



**VIVEKANANDA EDUCATIONAL SOCIETY  
INSTITUTE OF TECHNOLOGY  
INFT DEPT**



**VESLUMNI**

BY  
TEJASWI KOUL  
D15 B 31



UNDER THE GUIDANCE OF  
-DR.RAVITA MISHRA

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# INTRODUCTION

- VESLUMNI IS YOUR DEDICATED HUB FOR CONNECTING WITH FELLOW VESIT ALUMNI, PROVIDING A VIRTUAL MEETING PLACE WHERE YOU CAN SHARE UPDATES, ENGAGE IN DISCUSSIONS, AND STAY CONNECTED WITH OUR VIBRANT COMMUNITY.
- WITH FEATURES LIKE POSTING UPDATES, VIEWING NEWS FEEDS, AND STAYING INFORMED ABOUT EVENTS AND PLACEMENTS, VESLUMNI IS YOUR GO-TO FOR ALUMNI CONNECTIONS AND RELIVING COLLEGE MEMORIES.

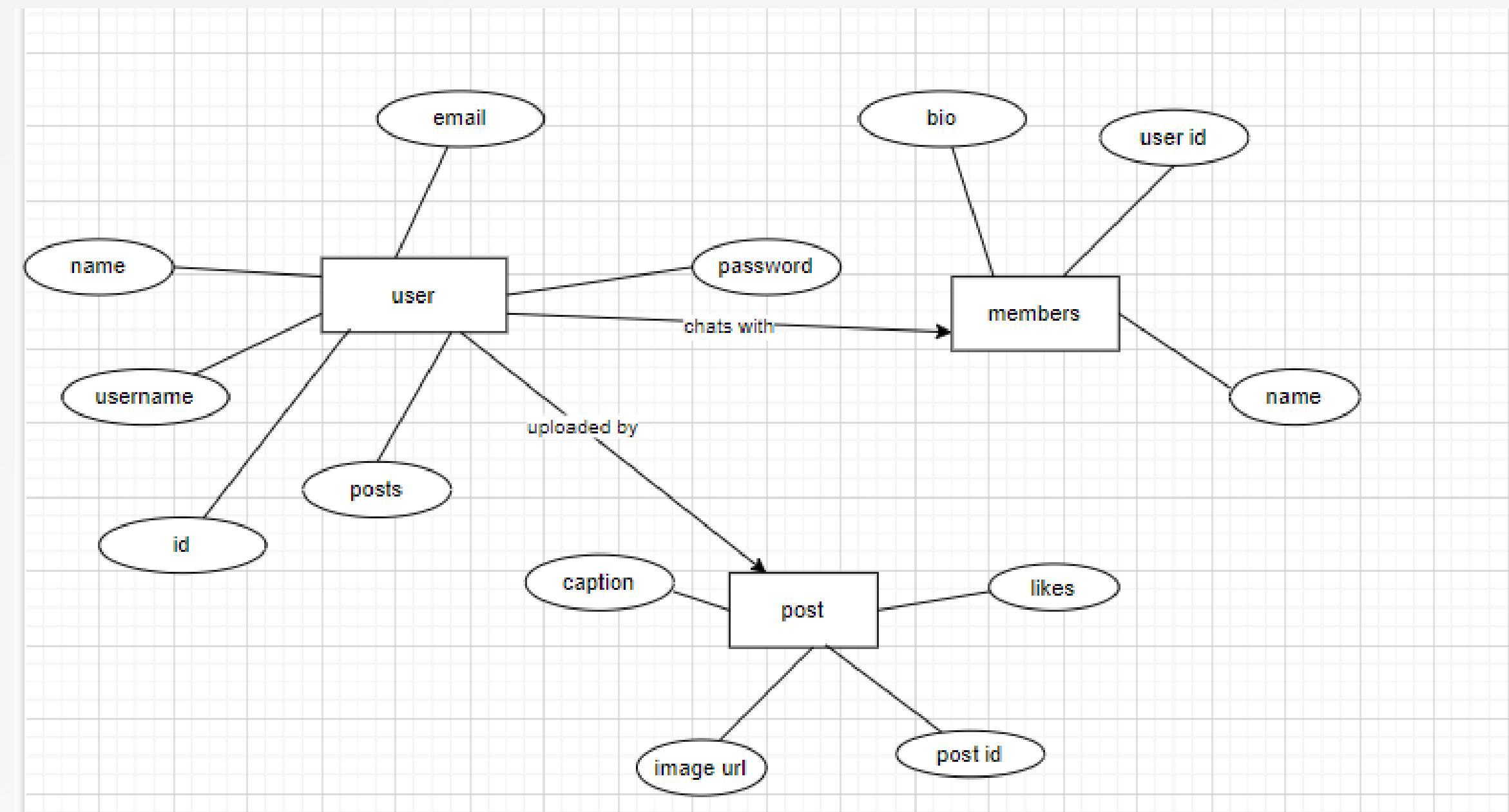
# PROBLEM STATEMENT

- VESIT ALUMNI LACK A CENTRALIZED PLATFORM FOR EFFECTIVE COMMUNICATION AND ENGAGEMENT. EXISTING METHODS, LIKE SCATTERED SOCIAL MEDIA GROUPS AND EMAIL CHAINS, HINDER SEAMLESS INTERACTION.
- A DEDICATED MOBILE APP, VESLUMNI, AIMS TO ADDRESS THIS GAP BY OFFERING A USER-FRIENDLY SOLUTION THAT PROMOTES SEAMLESS INTERACTION, UPDATE SHARING, AND COMMUNITY ENGAGEMENT.

# PROJECT OBJECTIVES

- FACILITATE ALUMNI CONNECTIONS, FOSTERING A VIBRANT COMMUNITY.
- ENABLE SEAMLESS SHARING OF UPDATES AND ACHIEVEMENTS.
- PERSONALIZE NEWS FEED FOR INFORMED COMMUNITY ENGAGEMENT.
- IMPLEMENT EFFORTLESS CHATTING FUNCTIONALITY FOR COMMUNICATION.
- PROVIDE TIMELY UPDATES ON COLLEGE EVENTS AND PLACEMENTS.

