

WE Flutter Internship

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About The Company :

WE Telecom Egypt is the first integrated telecom operator in Egypt, providing a wide range of services, including mobile, fixed-line, internet, and IT solutions.

The company is also actively involved in talent development through specialized training programs, such as the **Flutter Mobile Application Diploma**, in collaboration with the **Information Technology Institute (ITI)**.

This initiative aims to equip students and graduates with hands-on experience in modern technologies, preparing them for careers in software development and the broader IT industry.



مطاع التدريب
والتمكينا

Internship Responsibilities:

During my internship at **WE Telecom Egypt**, I was responsible for a variety of tasks that helped me gain hands-on experience in **Flutter** and **Dart**.

1. Learning & Implementing Flutter and Dart Concepts

- Studied **Dart programming**, covering fundamental data types, OOP principles, and advanced concepts like mixins and exception handling.
- Built **Flutter applications** from scratch, focusing on UI components, navigation, and state management.

2. Developing Mobile Applications

- Designed and developed **cross-platform mobile apps** using **Flutter**.
- Integrated **APIs** and **Firebase** for data retrieval and storage.
- Worked on **real-world projects**, including the [**EV Charging Station Finder App**](#).

3. UI/UX Design & Frontend Development

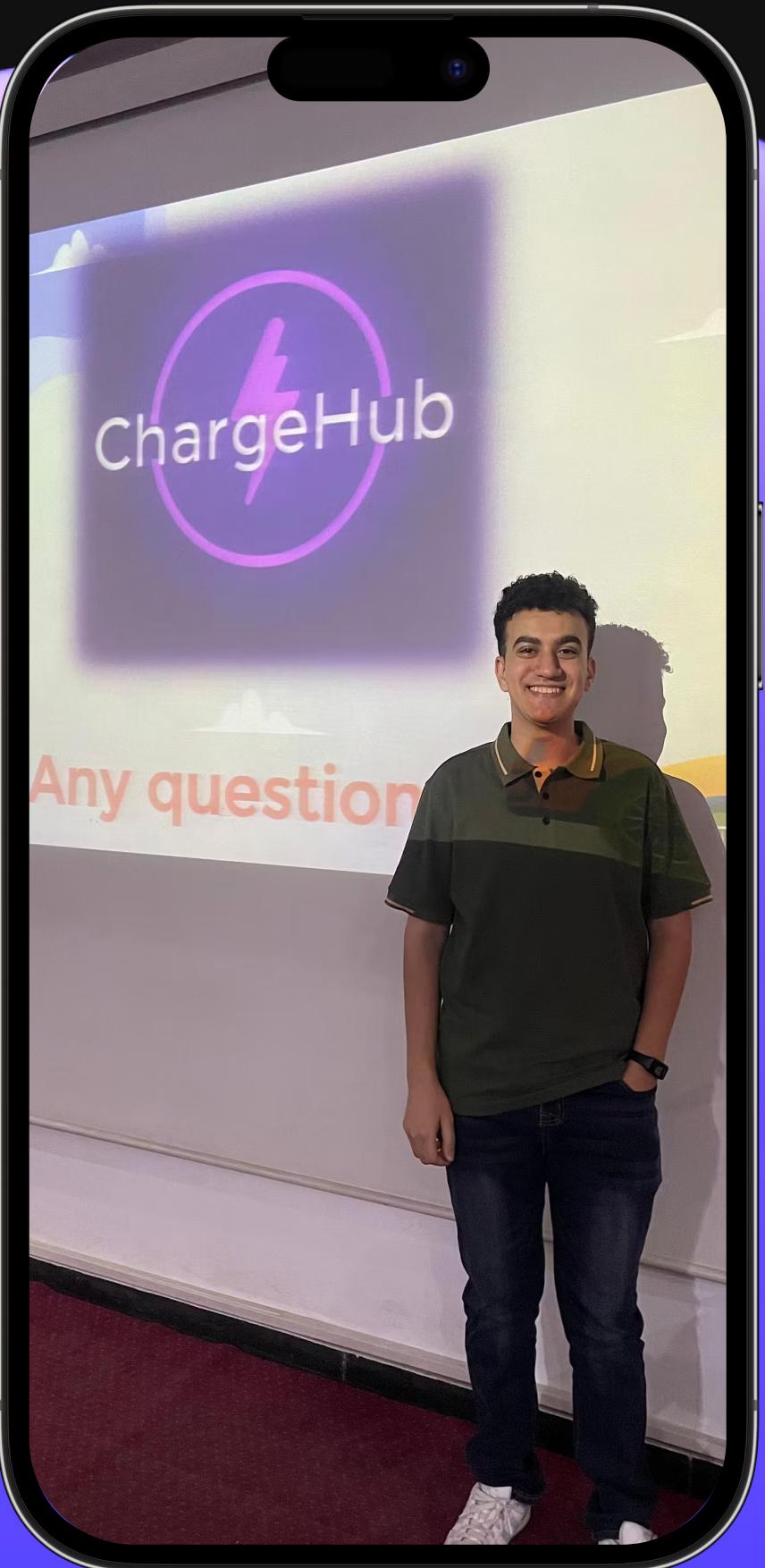
- Created **responsive UI designs** following **Material Design principles**.
- Applied **best practices** for enhancing user experience.

