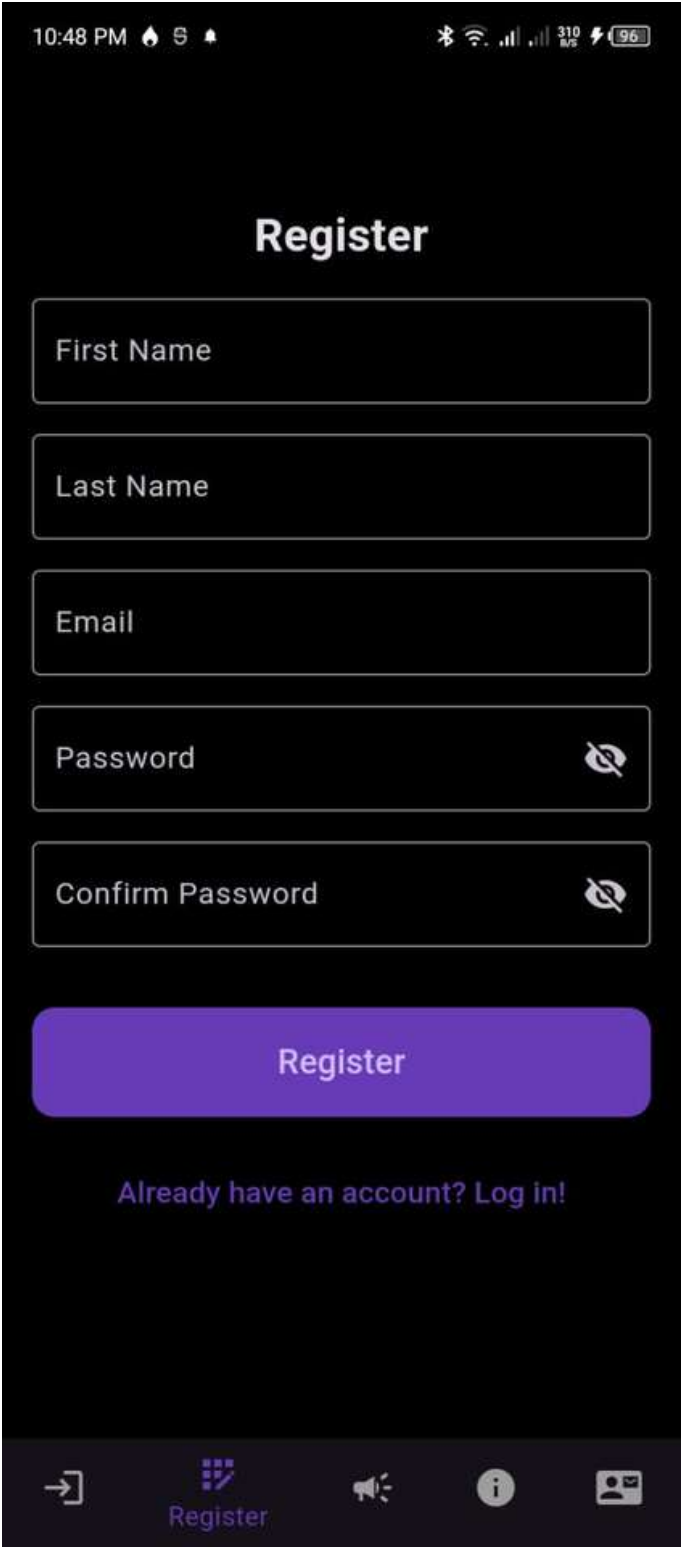
Promotions

REGISTRATION

WEB



REGISTRATION



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Register

First Name

Last Name

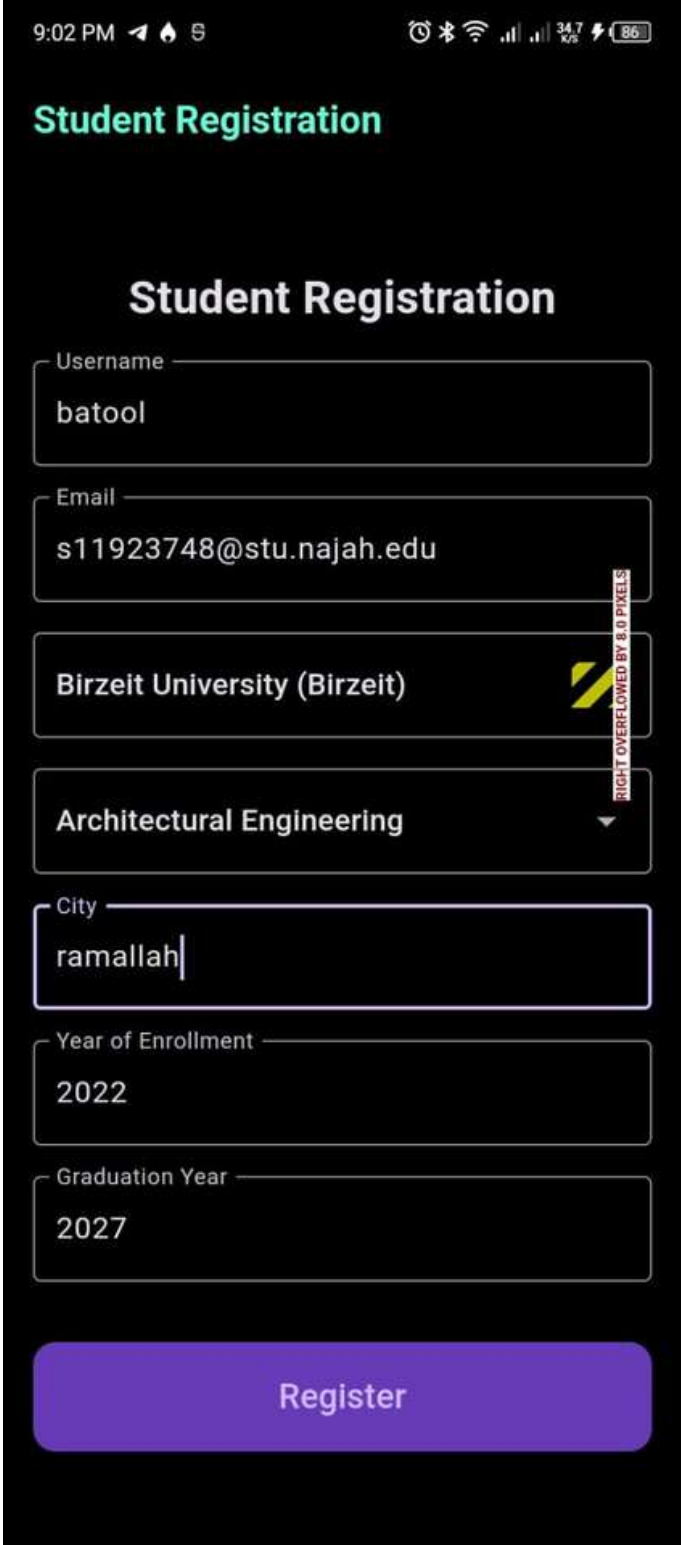
Email

Password

Confirm Password

Register

Already have an account? Log in!



9:02 PM 86% battery

Student Registration

Username
batool

Email
s11923748@stu.najah.edu

Birzeit University (Birzeit)

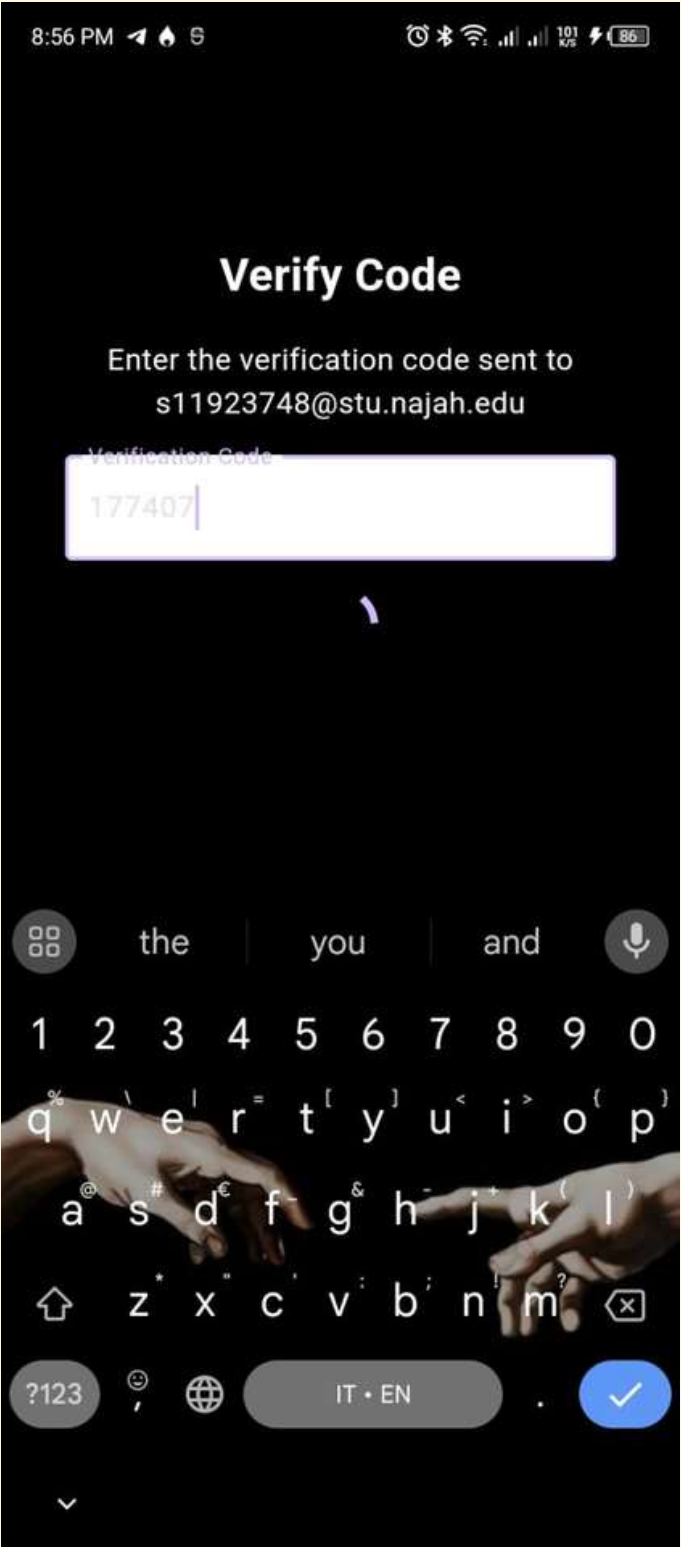
Architectural Engineering

City
ramallah

Year of Enrollment
2022

Graduation Year
2027

Register



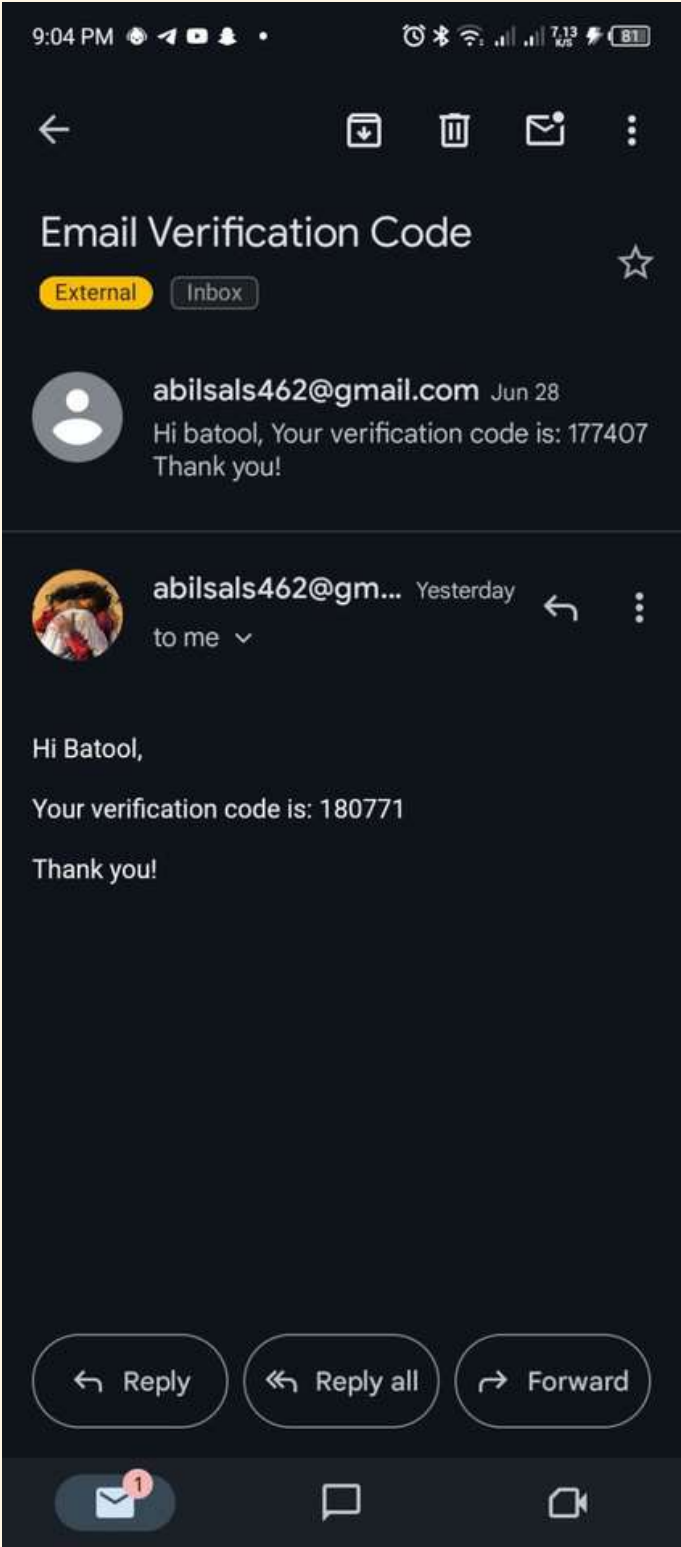
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Verify Code