# ER DIAGRAM



# SOFTWARE REQUIREMENTS

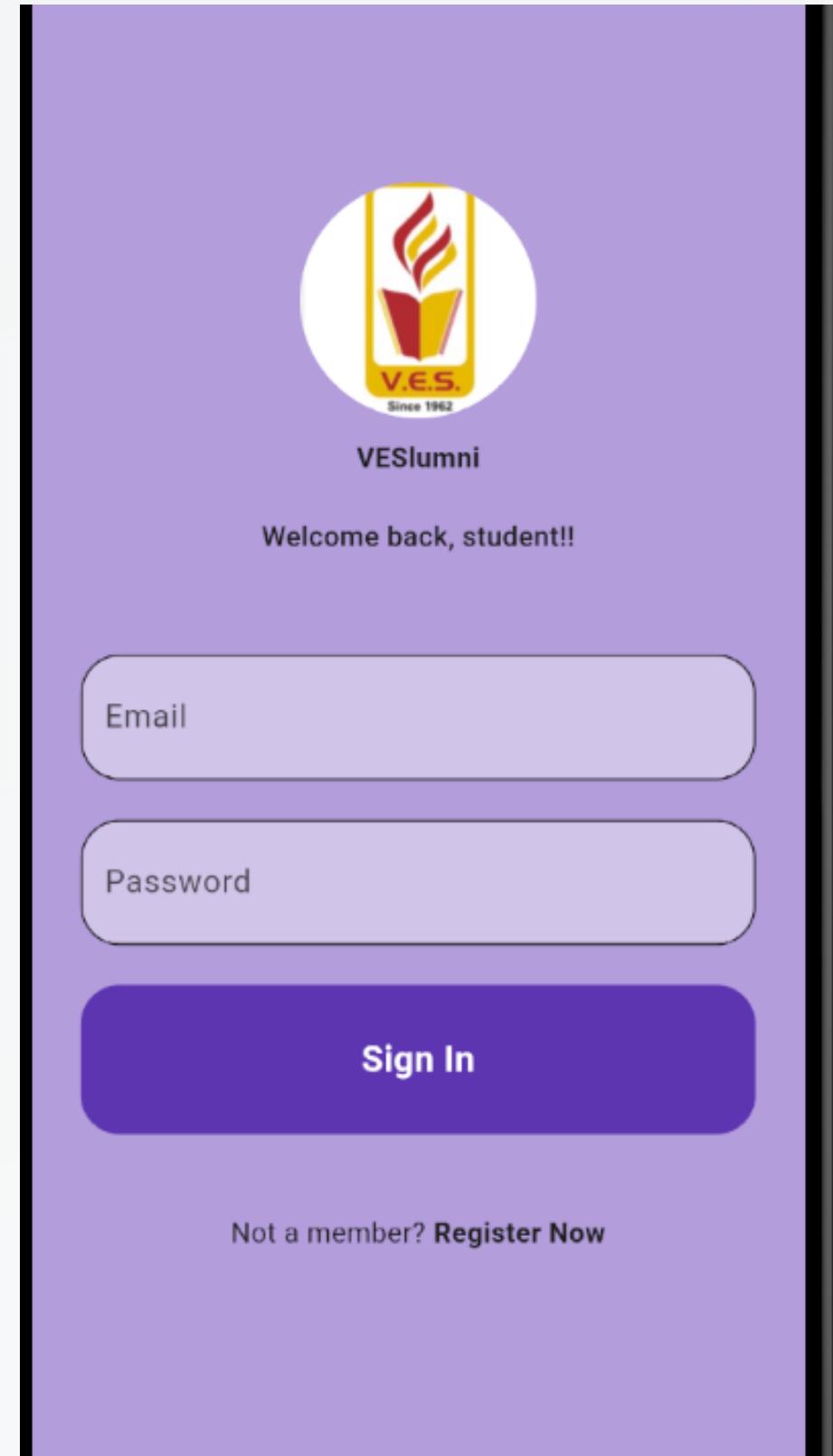
- FLUTTER SDK
- DART PROGRAMMING LANGUAGE
- ANDROID STUDIO IDE
- FIREBASE FOR BACKEND SERVICES
- GIT FOR VERSION CONTROL MANAGEMENT

# HARDWARE REQUIREMENTS

- Processor: Intel Core i5
- RAM: 8 GB
- 10GB Storage
- Stable internet connection
- Mobile Devices
- Screen Resolution

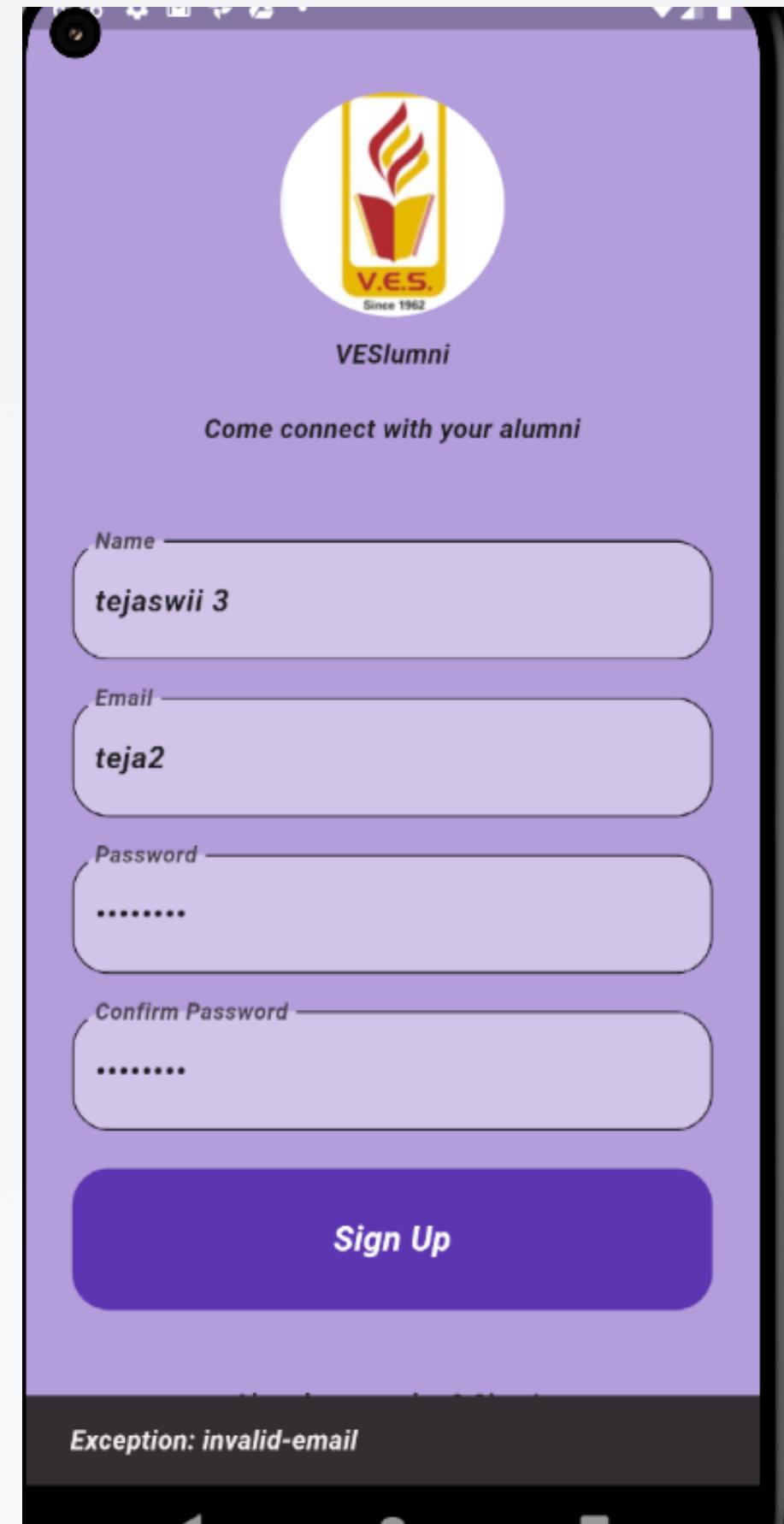
# LOGIN PAGE

- User-friendly interface with fields for email and password.
- Efficient authentication mechanisms with error feedback using a snack bar.
- Option to navigate to the signup page for new users.