4. State Management & Performance Optimization

- Implemented **state management solutions** like Provider and BLoC.

5. Team Collaboration & Agile Methodology

- Participated in **team meetings, stand-ups, and code reviews**.
- Followed **Agile development methodologies**.



Internship Outcomes:

During my internship at **WE Telecom Egypt**, I gained valuable technical and professional skills that enhanced my expertise in **Flutter** and **Dart**.

1. Proficiency in Flutter & Dart

- Gained hands-on experience in **building cross-platform mobile apps**.
- Mastered key concepts such as **widgets**, **state management (BLoC & Provider)**, and **API integration**.

2. UI/UX Design & Frontend Development

- Developed **responsive and interactive user interfaces** following **Material Design** guidelines.
- Improved **design-thinking skills** to create user-friendly applications.

3. Backend Integration & API Handling

- Worked with **Firebase** for authentication and database management.
- Integrated **RESTful APIs** to fetch real-time data into mobile apps.

4. Software Engineering & Project Management

- Applied **Agile methodologies (Scrum, Sprints, Stand-ups)** in app development.
- Improved **debugging, testing, and code optimization** skills.

5. Real-World Application Development

- Successfully contributed to a **graduation project – EV Charging Station Finder App**.
- Learned **industry best practices** for mobile app development and deployment.

6. Soft Skills Development

- Improved **team collaboration and communication** by working in a professional environment.
- Gained experience in **problem-solving, critical thinking, and time management**.



Personal Growth & Lessons Learned:

During my internship at **WE Telecom Egypt**, I experienced significant personal and professional growth, enhancing both my technical abilities and soft skills.

Increased Confidence in Software Development

- Gained hands-on experience in **Flutter & Dart**, making me more confident in building full-stack mobile applications.
- Developed a problem-solving mindset to tackle technical challenges efficiently.

Time Management & Productivity

- Learned to prioritize tasks effectively and manage deadlines in a fast-paced environment.
- Balanced learning new concepts while working on a real-world project.

Teamwork & Collaboration

- Worked in a collaborative setting, engaging in team discussions, stand-ups, and code reviews.
- Learned how to communicate technical ideas clearly and receive constructive feedback.