Enter the verification code sent to
s11923748@stu.najah.edu

Verification Code
177407

Keyboard visible



9:04 PM 81% battery

Email Verification Code

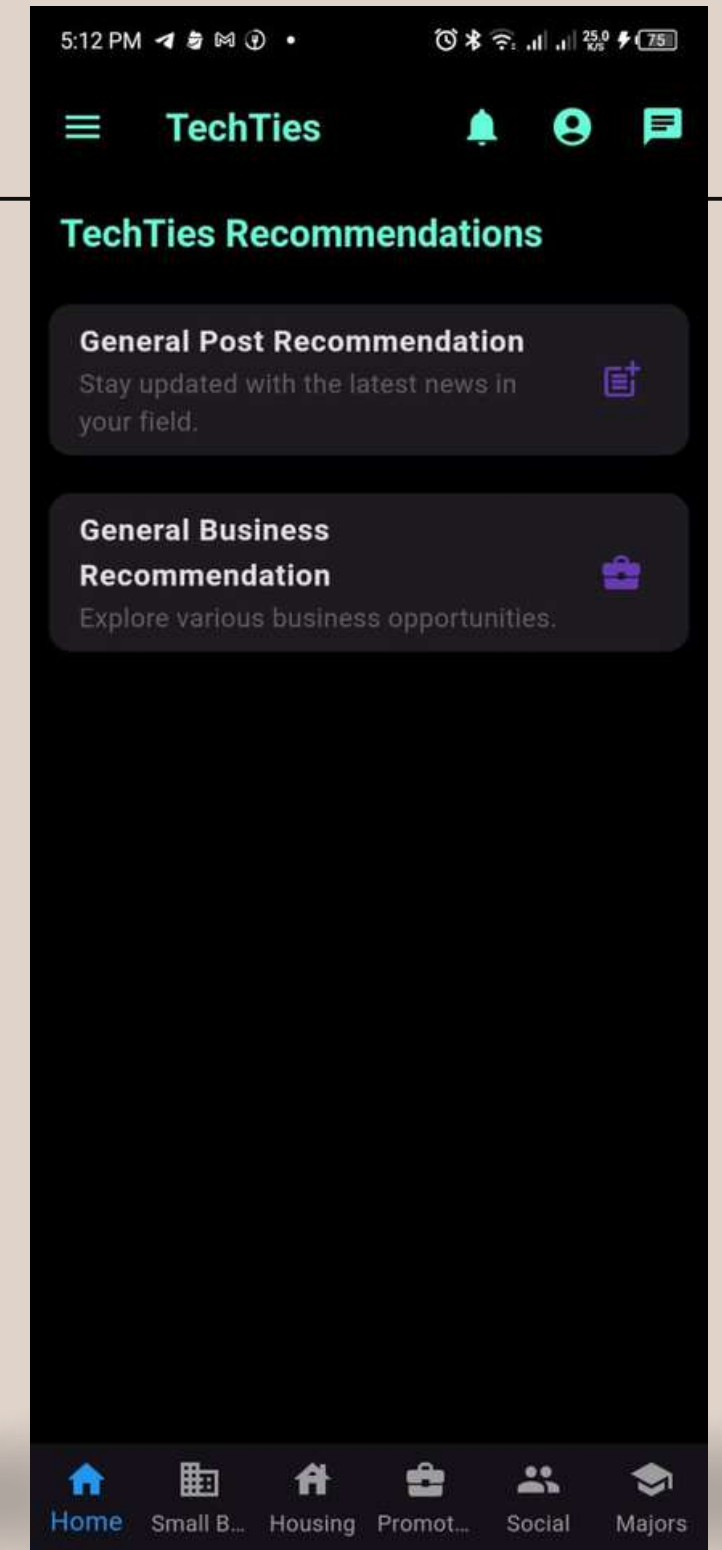
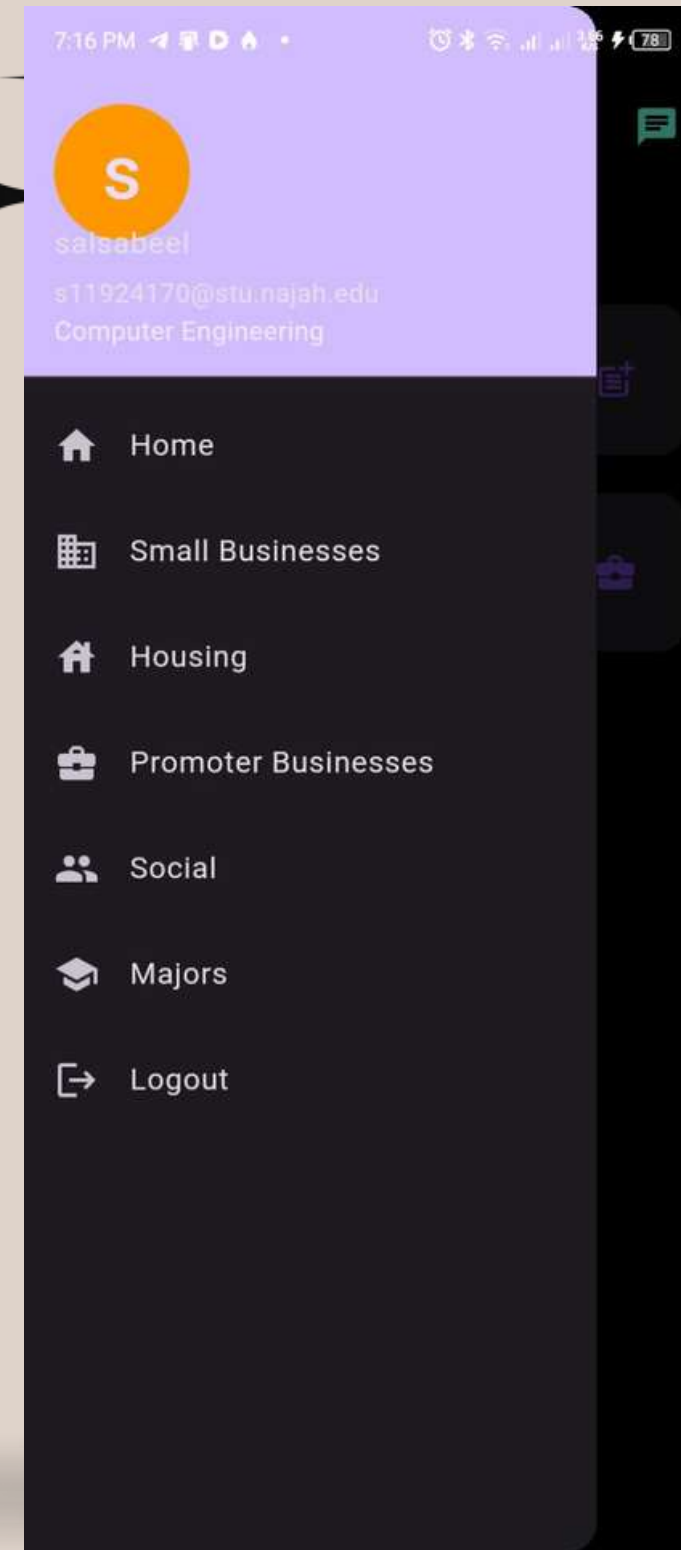
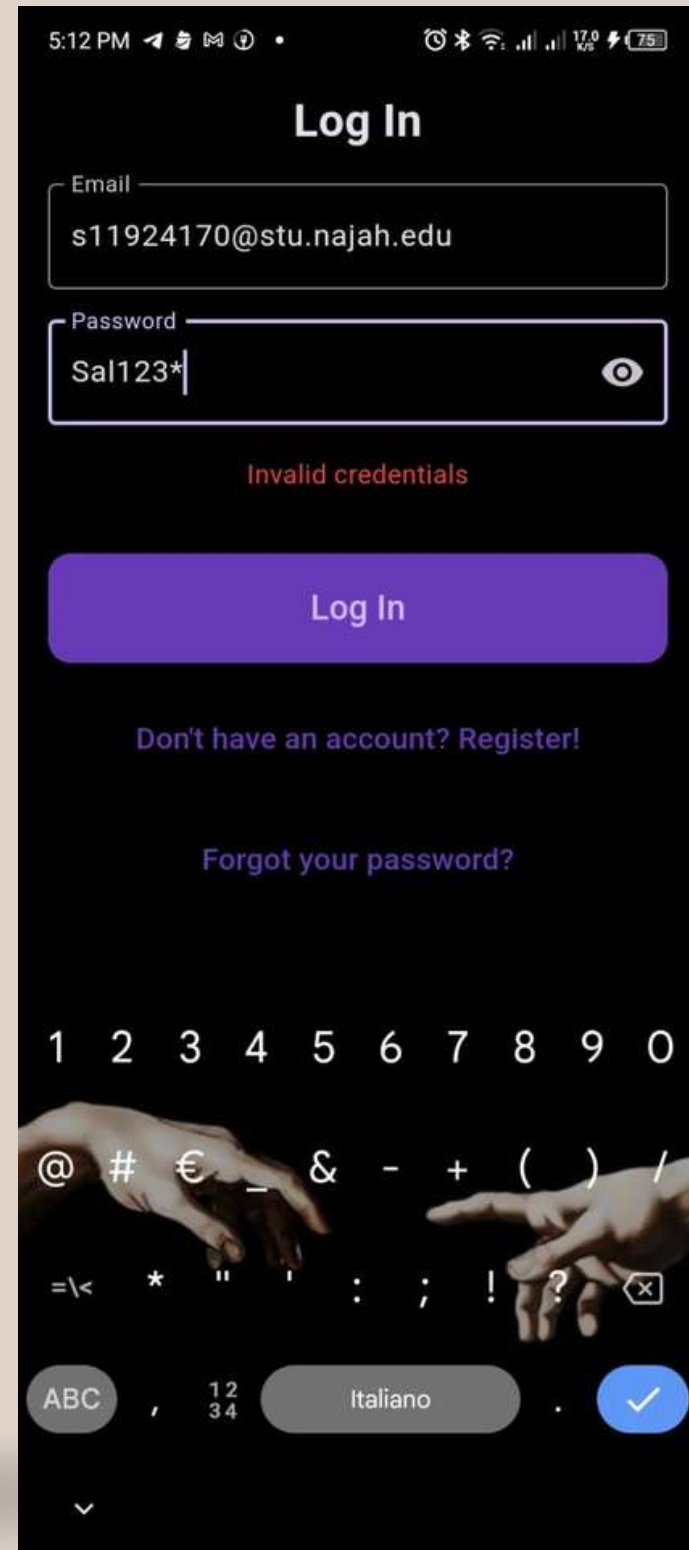
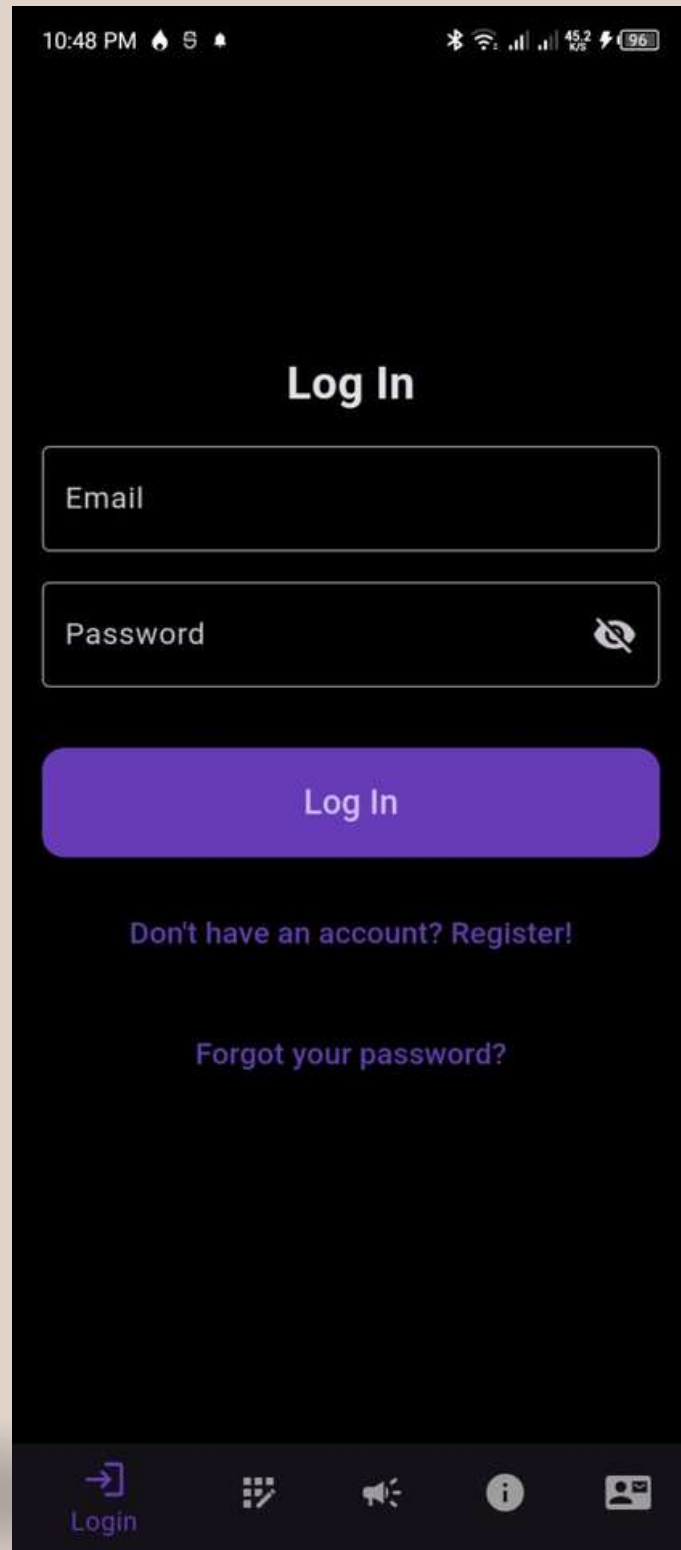
External | Inbox