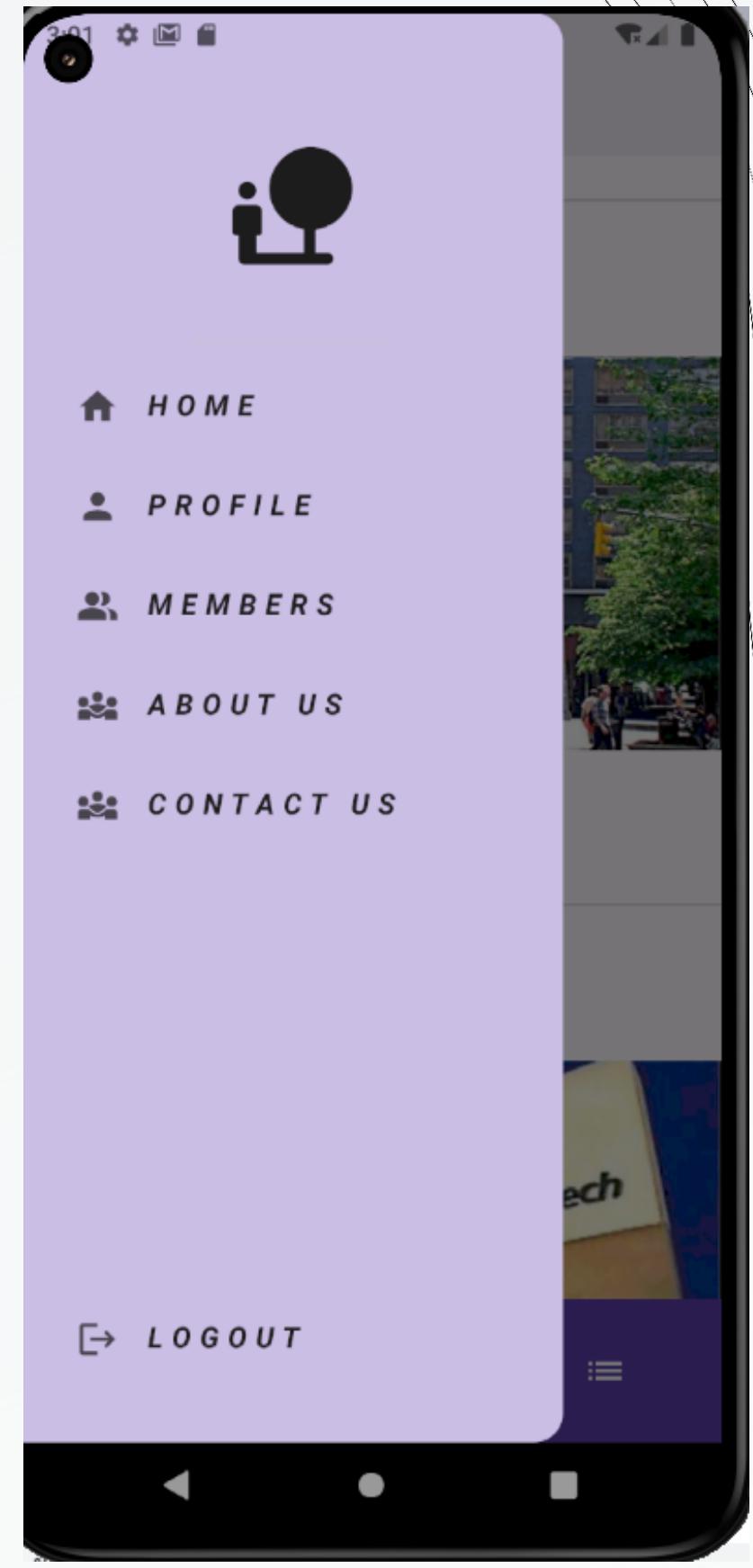
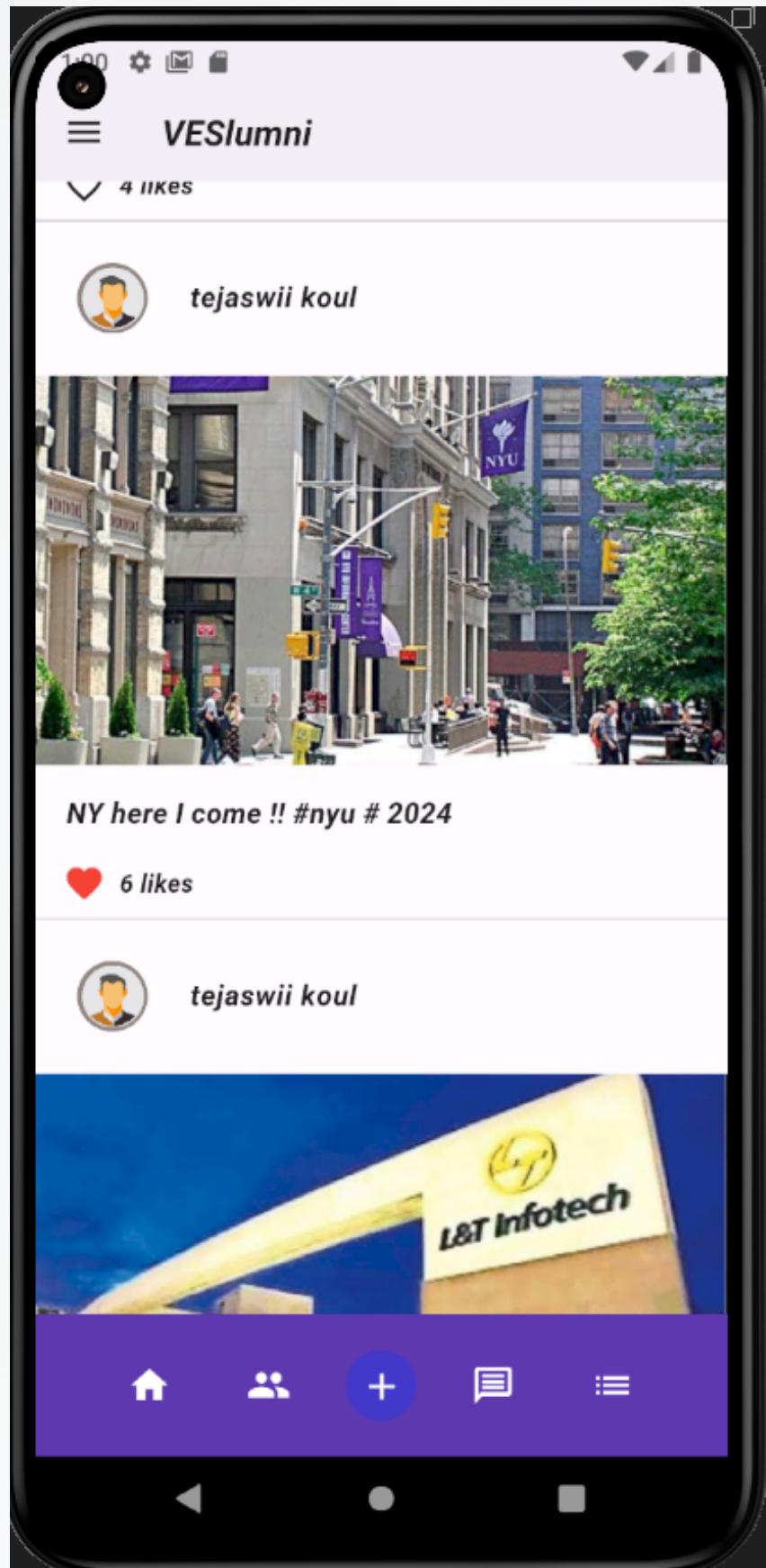
# SIGN UP PAGE

- Intuitive design with fields for name, username, email, and password.
- Efficient authentication mechanisms with error feedback using a snack bar.
- Option to navigate back to the login page for existing users.