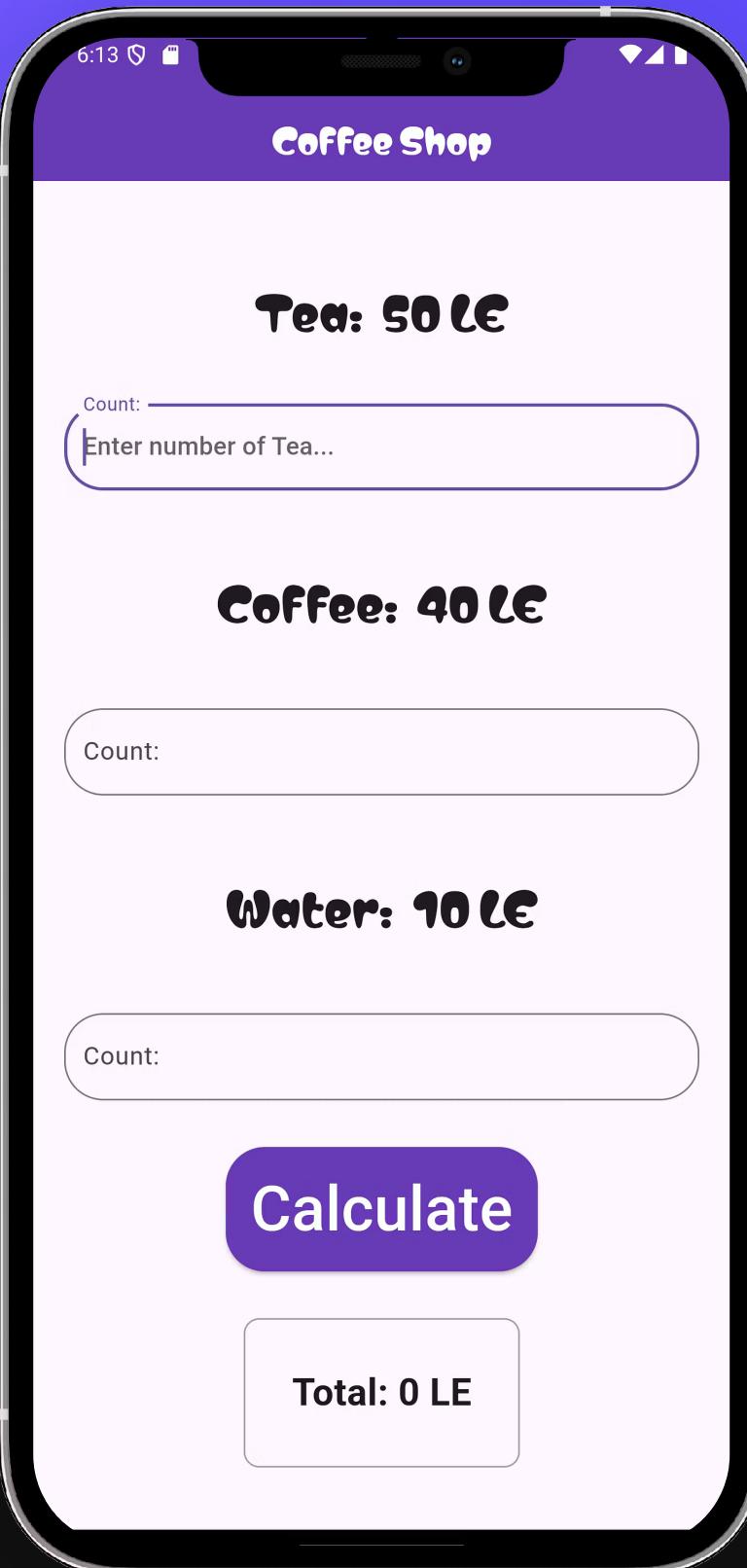
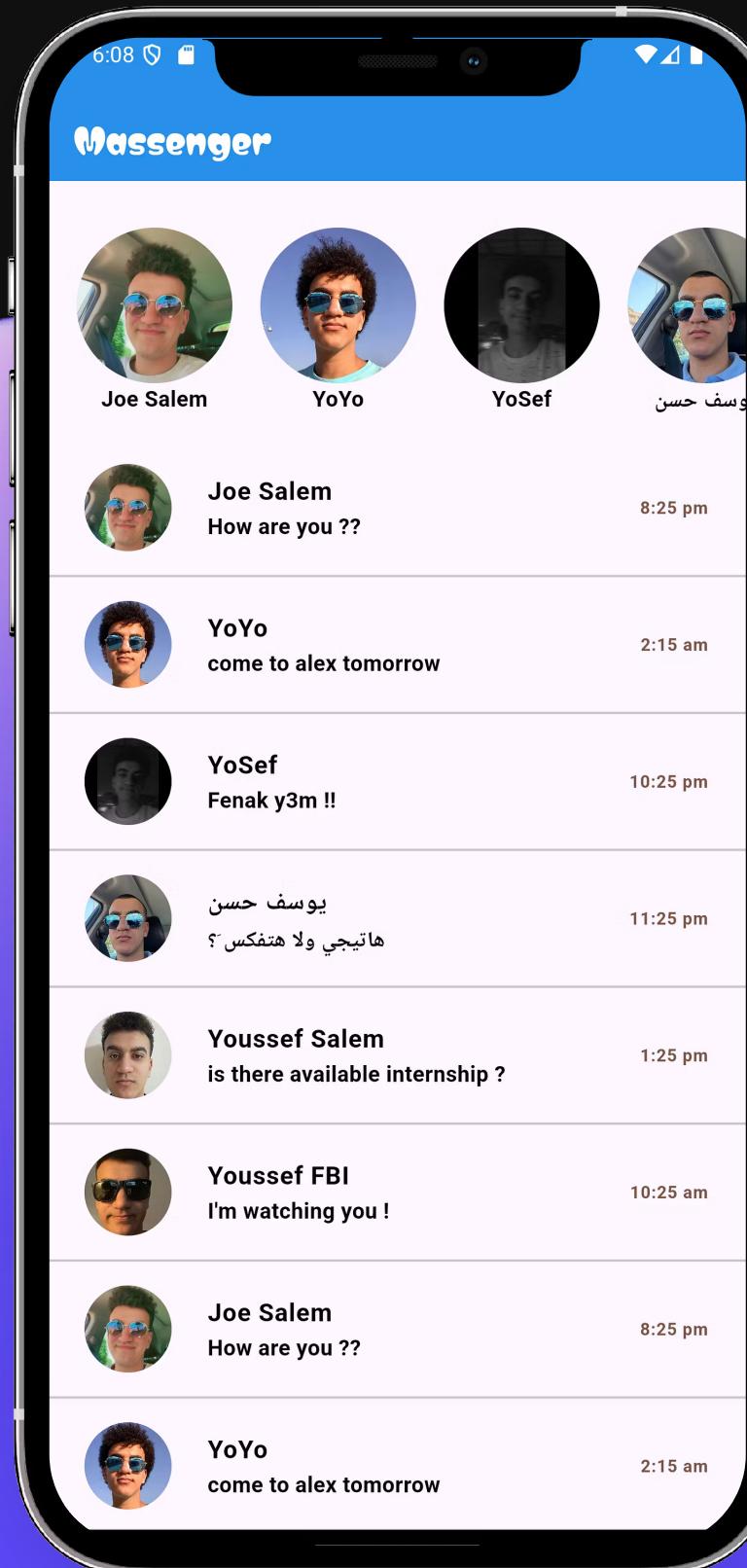
Lessons Learned