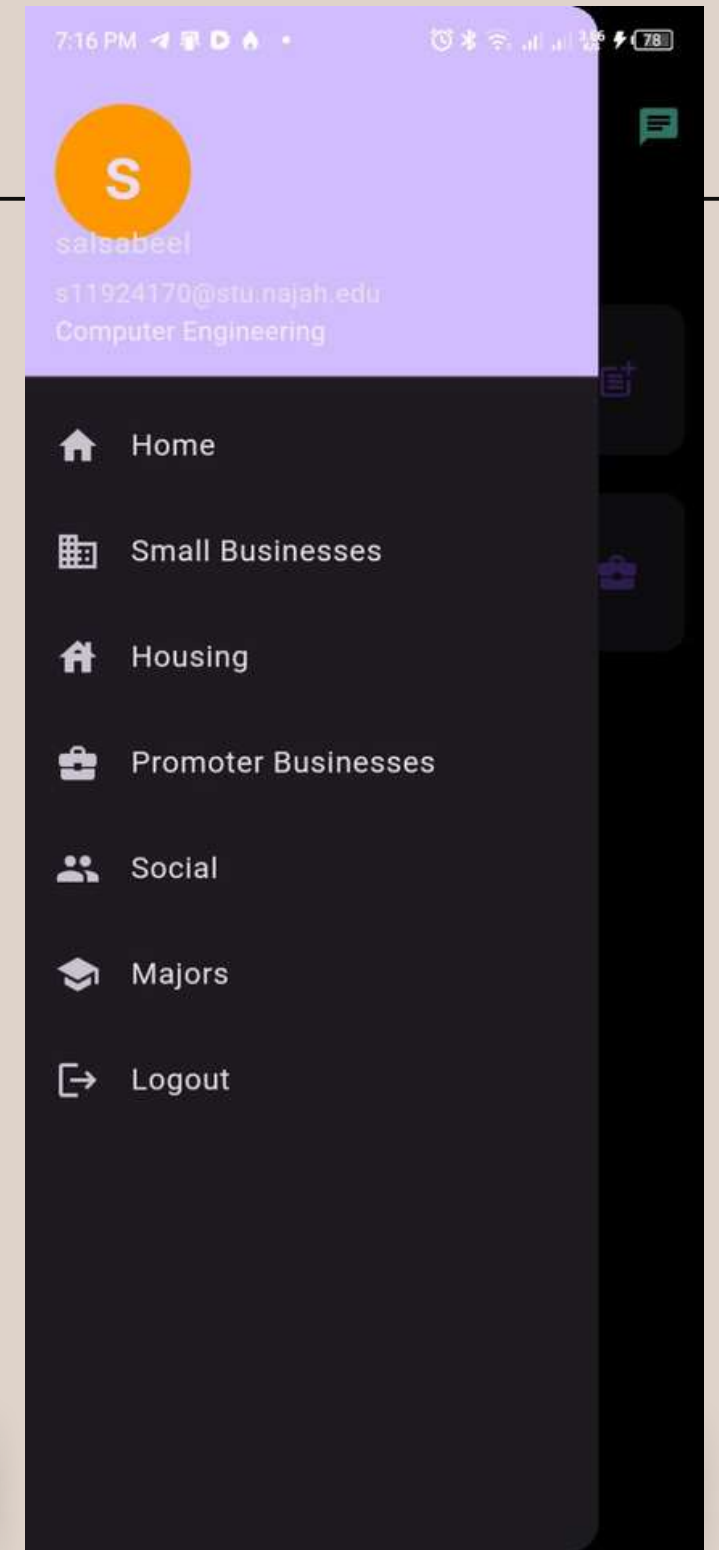
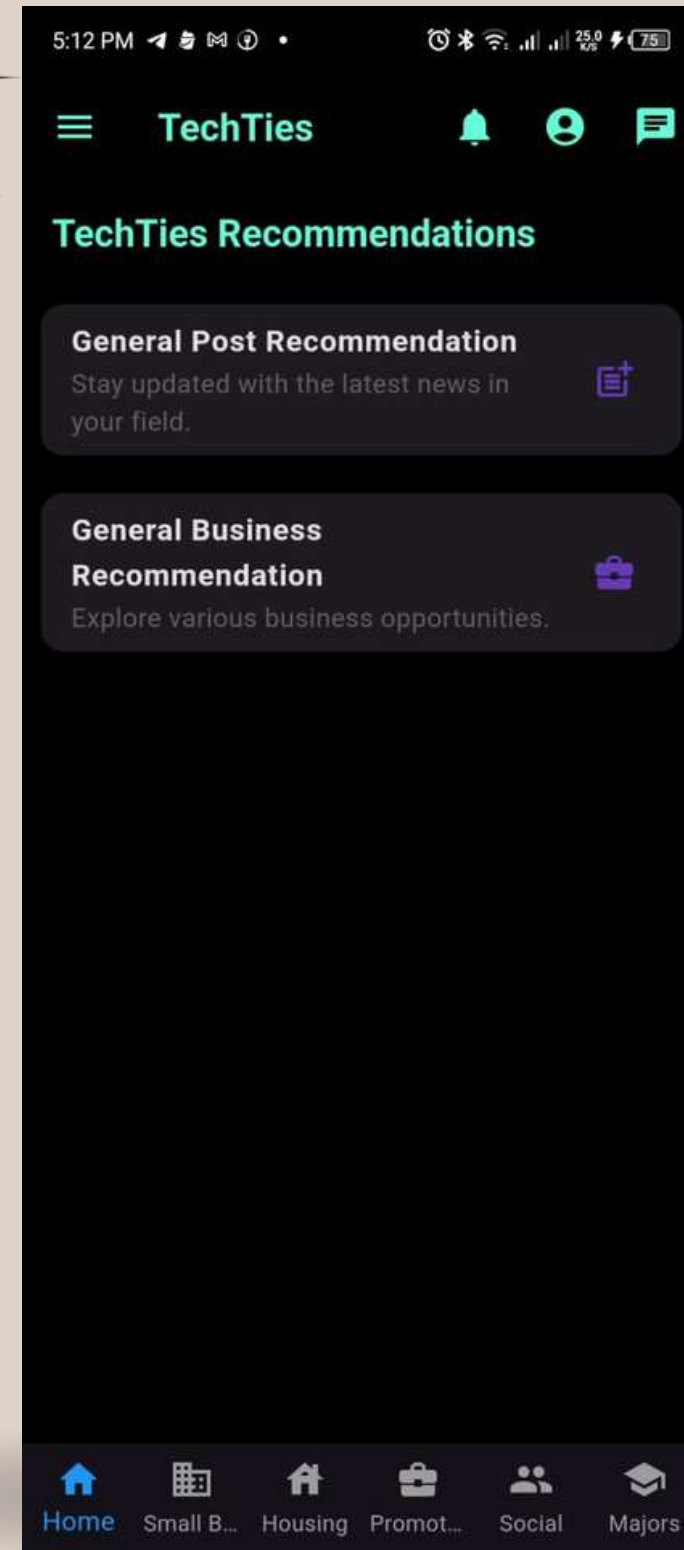
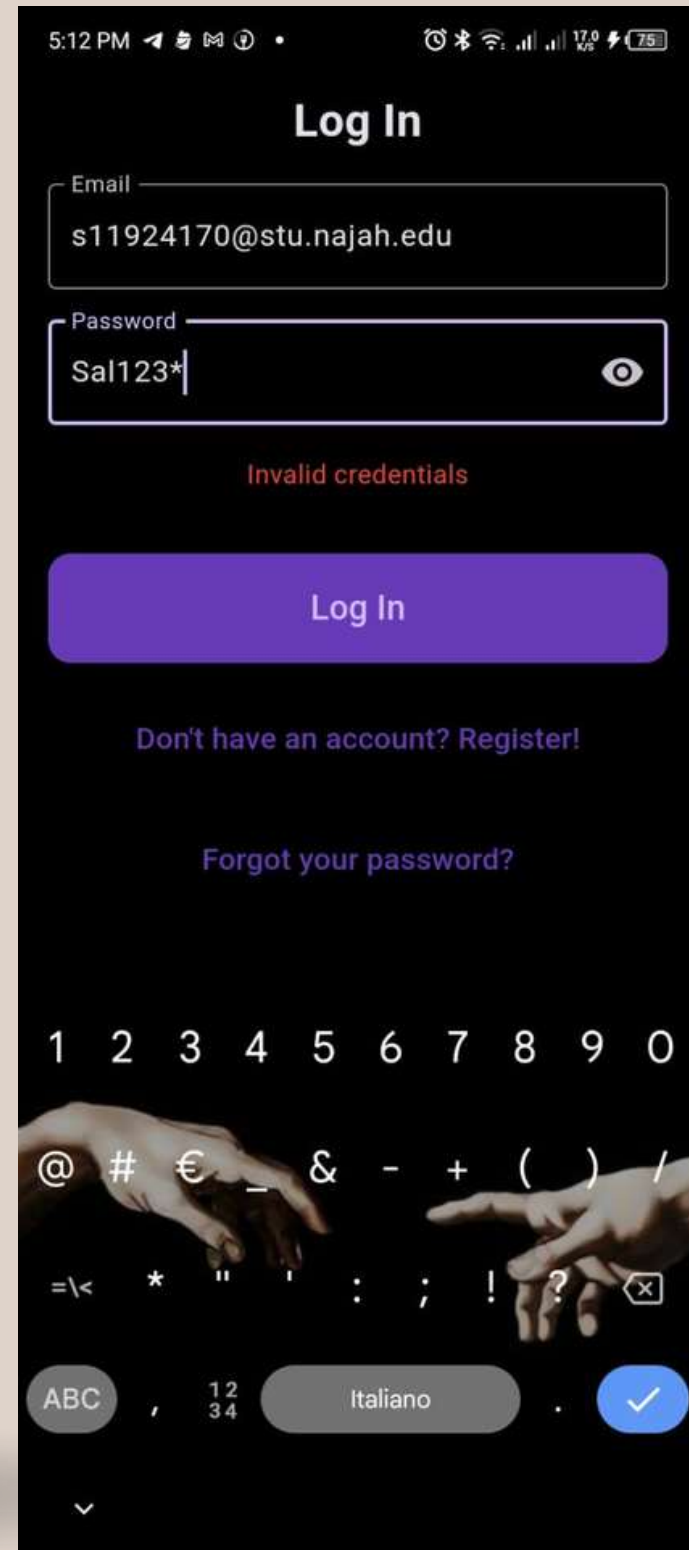
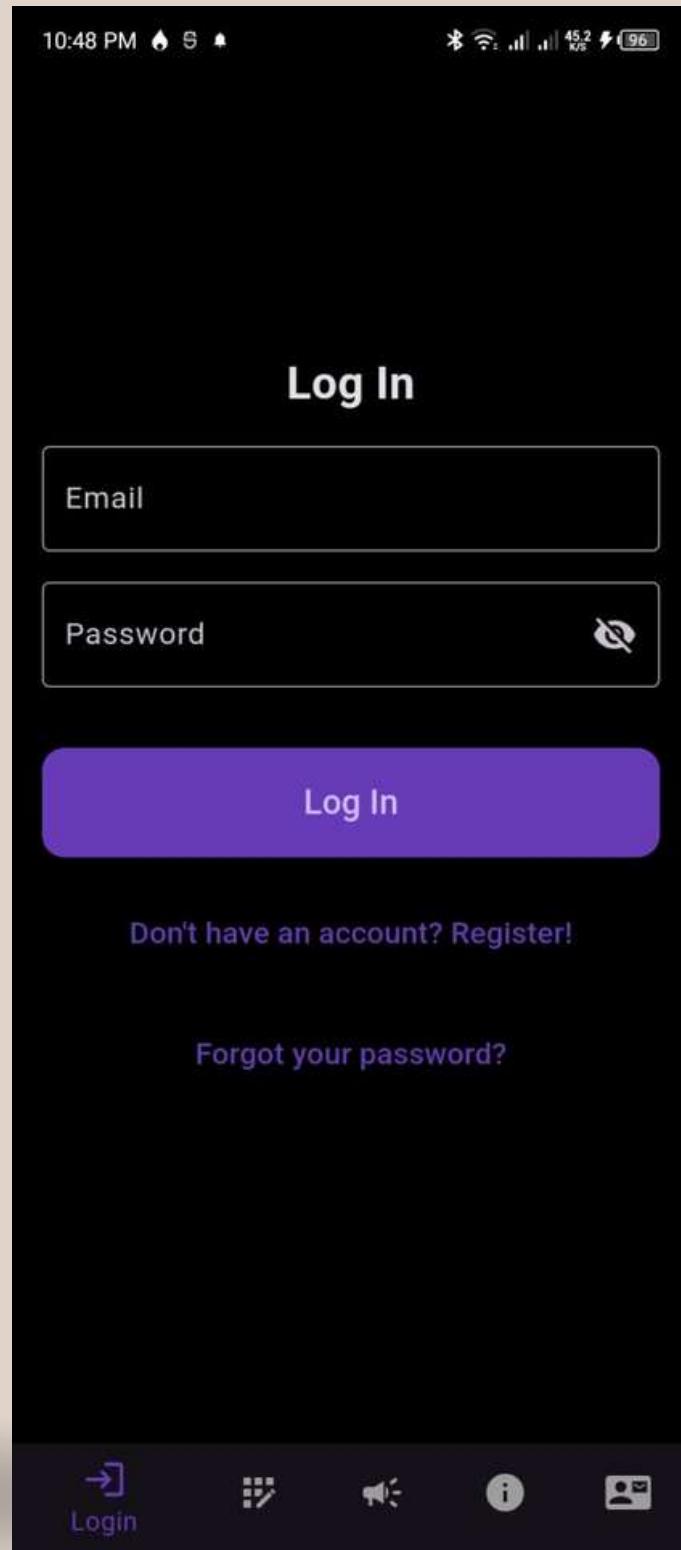
abilsals462@gmail.com Jun 28
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Thank you!