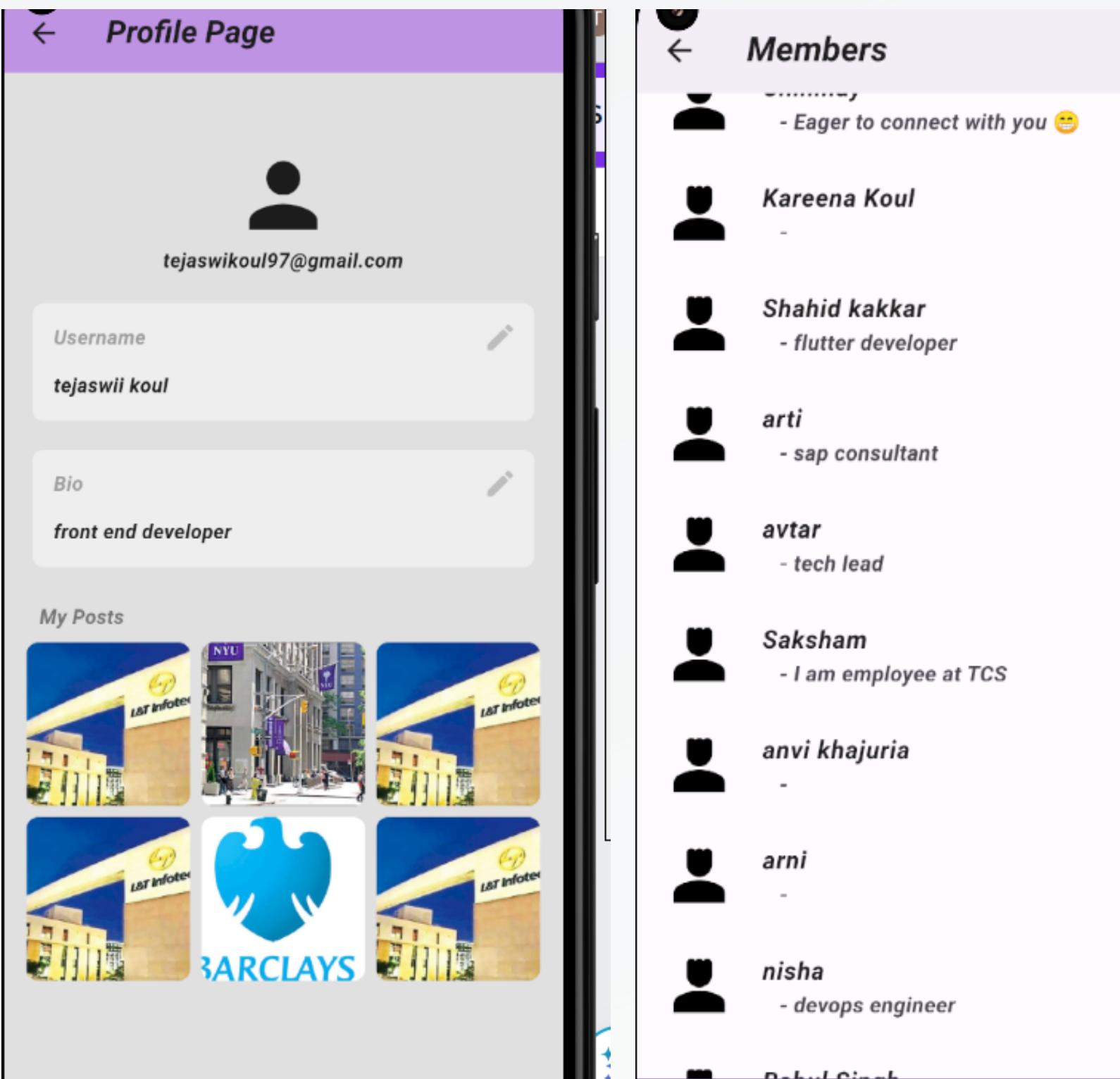
# HOME PAGE

- Displays posts with profile , usernames, captions, and likes.
- Drawer bar with options: Home, Profile, Members, About Us, Contact Us, Logout.
- Buttons for navigating to different sections: Home, Members List, Post Page, Chat, More.



# PROFILE PAGE & MEMBERS PAGE

- Allows alumni to change their username and bio.
- Displays all of the user's posted posts below.
- Option to return to the home page.
- Displays a list of signed-up alumni along with their bios.
- Provides a platform for alumni to connect with each other.



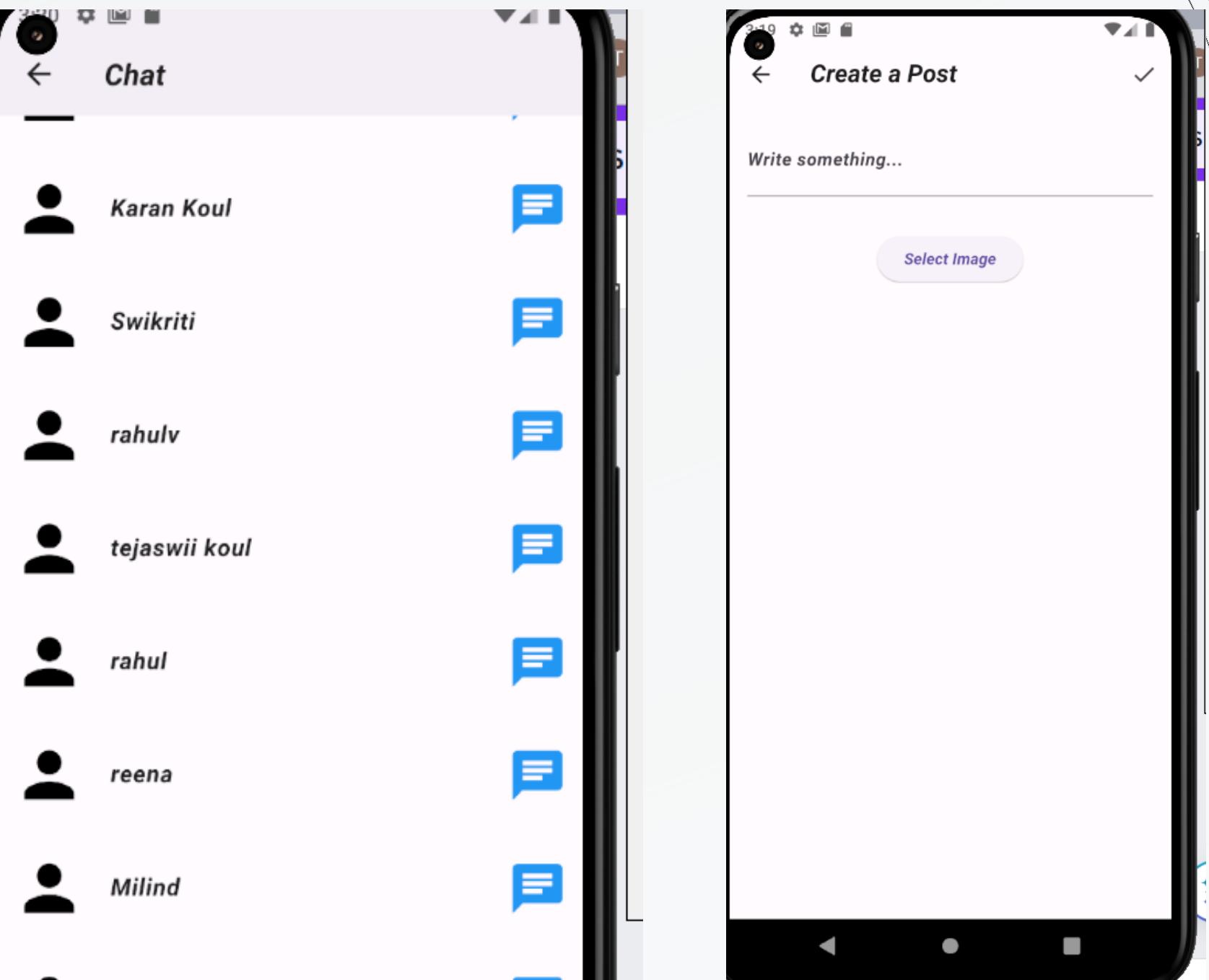
# POST PAGE & CHATLIST PAGE

## Post Page:

- Allows users to create new posts by adding captions and selecting images from storage.
- Provides options for posting and navigating back to the home page.