- The Importance of Writing Clean & Maintainable Code
 - Adopted best practices in coding, making applications more scalable and efficient.
- **Adaptability & Continuous Learning**
 - The field of mobile development is constantly evolving; staying updated with new frameworks and tools is crucial.
 - Learned to embrace new challenges and continuously improve my skills.
- **User Experience Matters**
 - Realized that UI/UX design plays a crucial role in application success.
 - Prioritized building user-friendly and intuitive interfaces.

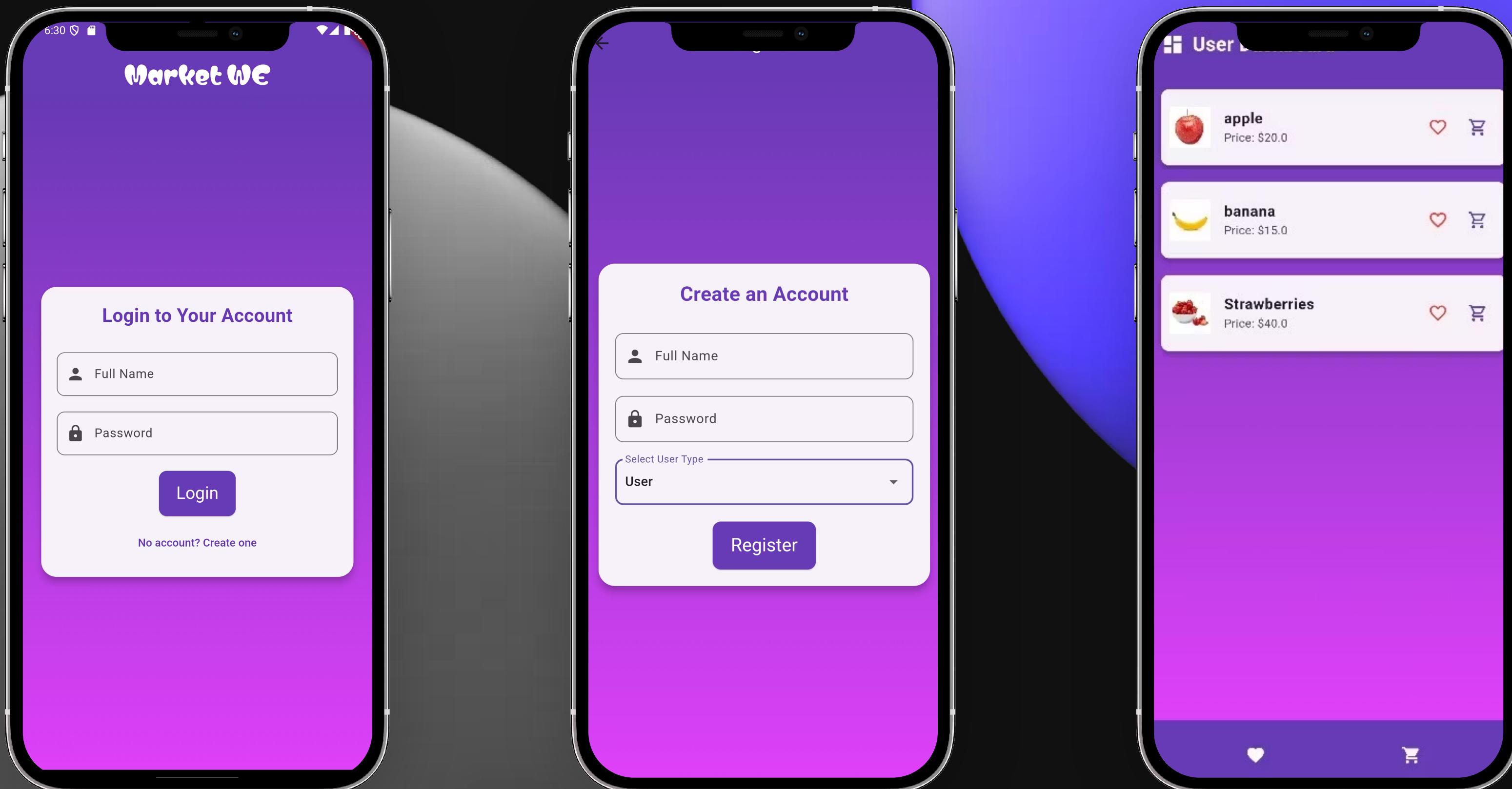
This internship has been a transformative experience, helping me grow both technically and personally, and preparing me for future opportunities in mobile app development.



