



Weather Application

Groub Code

ONLY_SW D4_G1d

OUR TEAM

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- **Mahmoud Ahmed Elsaid Elroby**
- **Ahmed Mohamed Elshahat Elkazaz**
- **Mahmoud Mohamed Ahmed Mohamed**
- **Amin Mamdouh Mohamed Amin**



Agenda

1. PROBLME

2.SOLUTION

3.TECHNOLOGY

3.SCREENS

5.ROLES OF OUR TEAM

**6.Future plan for
application development**

Weather Forecasting App

PROBLME:

Developing a cross-platform mobile app that provides real-time weather forecasts based on the user's location, while ensuring the app is user-friendly, performs efficiently across devices, and delivers timely weather updates, including severe weather alerts. The app should handle API integration, background updates, and multi-city support.



Weather Forecasting App

SOLUTION:

The solution involved using Flutter to build a cross-platform app with a responsive UI that works on both Android and iOS. Key components included integrating a weather API like OpenWeatherMap for real-time data, leveraging geolocation services to fetch the user's location, and implementing background services for continuous updates. Multi-city search functionality and local storage were added to allow users to monitor weather conditions across different cities. Lastly, the app was optimized for performance by caching data and reducing unnecessary API calls.



Technology

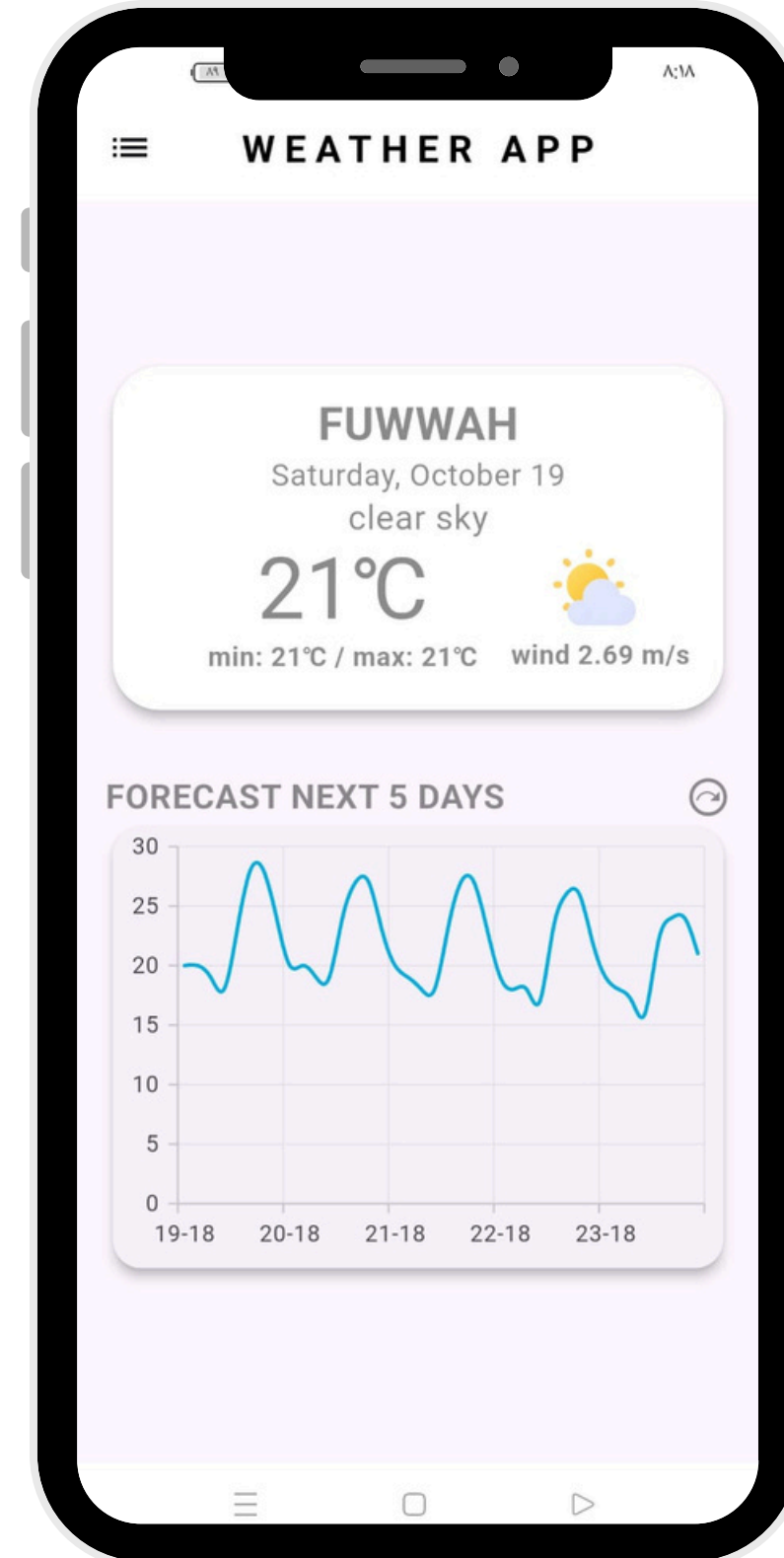
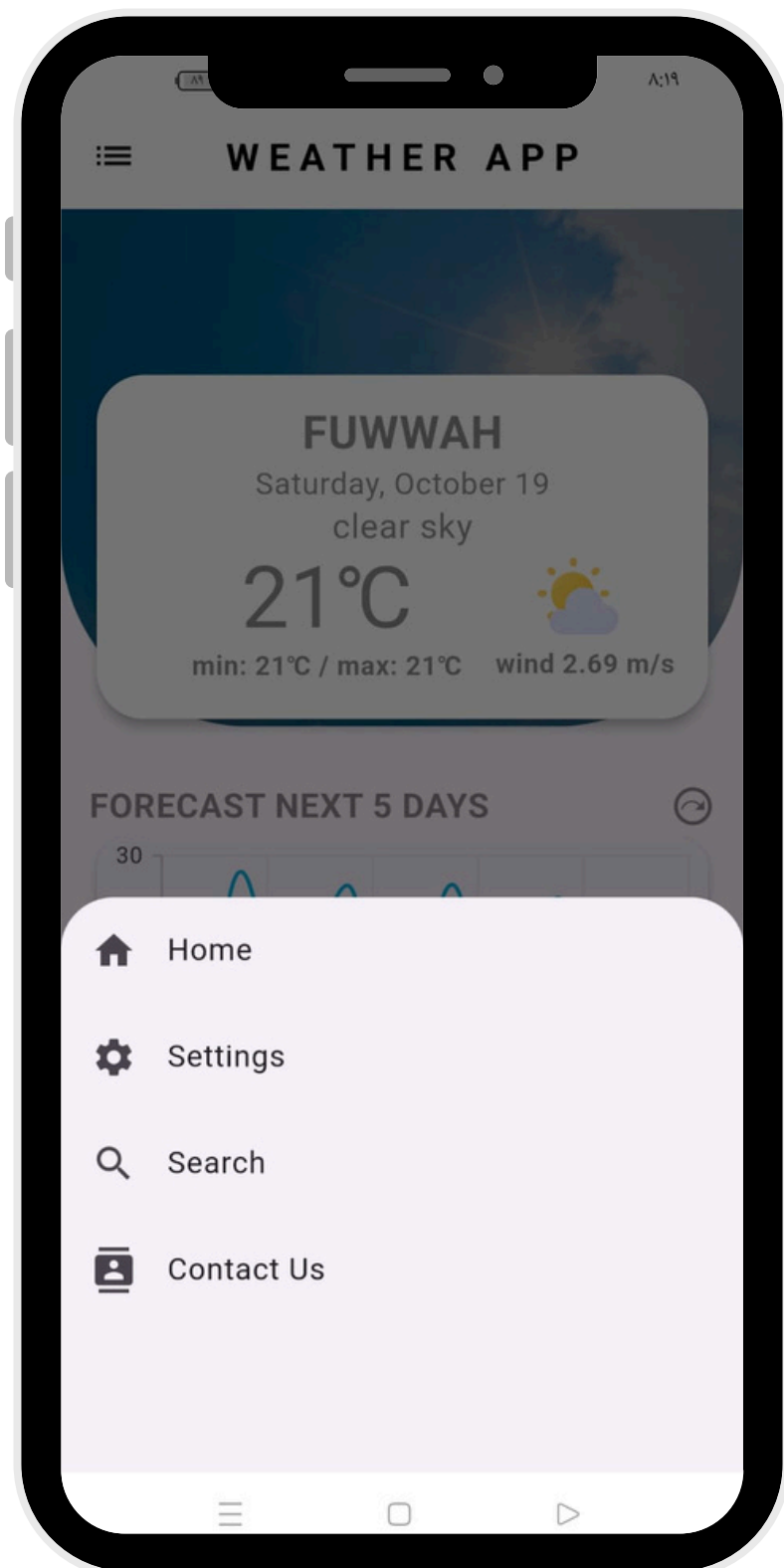
Dart