## Chat Page:

- Displays a list of members available for chat.
- Enables users to send messages and engage in real-time conversations.



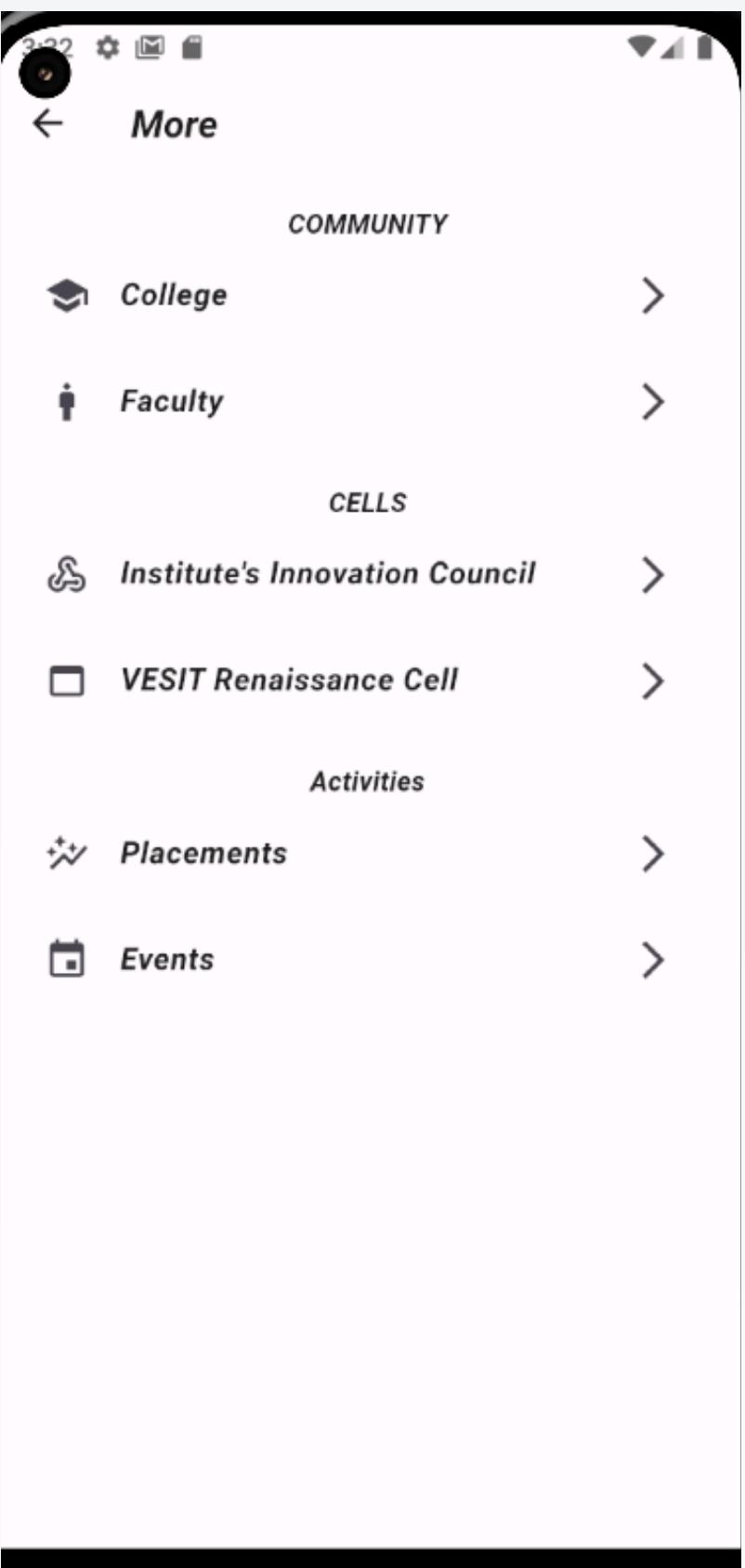
# CHAT SCREEN PAGE

- Provides a text input field for typing messages.
- Allows users to send messages and engage in real-time conversations.
- Supports message threading for organized communication.



# MORE PAGE

- Offers additional options such as links to the college website, placement statistics, current events, and information about college cells/clubs.
- Provides access to relevant resources and information for alumni.

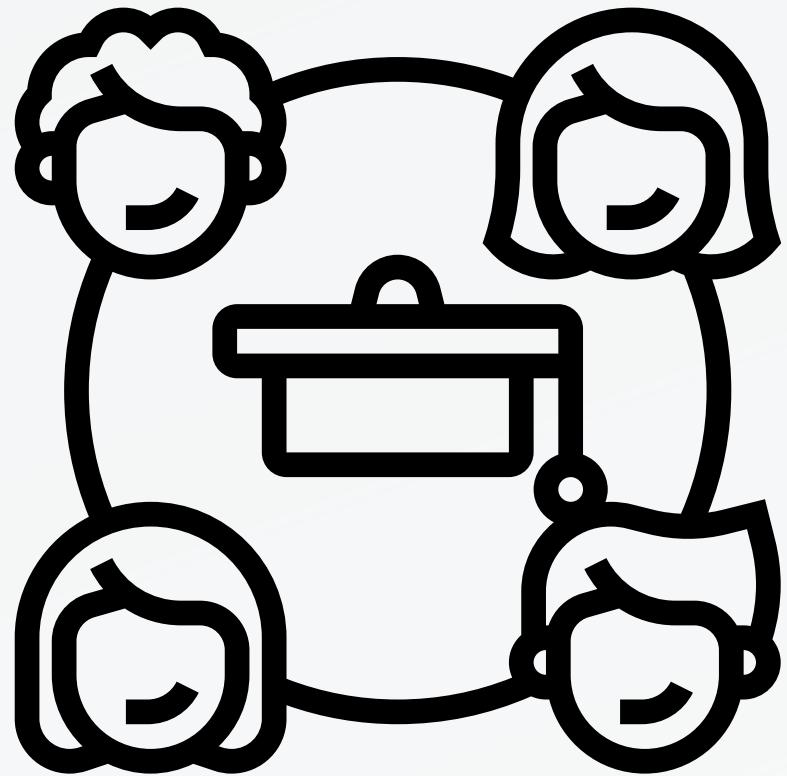


# LITERATURE SURVEY

Author	Title	link
Sonal Sawant , Pooja Jamdhade	App for alumni connect	<a href="https://www.irjet.net/archives/V8/i5/IRJET-V8I5435.pdf">https://www.irjet.net/archives/V8/i5/IRJET-V8I5435.pdf</a>
Sanika Bhandare, Sonam Jeughale, Shivani More	Android app for alumni management	<a href="https://www.ijirmps.org/papers/2023/3/230140.pdf">https://www.ijirmps.org/papers/2023/3/230140.pdf</a>
P.Aruna, M.Sharmila Begum and D.Maghesh Kumar	Alumni Smart Connect	<a href="https://www.ijtrd.com/papers/IJTRD4230.pdf">https://www.ijtrd.com/papers/IJTRD4230.pdf</a>

# CONCLUSION

The creation of the VESlumni app marks a remarkable milestone in harnessing modern technology to tackle alumni networking challenges effectively. Through the utilization of Flutter and integration with Firebase services, this project showcases the feasibility of developing a versatile and feature-rich networking platform.