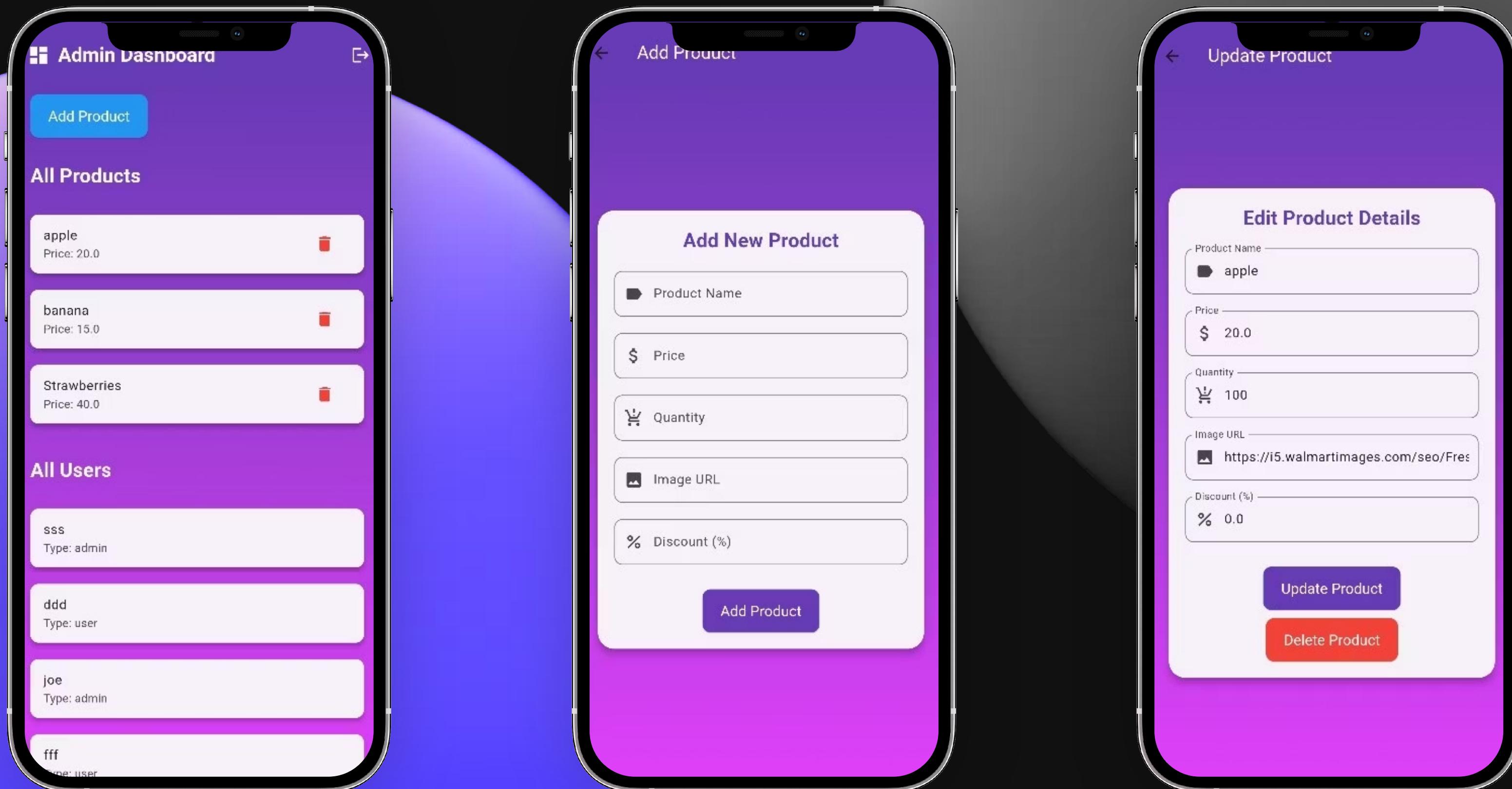
Tasks:



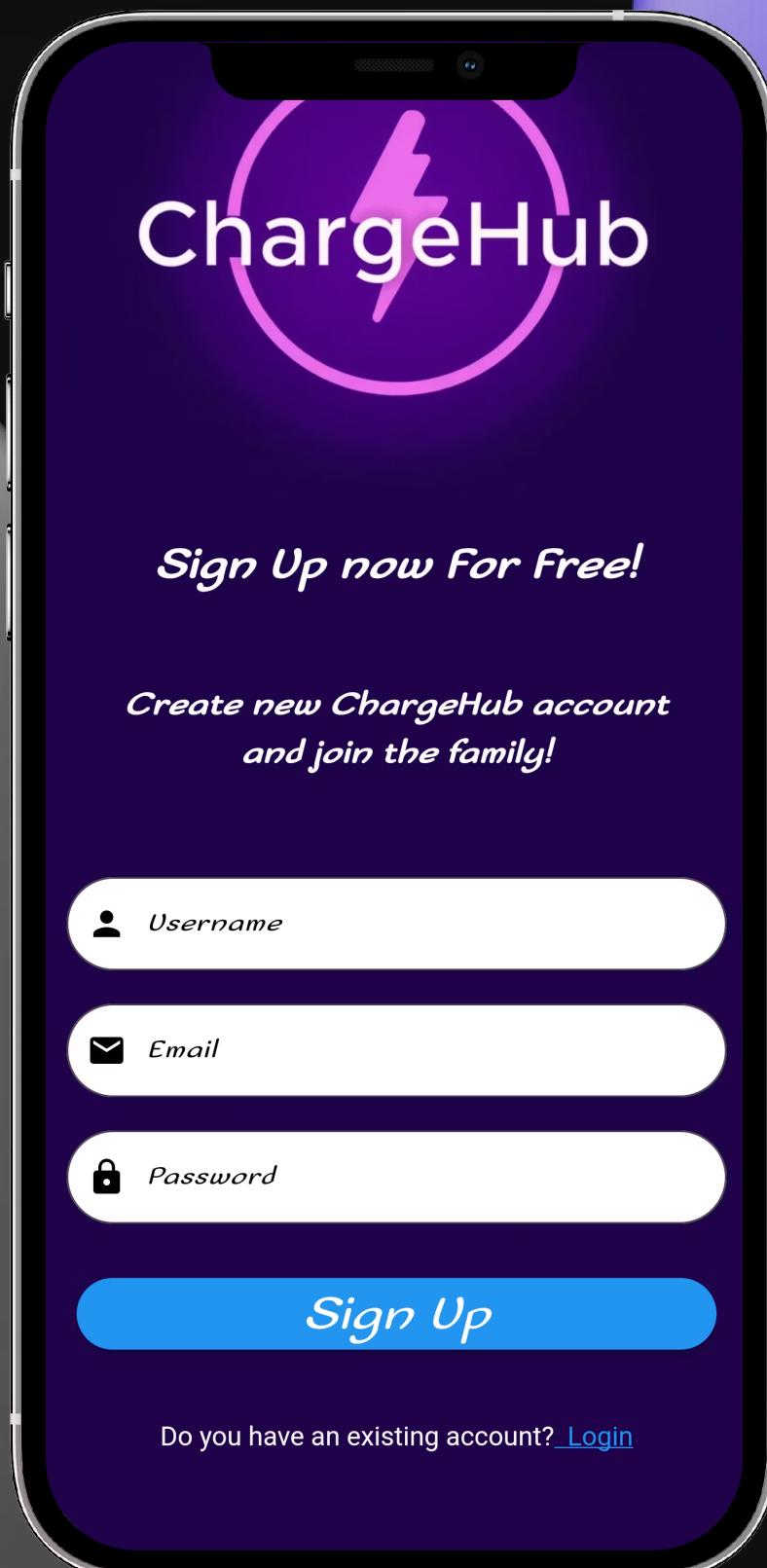