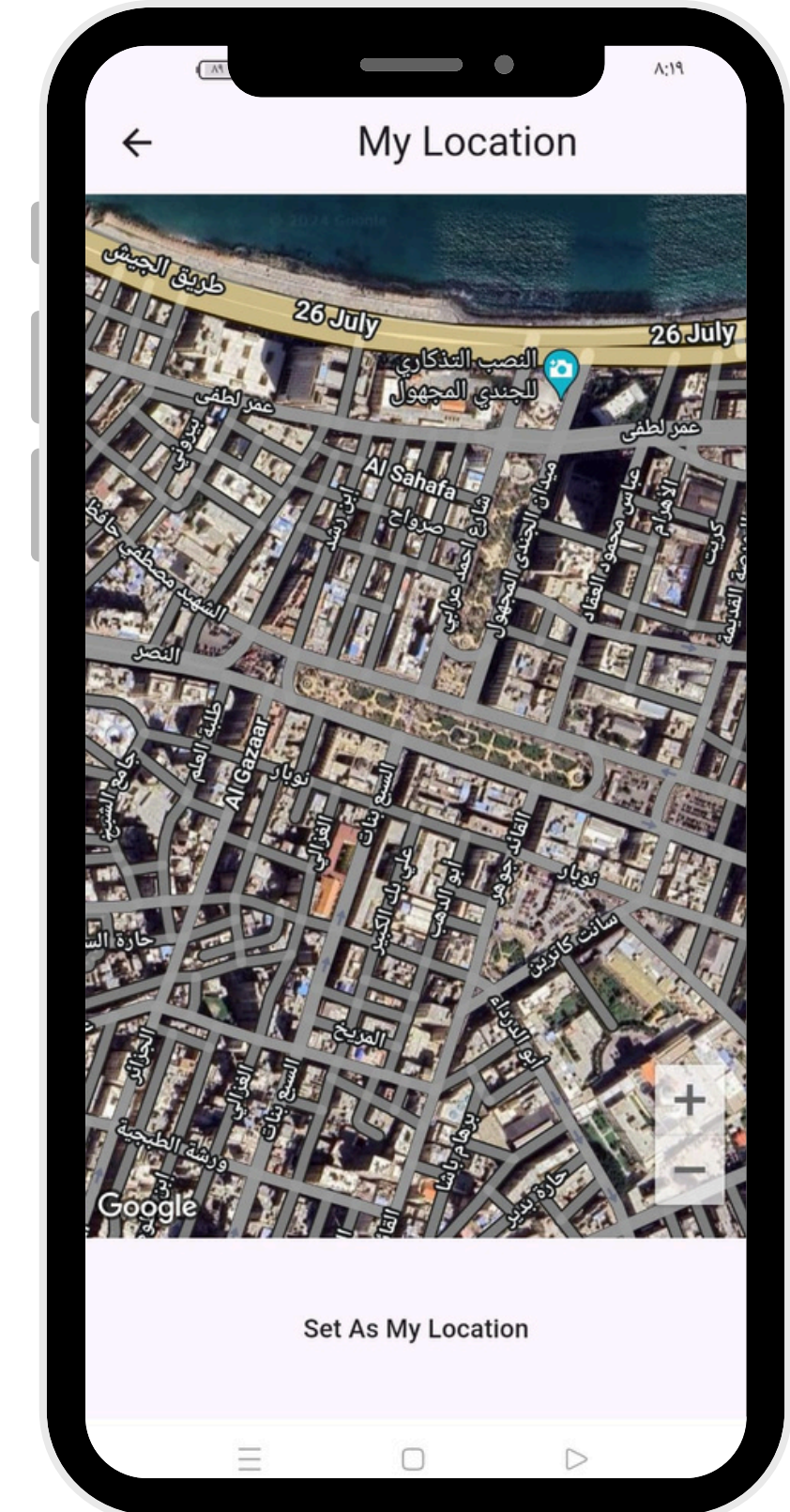
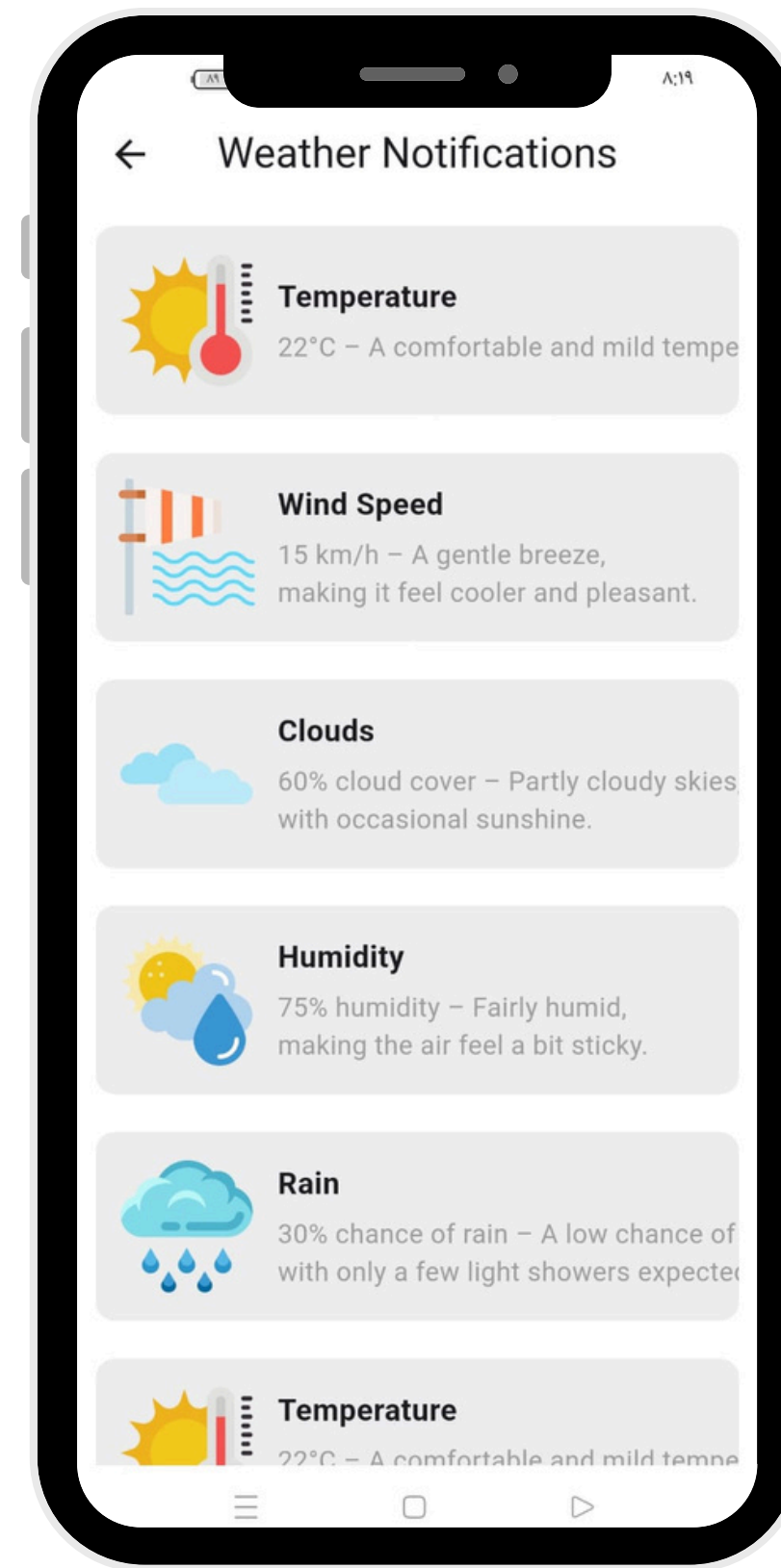
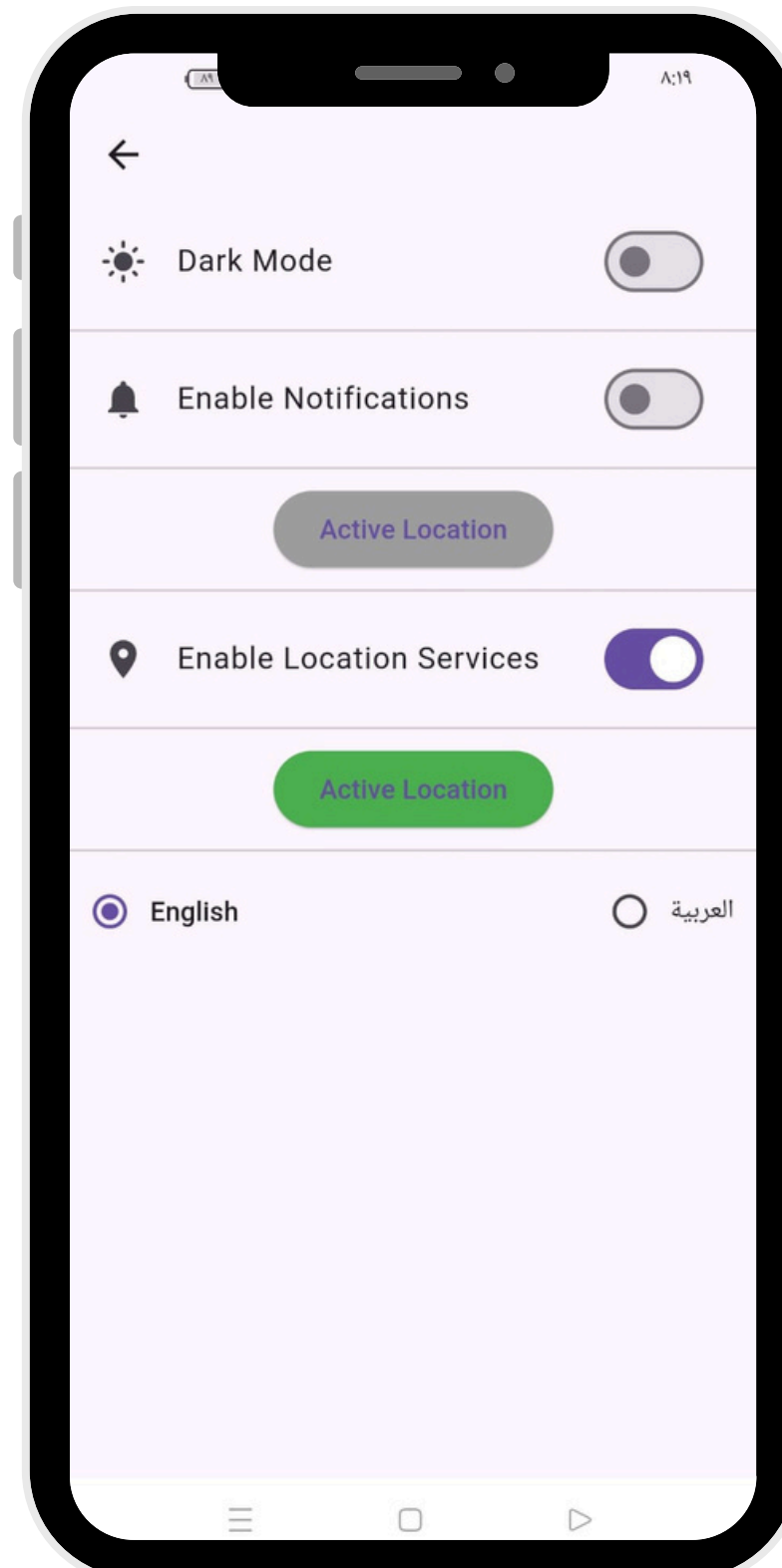


Flutter



6





ROLES OF OUR TEAM

Hazem Abdelhamed Abdelhamed Shohoud	Developed and structured a Flutter project for seamless integration, including creating and linking setting screens.
Mahmoud Ahmed Elsaïd Elroby	Designed and developed the Home Page for the project and creating a clear, engaging presentation
Ahmed Mohamed Elshahat Elkazaz	Created the splash screen, onboarding screens, notification screen, and presentation.
Mahmoud Mohamed Ahmed Mohamed	Prepared the GPS functionality to identify the location for search and created the documentation
Amin Mamdouh Mohamed Amin	Created the state management cubit, researched related packages for the project, and developed the documentation.

FUTURE **PLAN FOR APPLICATION **DEVELOPMENT****

- **Purchase the API from the company's official website**
- **Optimize Cubit for improved state management.**
- **Develop the API for notifications.**
- **Upload the application to the Google Play Store**

Thank you 