# REFERENCES

- Singh, Shrestha. (2016). "Revolutionizing Alumni Engagement through Innovative Technology." *Alumnus Quarterly Review*.
- Vyagar, Anatha. (2018). "Navigating Alumni Networks: Strategies for Effective Networking." *Alumni Insights Journal*.
- kansana,keshav. (2021). "The Evolution of Alumni Platforms: Trends and Future Directions"

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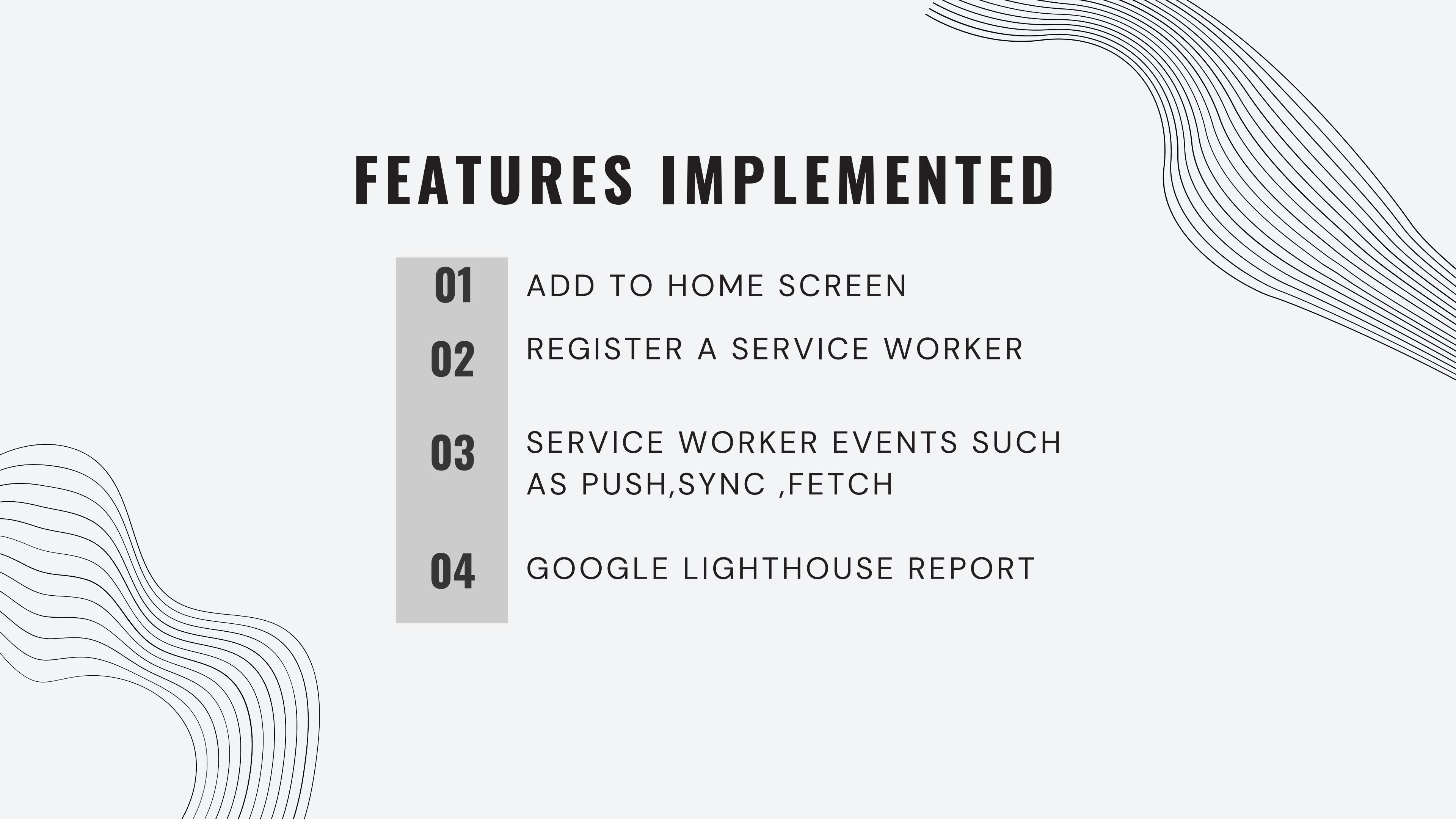


# **ECOMMERCE PWA**

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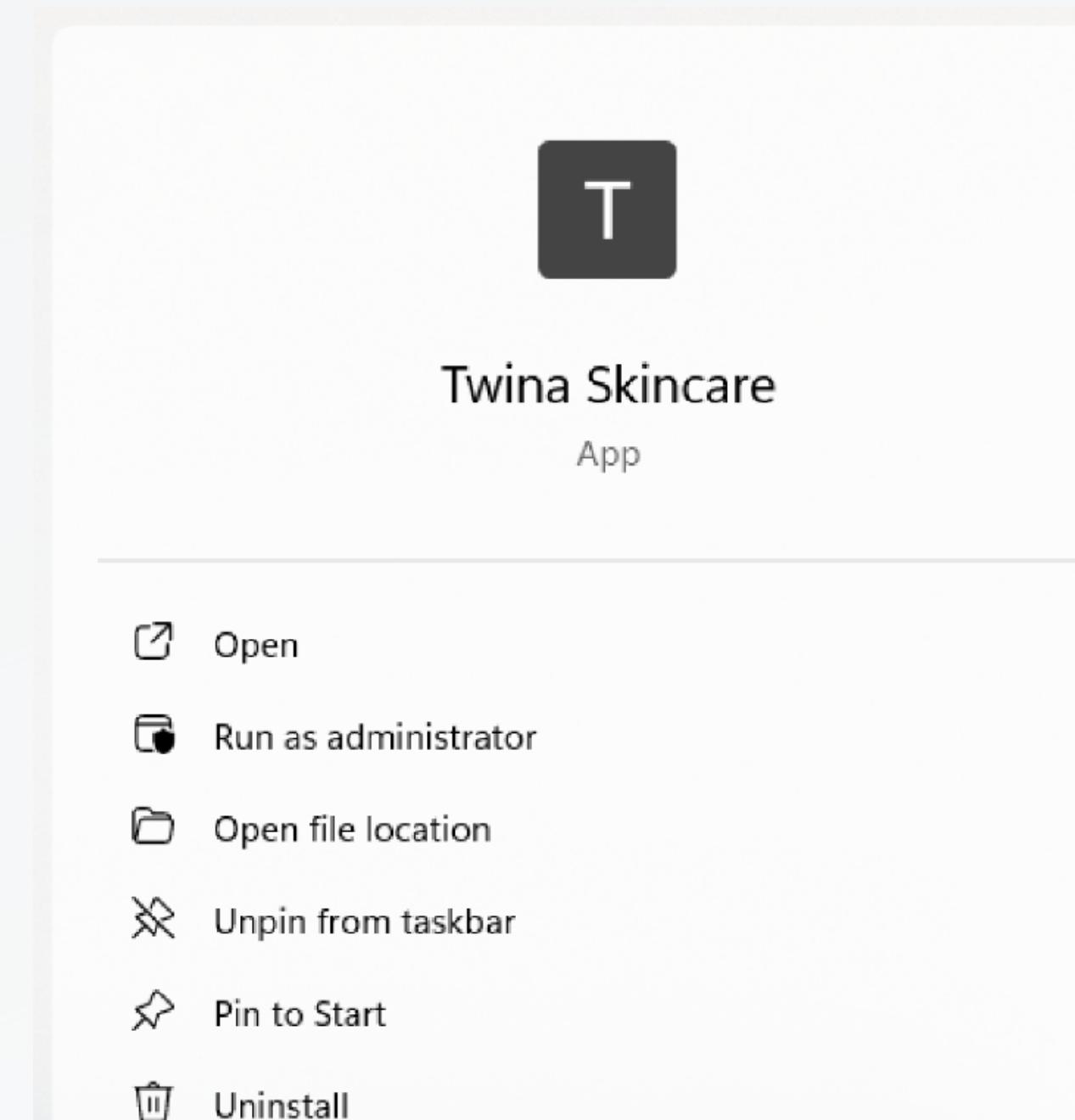
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# FEATURES IMPLEMENTED