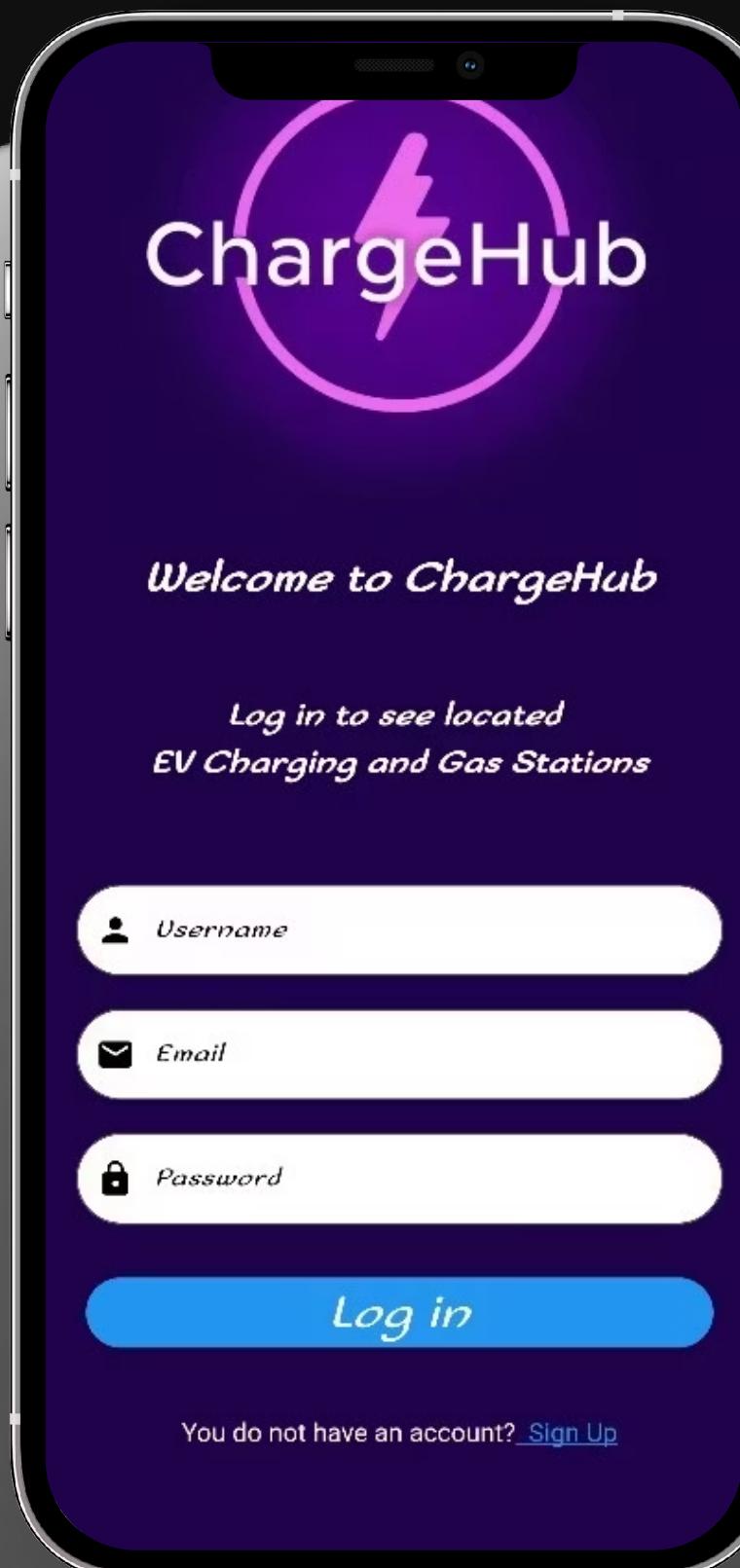
Tasks: WE Market