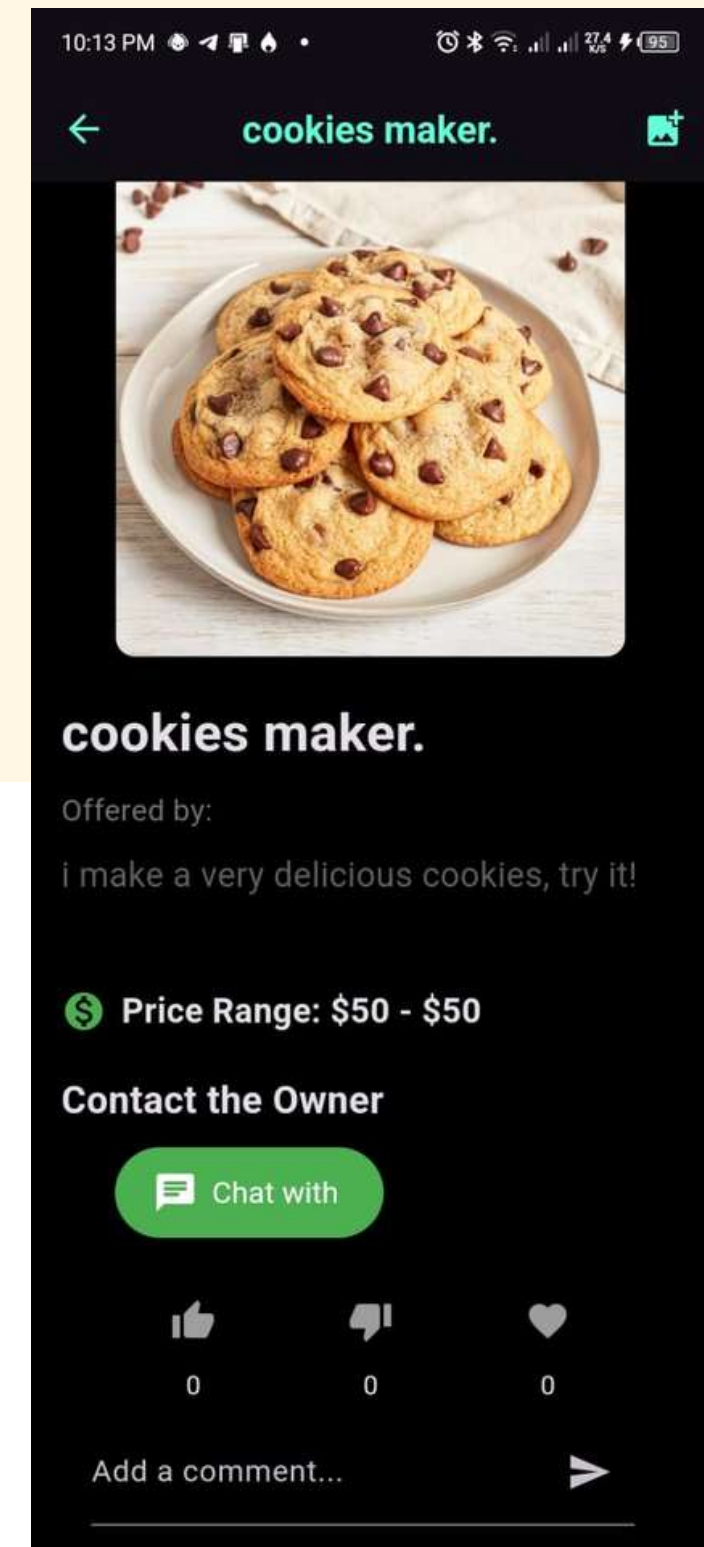
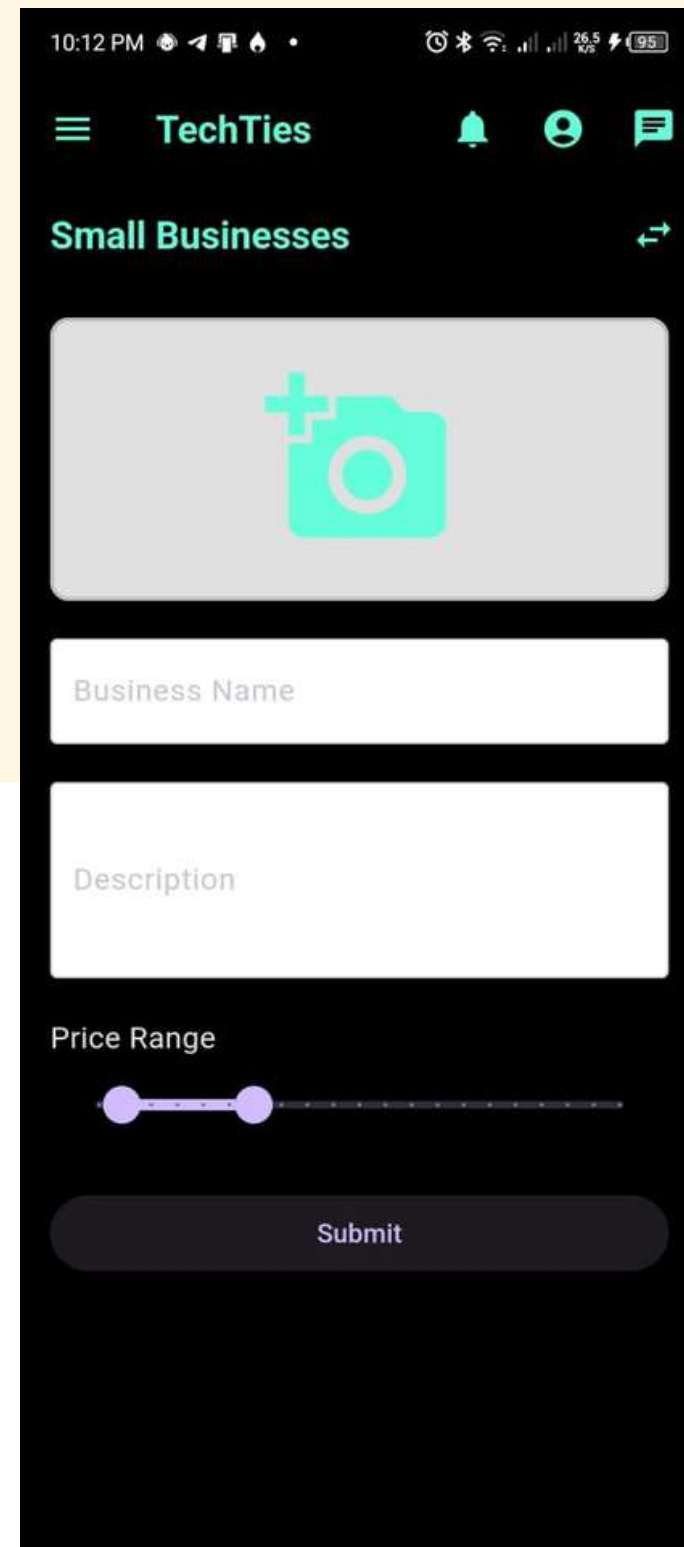
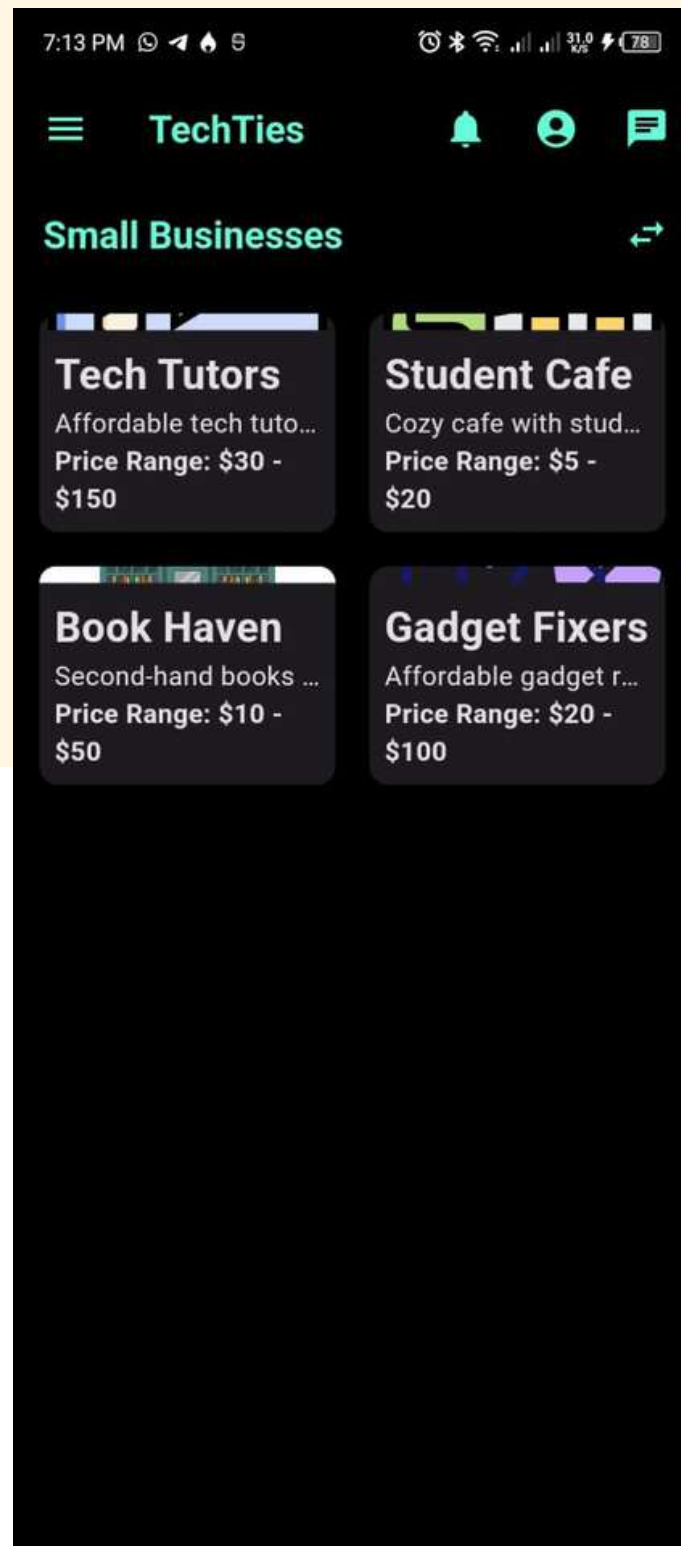
abilsals462@gm... Yesterday
to me