- 
- 01** ADD TO HOME SCREEN
  - 02** REGISTER A SERVICE WORKER
  - 03** SERVICE WORKER EVENTS SUCH AS PUSH,SYNC ,FETCH
  - 04** GOOGLE LIGHTHOUSE REPORT

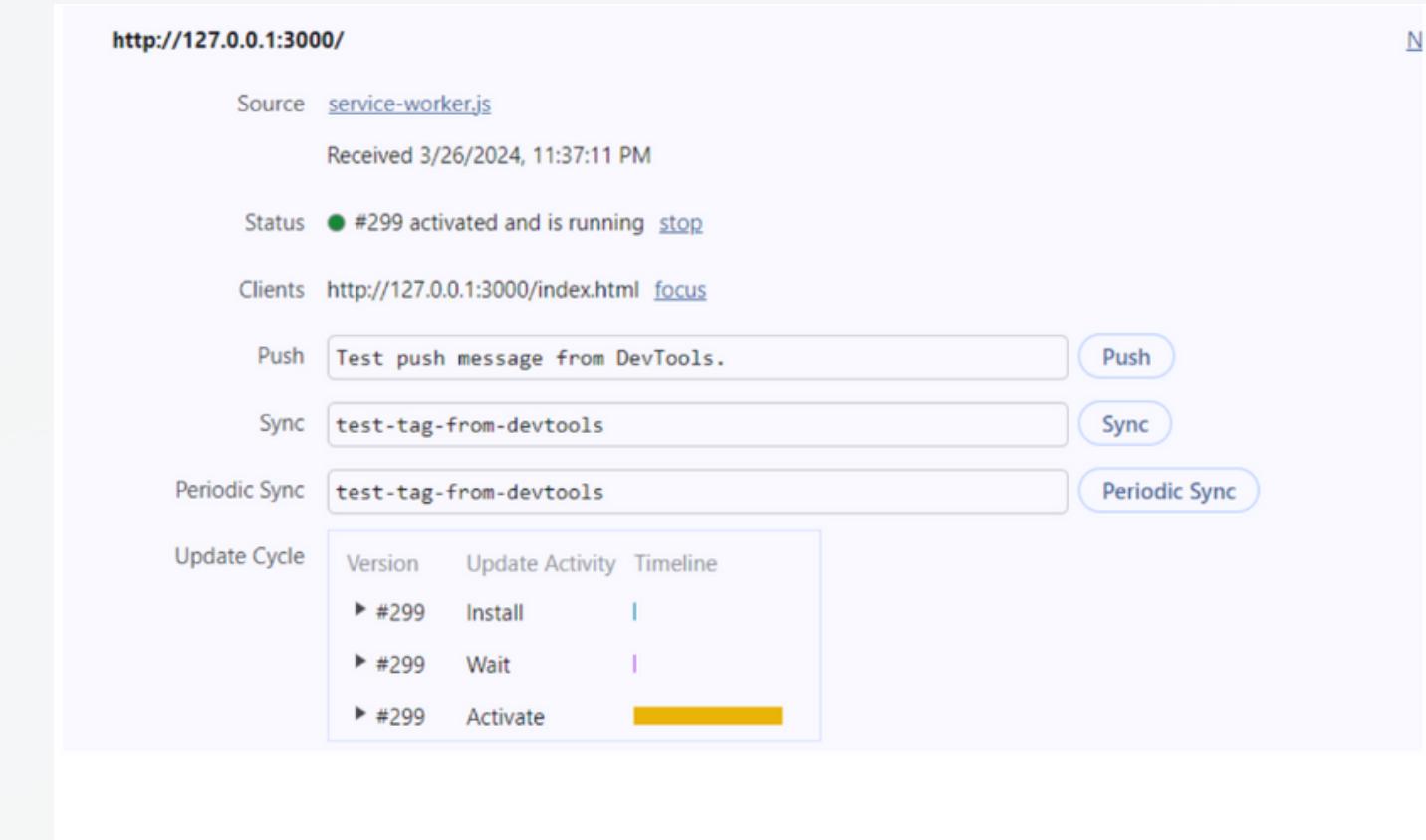
# HOMESCREEN INSTALLATION

- Develop manifest.json with app metadata, including name, icons, and theme colors, defining PWA appearance and behavior.
- Utilize service.js to deploy a service worker enabling installation on the desktop homescreen.



# SERVICE WORKER REGISTRATION

- Register service worker in app.js to enable offline functionality and improve caching for enhanced user experience.
- Utilize service worker registration to optimize site performance for the skincare eCommerce platform