Tasks: WE Market



Tasks: EV & Gas Stations Finder App



FireBase:

Firebase

chargehub ▾

Cloud Firestore

Add database Ask Gemini how to get started with Firestore

Data Rules Indexes Disaster Recovery (NEW) Usage Extensions

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing Configure App Check

Panel view Query builder

(default) stations 2i1HTpLhBPyWZ5Fpb...
+ Start collection charging_stations
+ Add document 2i1HTpLhBPyWZ5Fpb...
+ Start collection
+ Add field available: true
name: "A1 station"
speed: "60"
type: "EV"
x: 29.96790298752555
y: 31.31304351078824

Try Pitch

Firebase

chargehub ▾

Authentication

Users Sign-in method Templates Usage Settings Extensions

Cross origin redirect sign-in is no longer supported in many browsers. Update your app to ensure your users can continue to sign into your app.

Dismiss Learn more

Search by email address, phone number, or user UID Add user G :

Identifier	Providers	Created	Signed In	User UID
hat_bosa@gmail.com	✉	Oct 11, 2024	Oct 11, 2024	b1yxJFTpxDRyyNERyrFHKyLe...
g@g.com	✉	Sep 25, 2024	Sep 25, 2024	vrenhPyCLAZIMI6WBk8JbxM...
judy@gmail.com	✉	Sep 21, 2024	Sep 21, 2024	E1BTQInI7eTKP1bSGK20wa3j...
nada.elhawarv3@qma...	✉	Sep 21, 2024	Sep 21, 2024	In57x5OZKgbwnN93l0Shaly3...
	✉	Sep 20, 2024	Sep 20, 2024	wiQednHRalRpIGLnZ0ai14KR...
	✉	Sep 19, 2024	Sep 19, 2024	dCmC0mwDbPNOHaQFz1E6t...
	✉	Sep 19, 2024	Sep 19, 2024	SQRSRxINaSIIV7QnO_l7wvi4Ct

Internship Reports



SCHOOL OF
INFORMATION TECHNOLOGY
& COMPUTER SCIENCE



Request for External Course Enrollment

Registered Course ID: COMM401 Date: 9-7-2024

Student Name Youssef Salem Hassan ID 211000582

School Computer Science Program media track

Email Y.Salem2182@nu.edu.eg Student Phone 01026855881

Course Title Flutter and Dart

Course Provided by WE Training & Development Sector

Course Track Mobile development by flutter Number of hours 120

Course content and Dart languages

1. Dart , From "Fundamental Data Types" to "casting & Exception Handling"
2. OOP , From "strings" to "Mixins".
3. Flutter , full course to graduation project .
4. Advanced topics , state Management , software Engineering ,

Expected Outcomes: project.

1. Proficiency in Flutter and Dart .
2. UI/UX Design skills .
3. Cross-Platform Development .
4. Backend Integration

- Youssef Salem

Student Signature

Omnia Mohamed

Supervisor Signature



Training & Intern. Exec. Signature

Internship Certificate



thank you





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