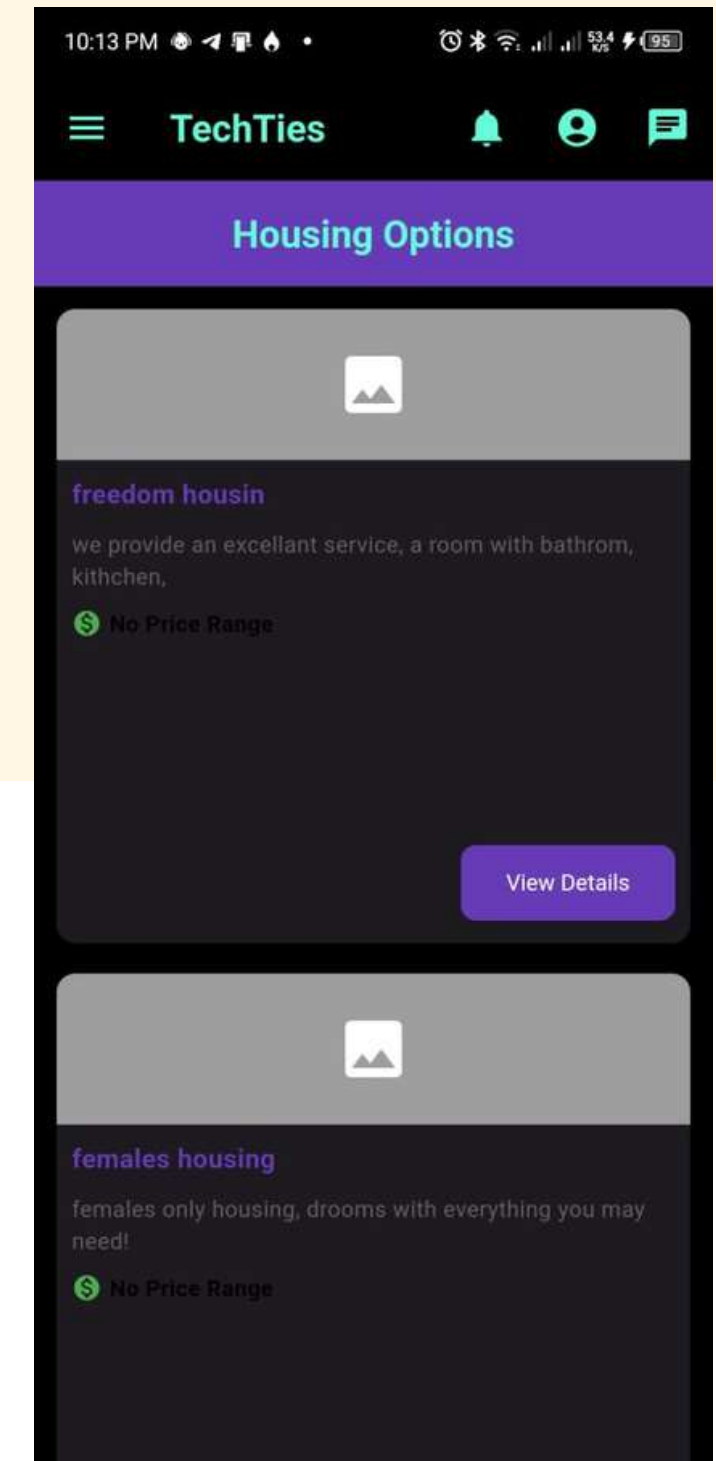
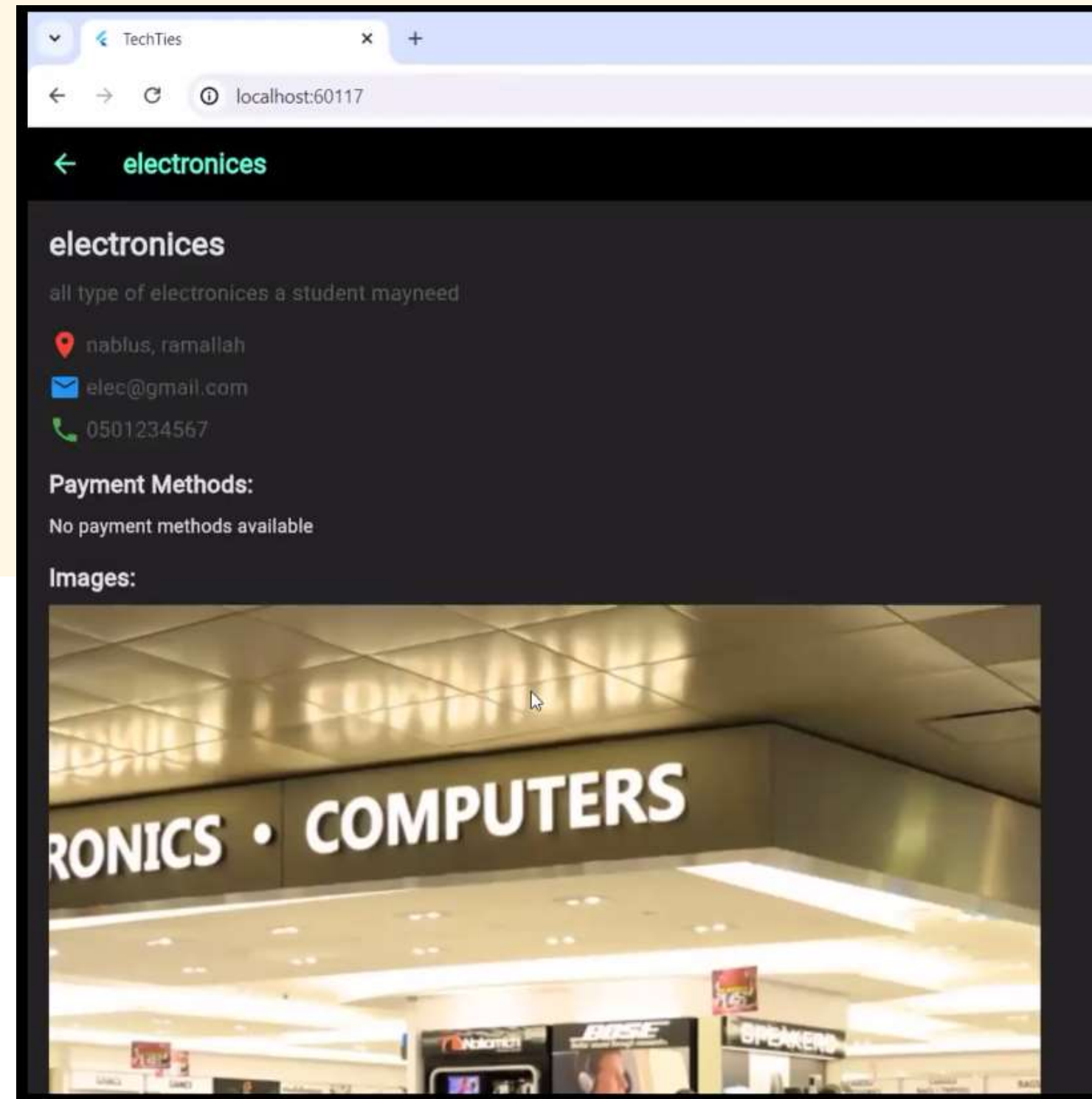
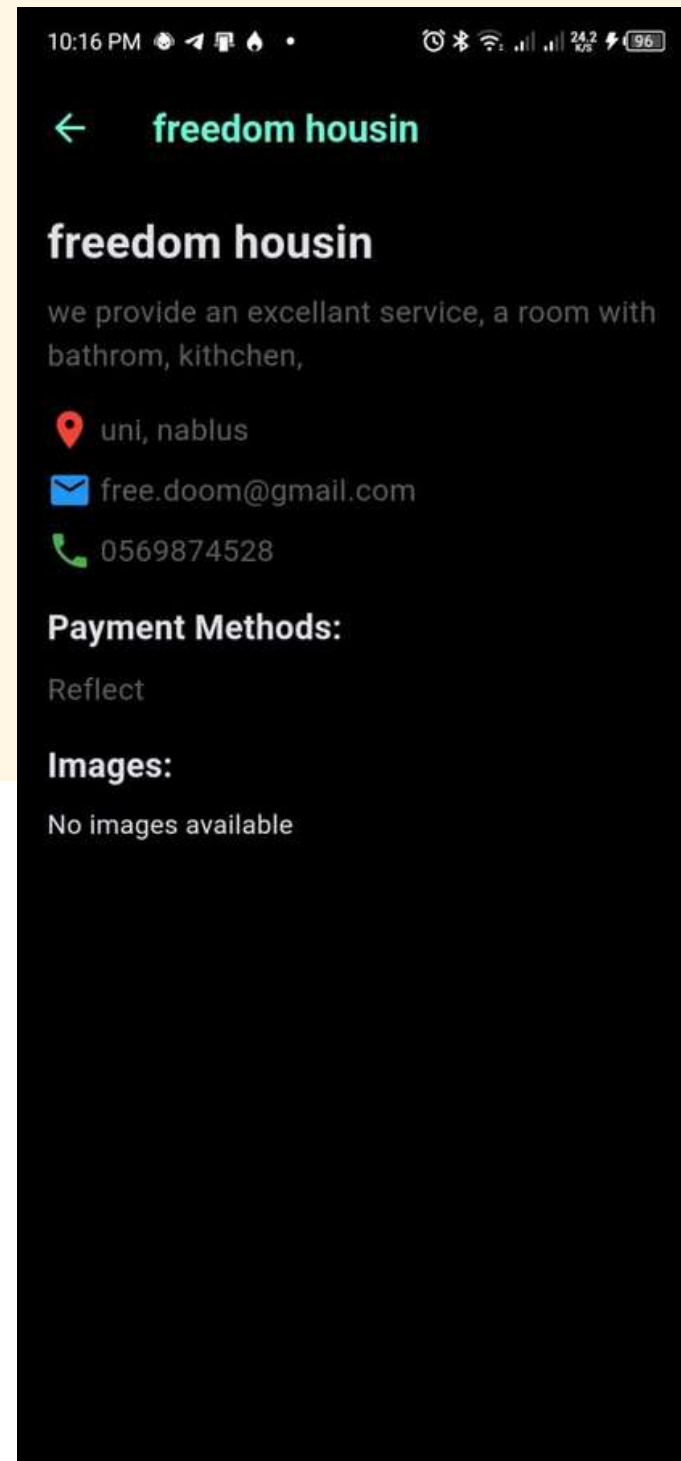
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Your verification code is: 180771
Thank you!

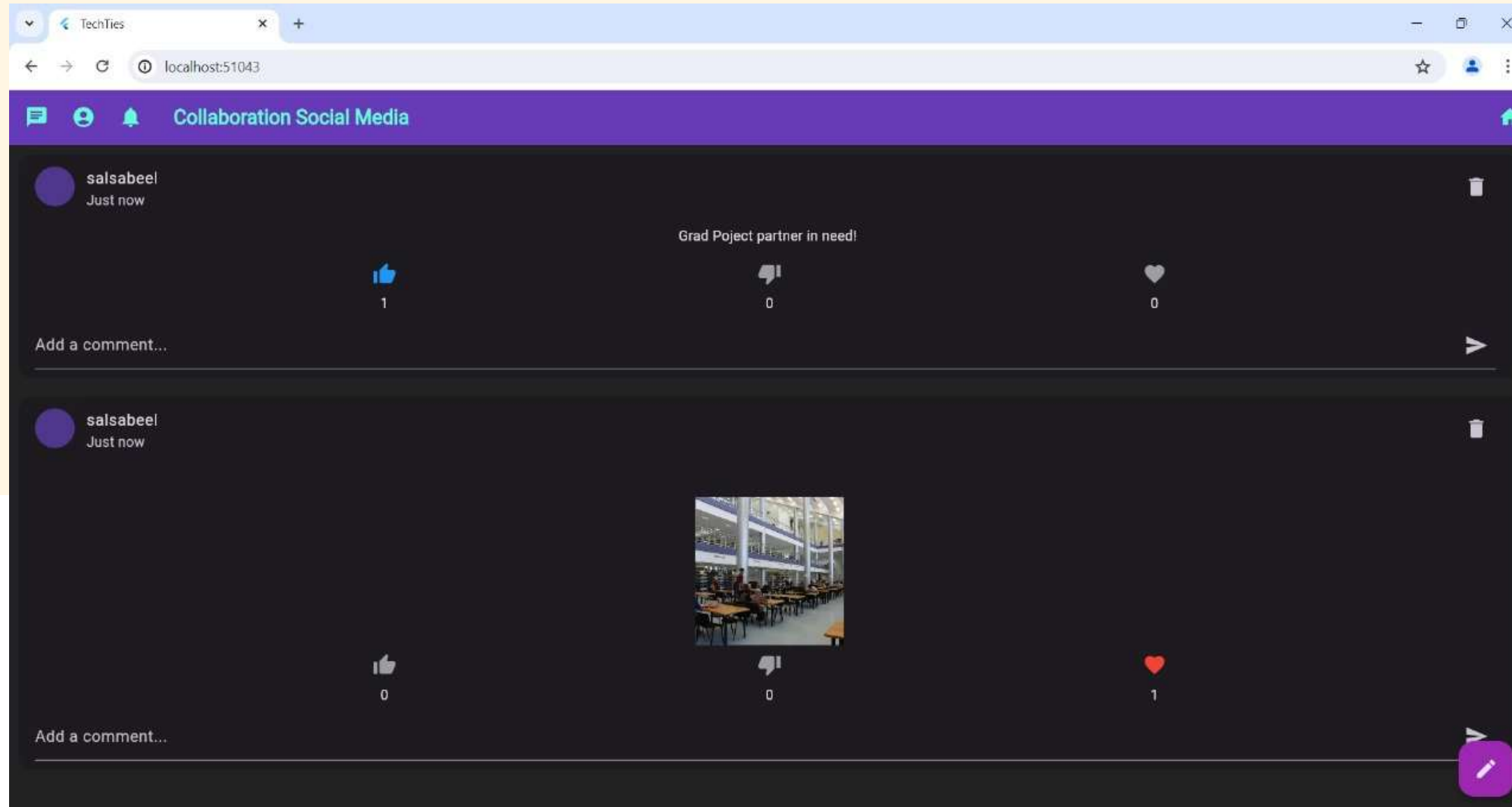
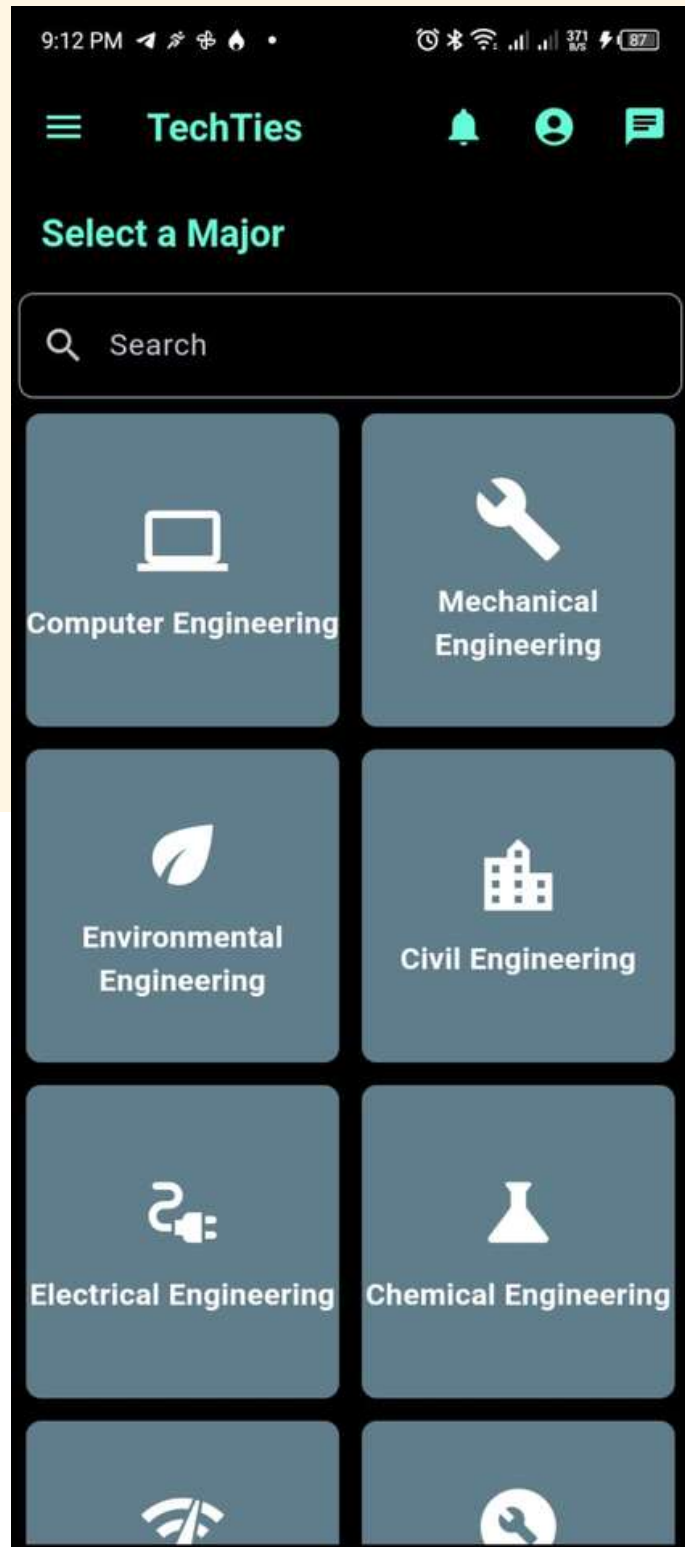
Reply | Reply all | Forward