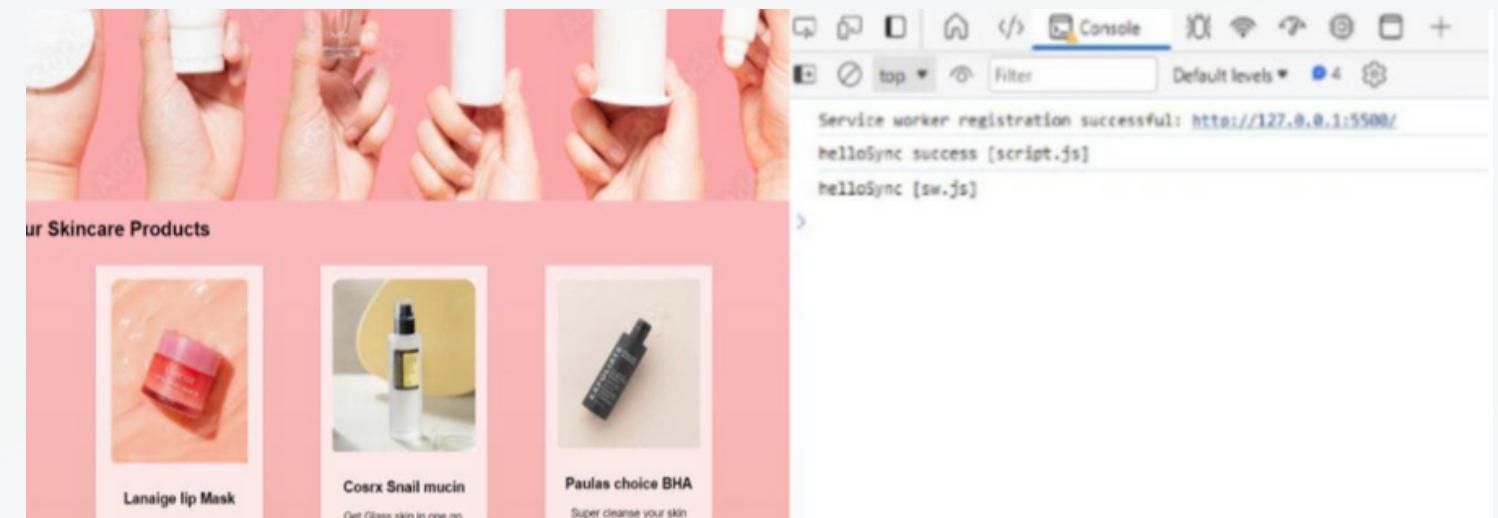


The screenshot shows a skincare eCommerce website with a pink header featuring the logo "Twinia Skincare" and navigation links for Cart, Wishlist, Login, and Signup. Below the header, there's a banner titled "Our Skincare Products" showing various skincare products. The main content area displays three product cards: "Lanolin Lip Mask", "Coconut Snail mask", and "Paulas choice BHA". At the bottom, a browser developer tools console is open, showing the following logs:

```
index.html:219
index.html:112
```

# PUSH SYNC AND FETCH EVENTS

- Implement push sync and fetch events in service.js to synchronize data and fetch updates in real-time for enhanced user engagement.
- Utilize push sync and fetch events to enable seamless data synchronization a

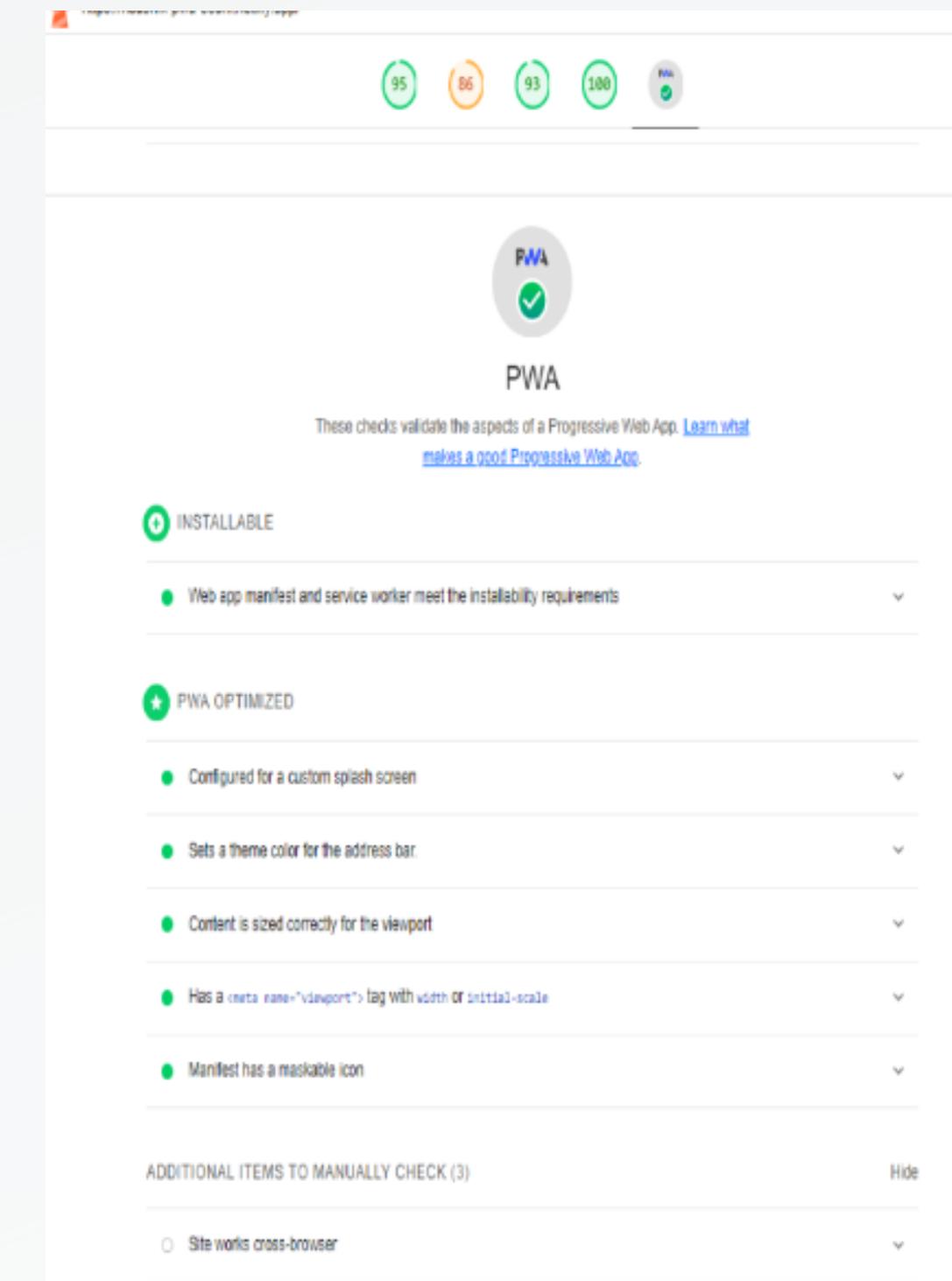


A screenshot of the Chrome DevTools Storage panel. On the left, there's a sidebar with "Storage" expanded, showing options like Local storage, Session storage, IndexedDB, Web SQL, Cookies, Private state store, Interest group, Shared storage, and Cache storage. The main area shows a "Clients" section for "http://127.0.0.1:5500/ focus". It includes sections for "Push", "Sync", "Periodic Sync", and "Update Cycle". The "Update Cycle" section shows a timeline with three steps: "#43 Install", "#43 Wait", and "#43 Activate". Below this, there's a "Service workers from other origins" section with a "Console" tab showing log messages about successful fetches from the network and cache. The bottom of the panel has a "Console" tab with a "Default levels" dropdown set to 4.

A screenshot of the Chrome DevTools Application panel. It shows a "Service Workers" section with a "Manifest" entry and a "Service Worker" entry. The "Service Worker" entry is highlighted and shows a "Source" of "sw.js", a "Status" of "#13234 activated and is running", and a "Clients" section for "http://localhost:5000/ focus". The "Clients" section shows a log message: "Hello from Push Message :)". Below this, there's a "Push" button with the same message. The "Sync" button is also visible. The "Storage" section shows Local Storage, Session Storage, IndexedDB, Web SQL, and Cookies. The "Cache" section shows Cache Storage and Application Cache. The "Frames" section shows a "top" frame. The top of the panel has tabs for Elements, Console, Sources, Network, Performance, Application, Security, Audits, Memory, AdBlock, and a status bar showing "Test App localhost:5000 Hello from Push Message :)".

# GOOGLE LIGHTHOUSE REPORT

- Utilize Google Lighthouse for comprehensive website auditing, providing insights into performance, accessibility, best practices, and SEO.
- Leverage Google Lighthouse to assess and optimize the skincare eCommerce site for improved performance, accessibility, and search engine visibility.



# CONCLUSION

*In summary, harnessing PWA features like manifest.json and service workers, combined with Google Lighthouse analysis, optimizes the skincare eCommerce site for enhanced performance and user engagement. Ultimately, this approach delivers a dynamic and immersive shopping experience, driving success for the business.*