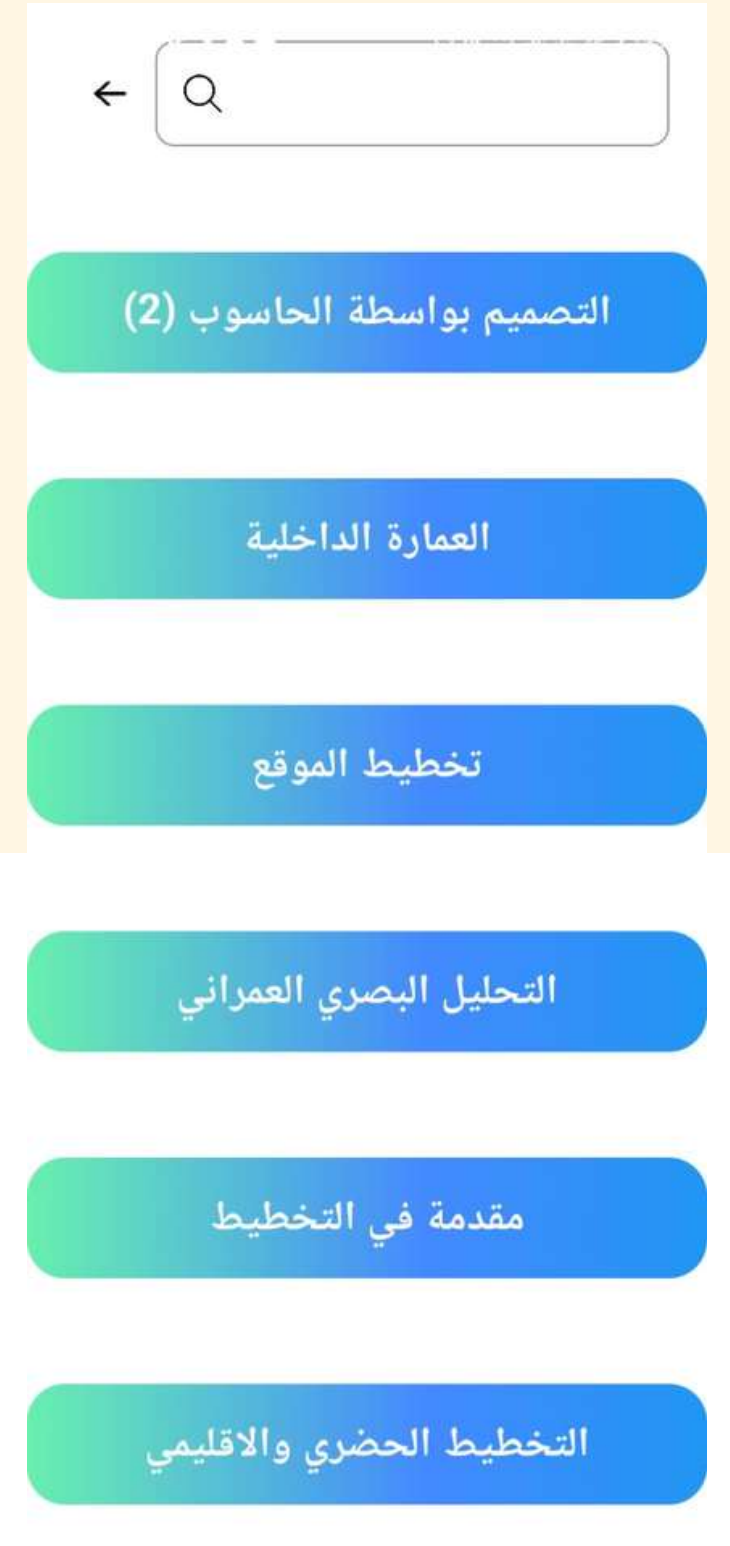
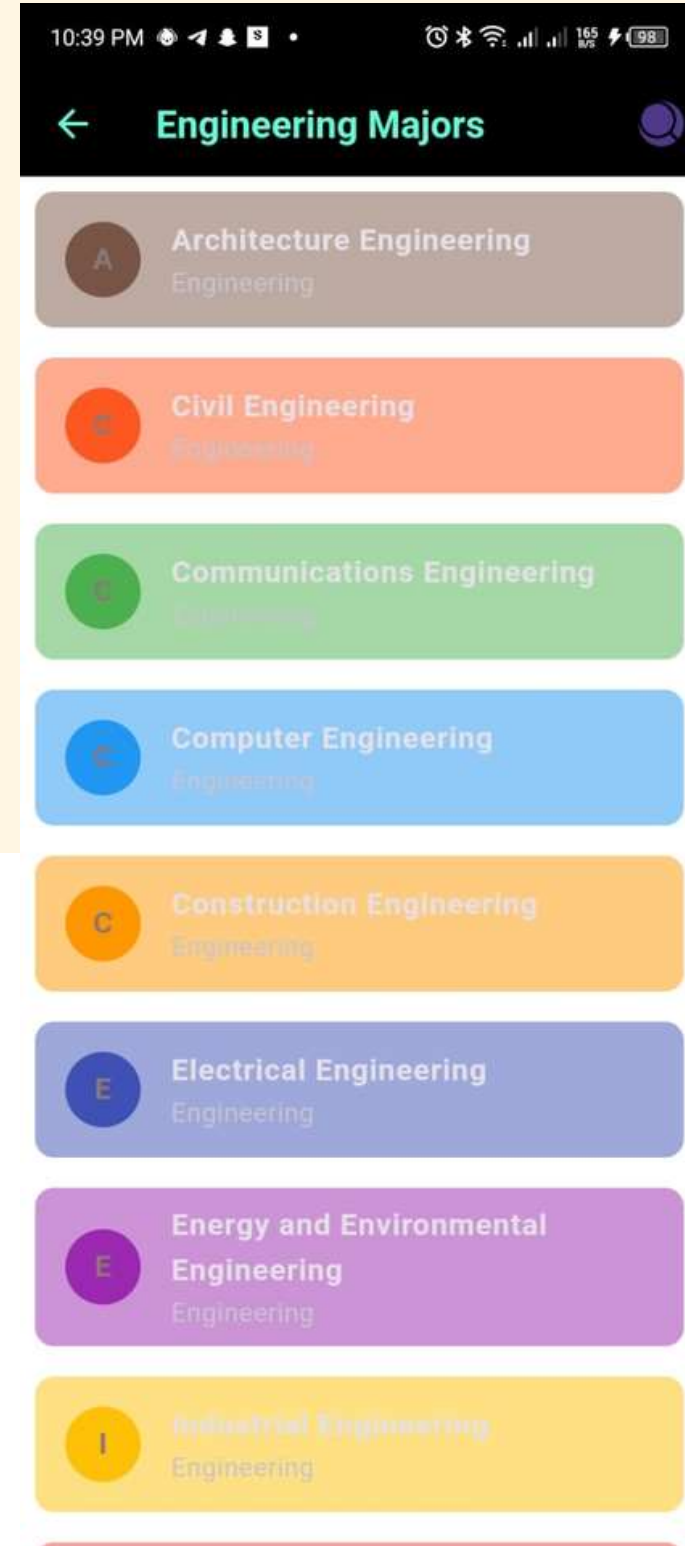
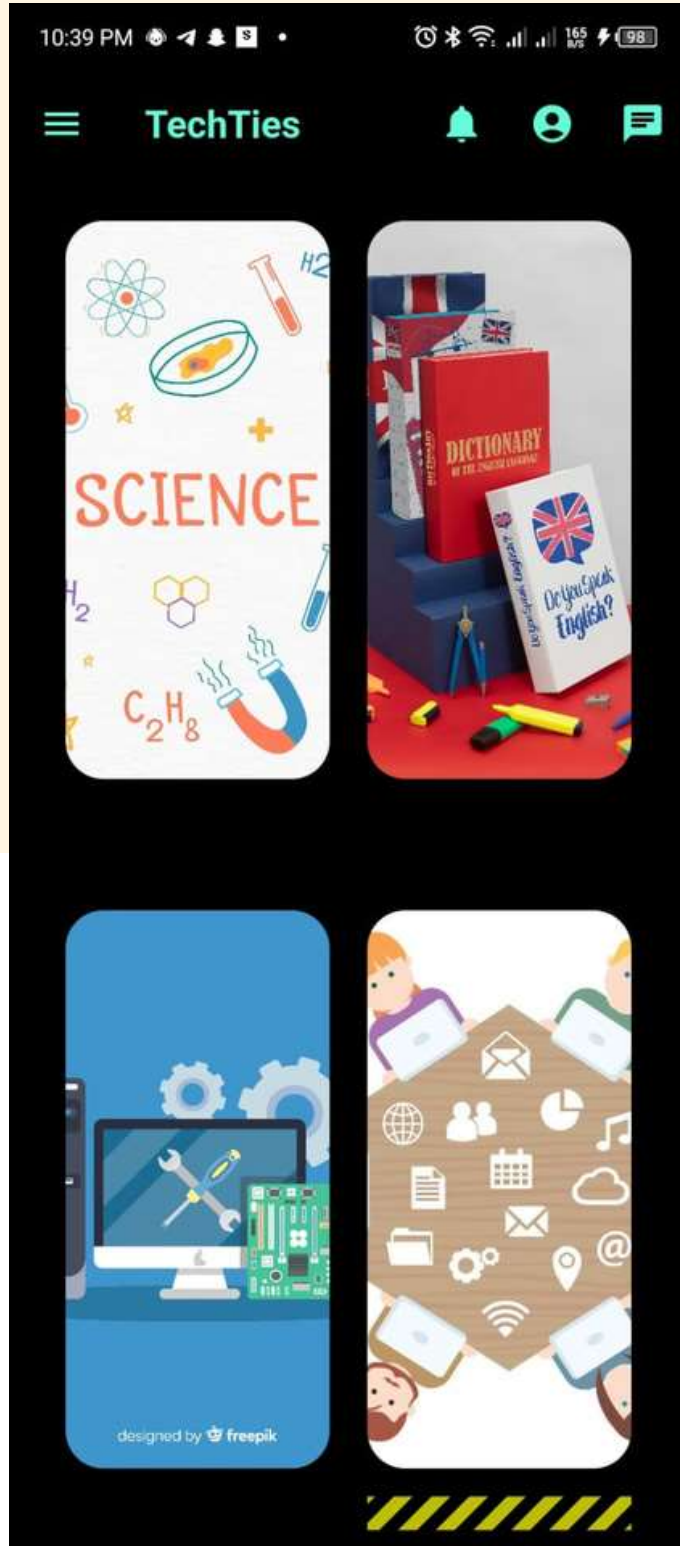














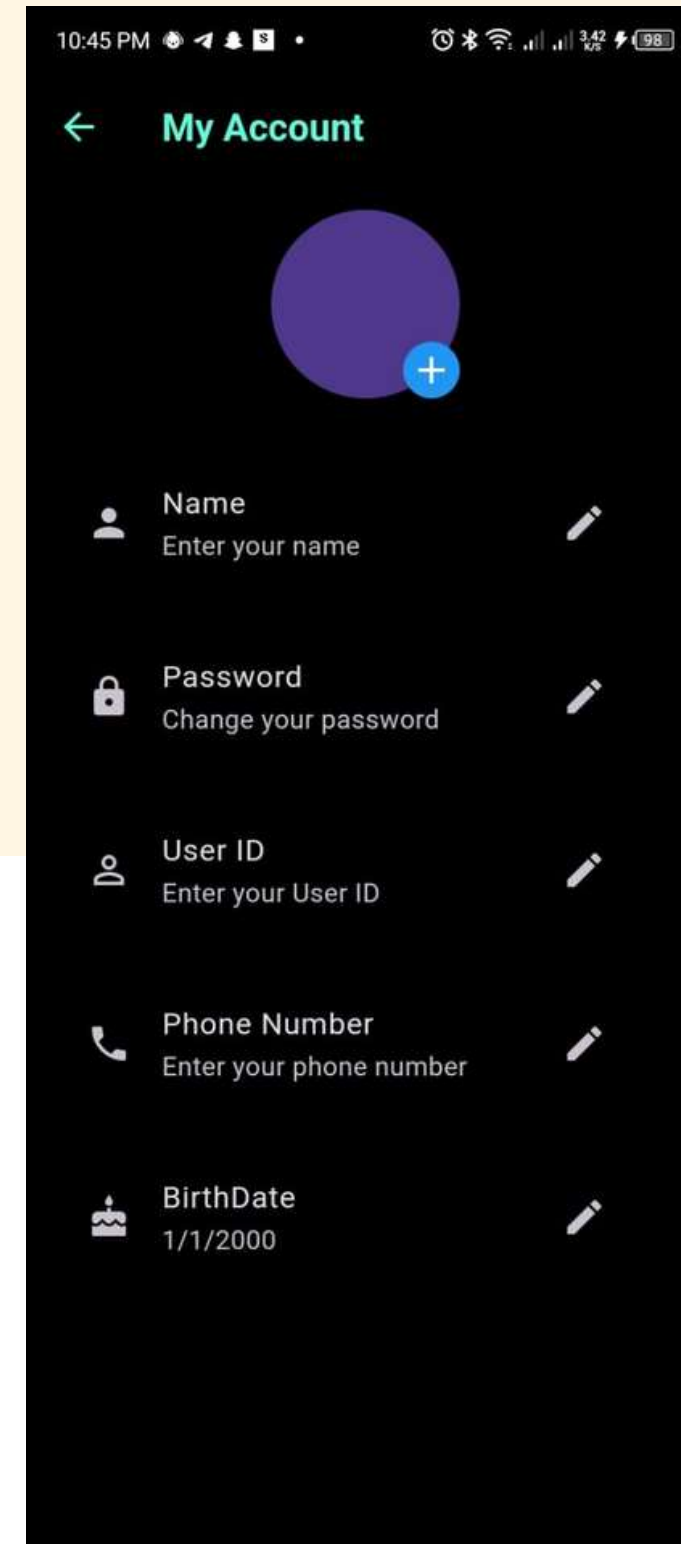
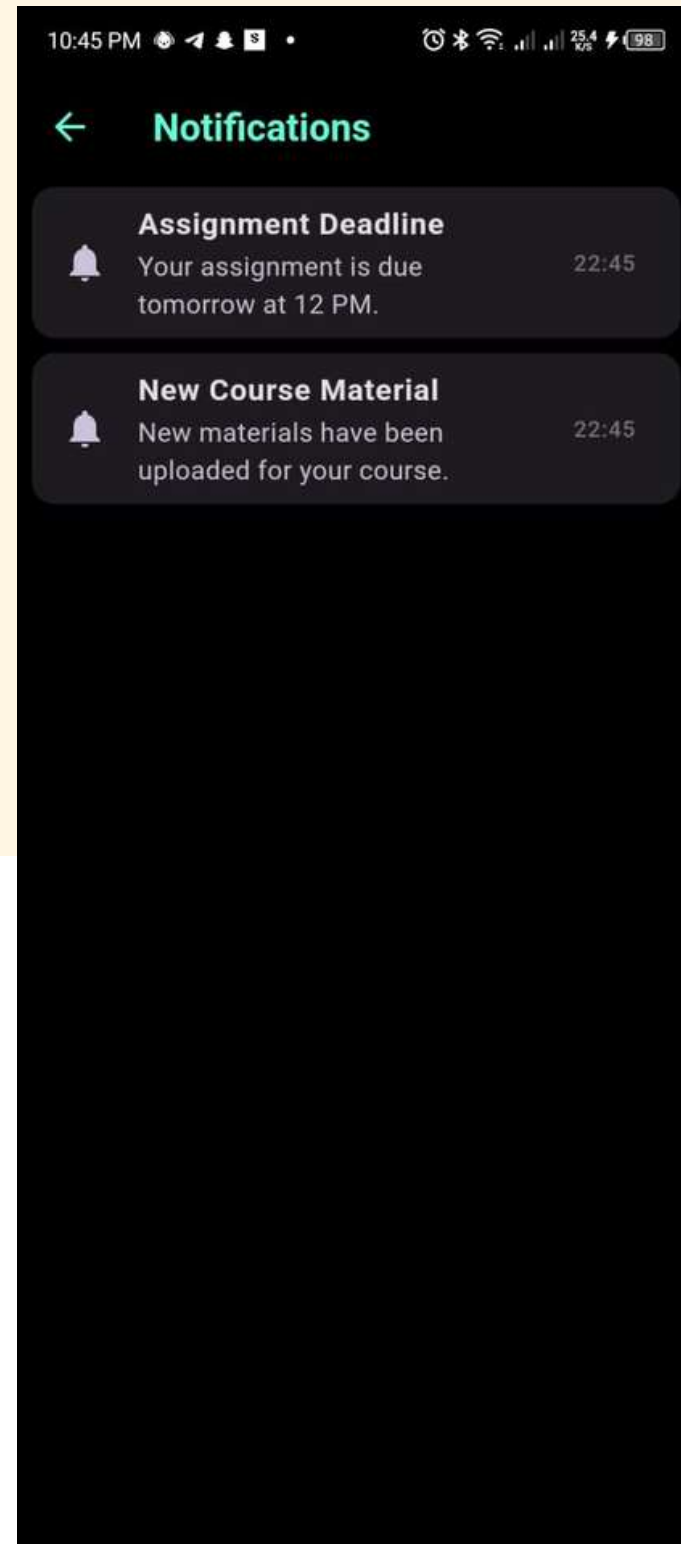
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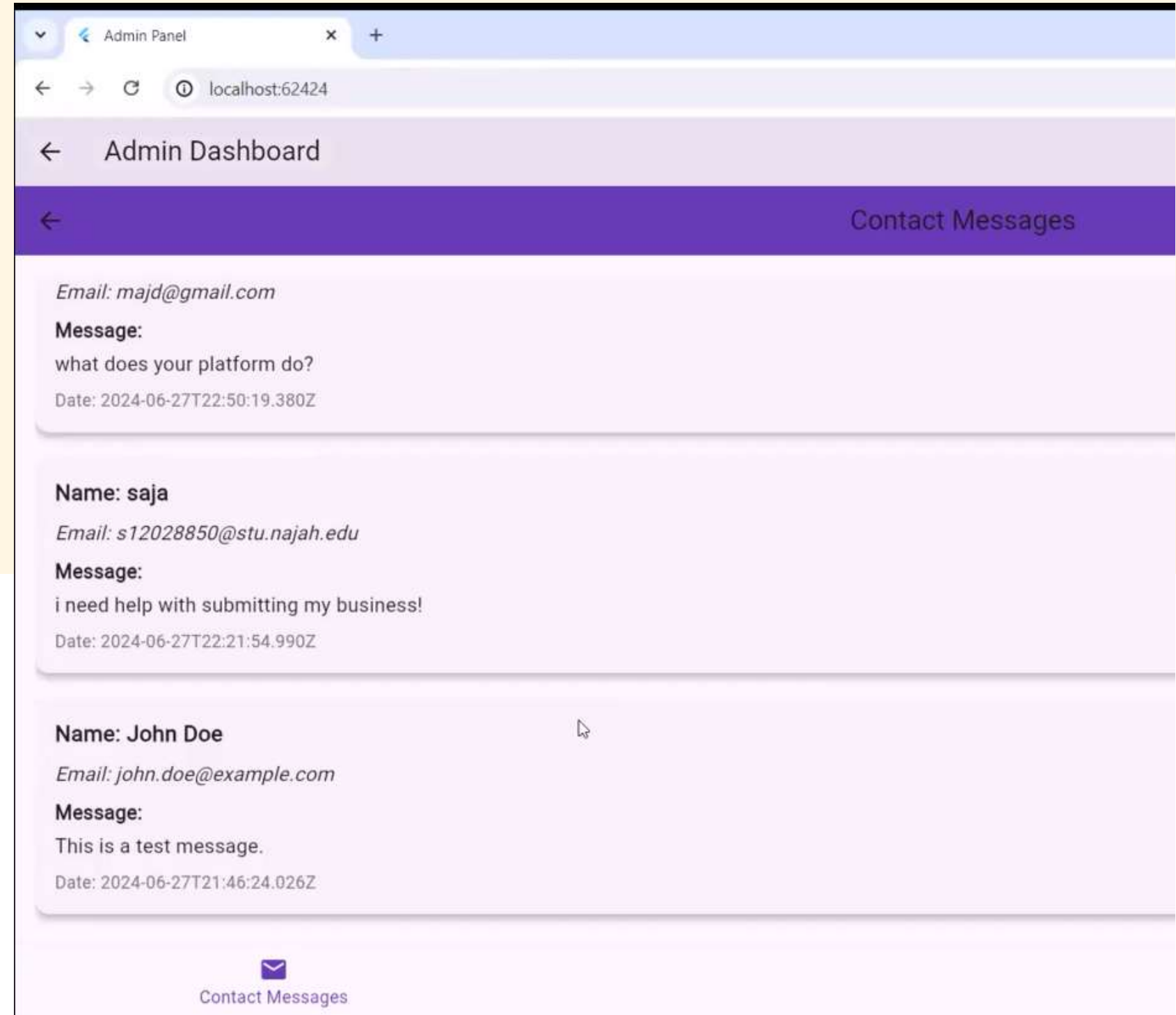
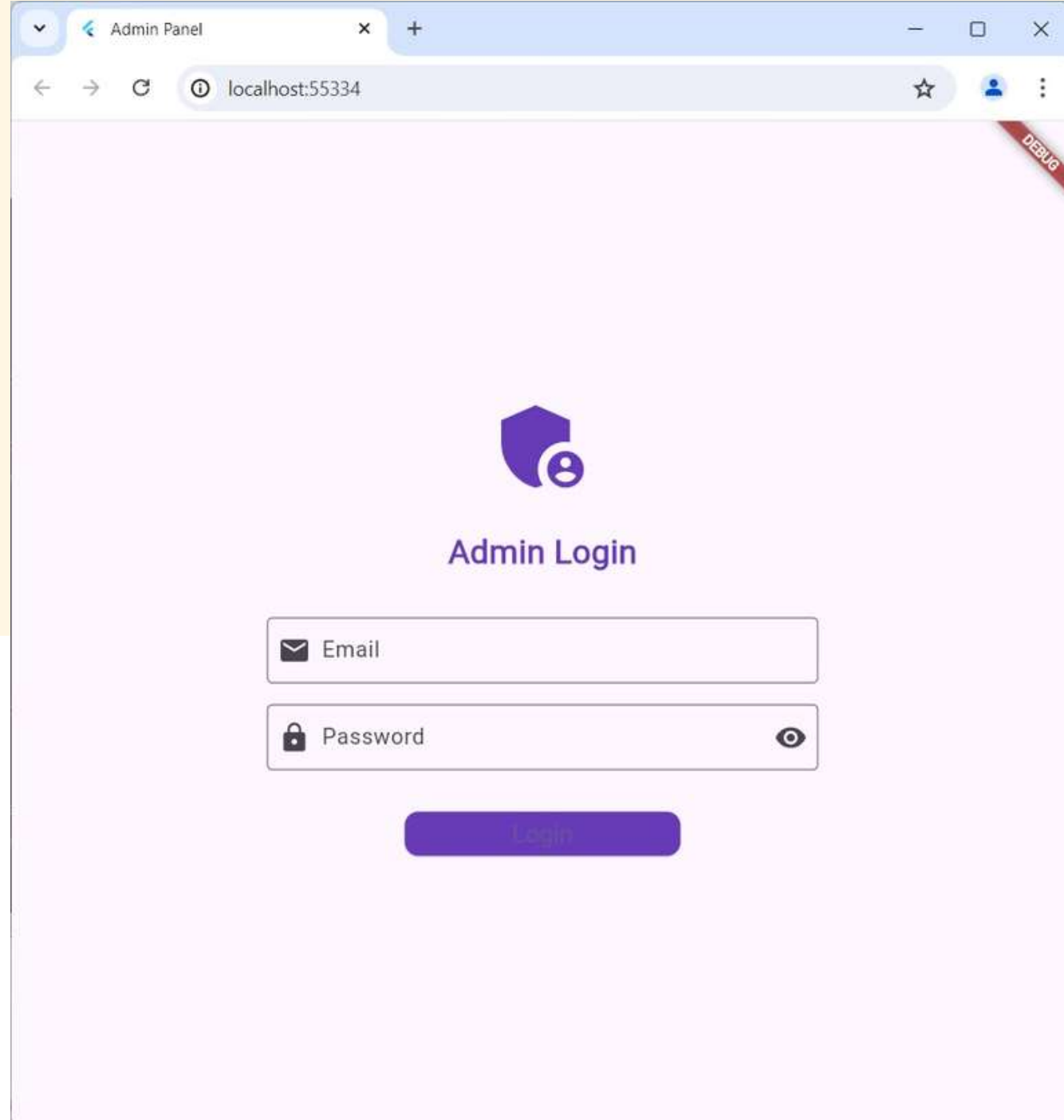
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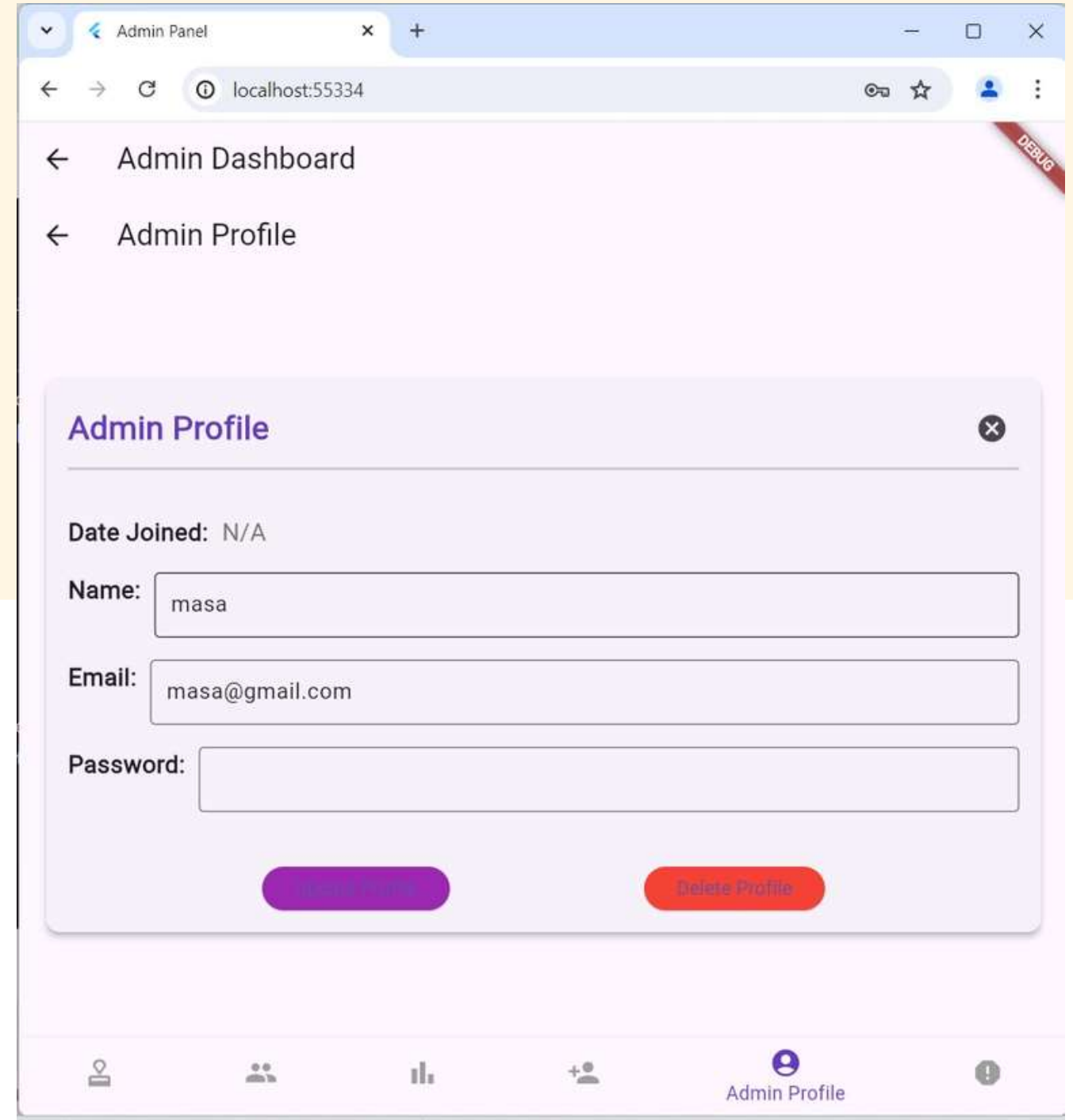
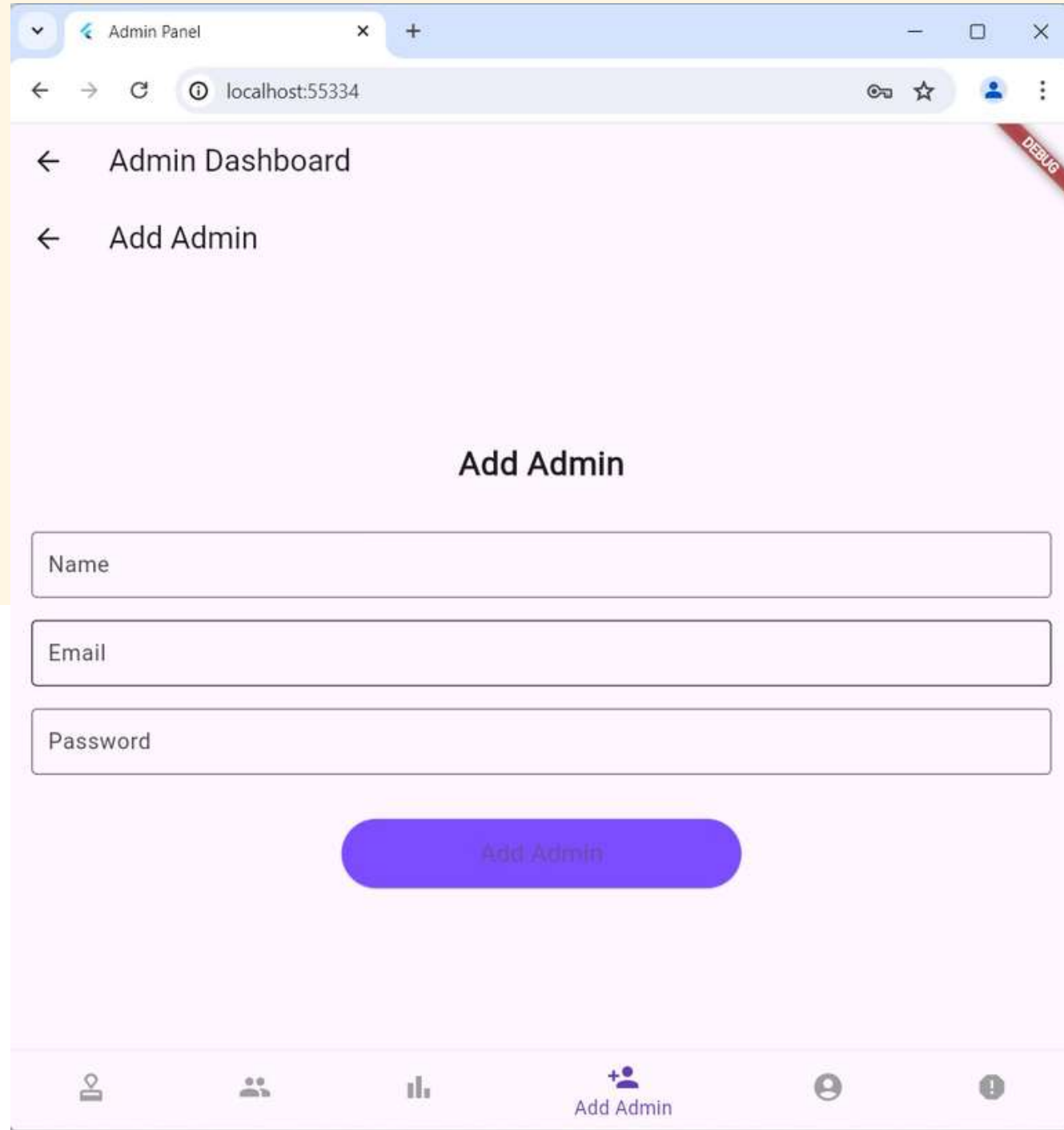
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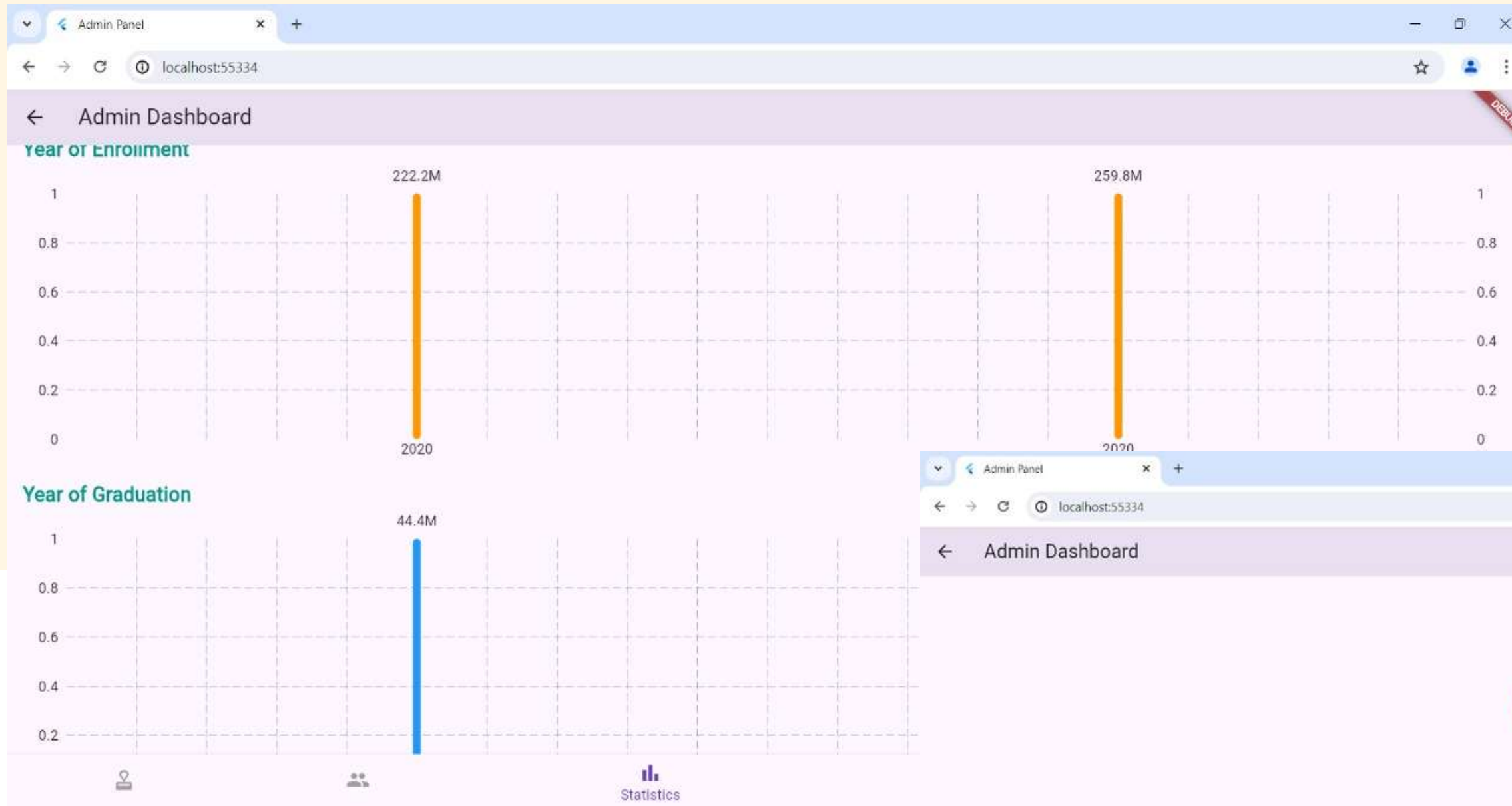
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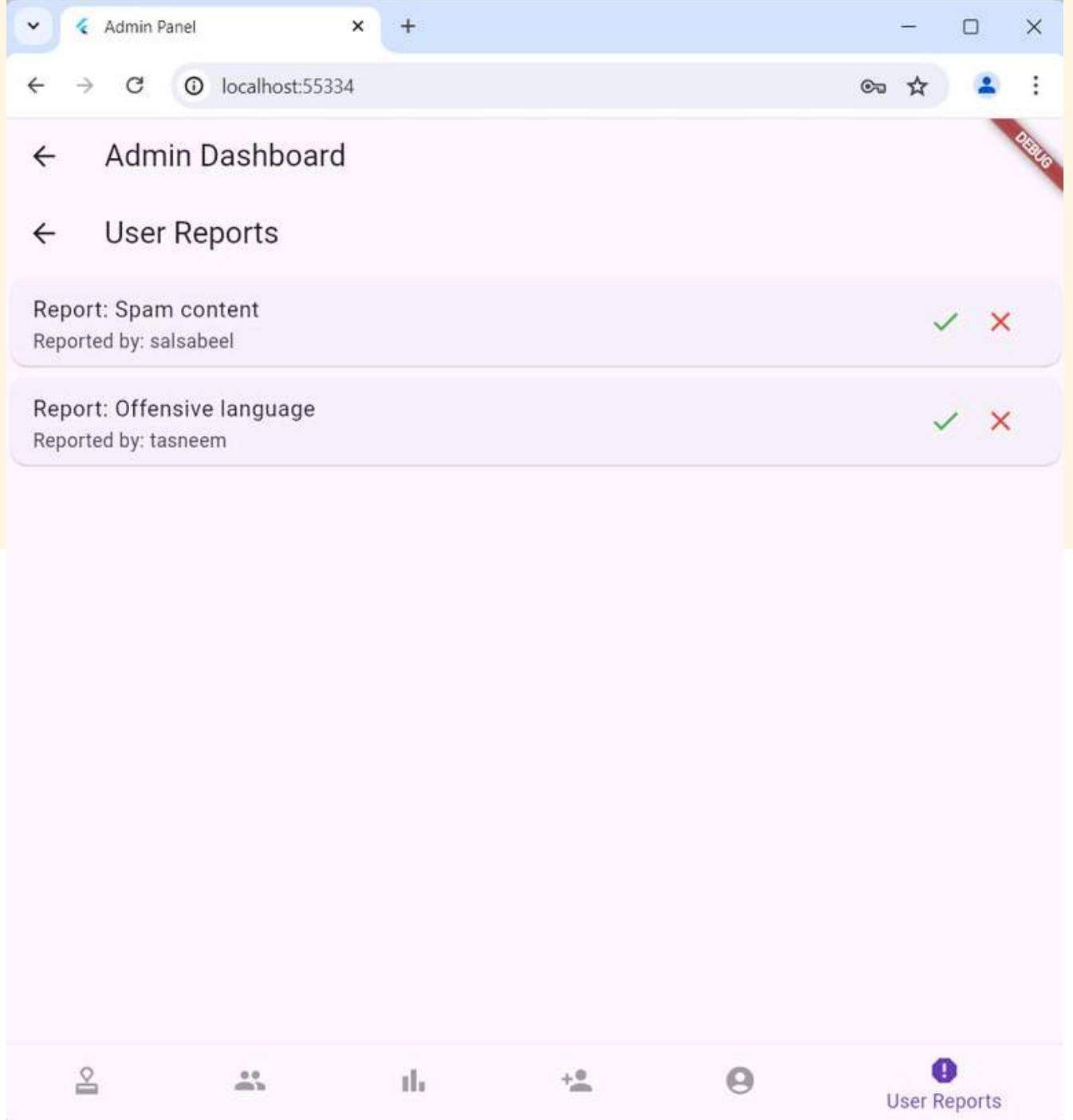
Create











Results, Analysis, and Discussion

Achievements:

- Comprehensive system meeting user needs.
- User-friendly for both web and mobile versions.

Challenges:

- Lag and performance issues with large-scale projects.
- Compatibility problems due to diverse technologies.

Conclusion:

- TechTies effectively addresses housing, resource sharing, and academic collaboration.
- Promotes a productive and supportive learning environment.

Future Work

Directions for Development:

- Create native iOS and Android applications.
- Incorporate AI for personalized user experiences.
- Enhance community tools with forums and real-time chat.
- Expand multilingual capabilities and accessibility features.
- Implement advanced analytics for user progress tracking.

ACKNOWLEDGMENTS

Thanks to:

Allah for guidance and resources.

Supervisor for support and guidance.

Family and friends for unwavering support.



Q&A Session

