Flutter & Firebase Take Home Project Brief: Truck Driver Location Tracker

Implement a simple location tracker app using Firebase Auth and Cloud Firestore.

On first launch, the app lets users sign in with Firebase. (use anonymous sign-in for simplicity).

After sign in, the app shows a page where the user can:

- Enter his/her details (name, phone number) into a form and submit it
- Save this along with the current time into Firestore
- Each truck driver can start a shipment by inserting the shipment_id
- Upon starting a shipment the location of the truck driver will be sent automatically to the database for that shipment with its timestamp
- View a list of all shipments, sorted by most recent date.
- Each shipment will display the list of locations stored as a route on a map
- The app should update in realtime when the data changes on Firestore.

Bonus features:

- Allowing location data to be sent as a background operation (Android)

Notes:

- Feel free to use dependency injection libraries.
- When building the UI and navigating between screens, choose the approach that makes most sense in terms of usability.
- Adding tests is not required for this project, but the final code should be testable.
- If some requirements appear to be vague or lack sufficient details, make assumptions based on your own judgment.

The assignment will be evaluated according to the following criteria:

- the app works and satisfies the requirements outlined above
- general project structure and organization of code
- separation of concerns between UI, authentication, database code
- simplicity - we don't require an over-engineered solution
- naming conventions for variables, functions and classes
- Making the UI look nice is not required as part of this task - legible text and usable UI is sufficient.

When submitting the assignment, compress the entire Flutter project into a zip file, and send an email to hr@dlx.global. If there are any parts of this assignment that you can not complete, include a brief explanation of why. Please include the duration taken to complete the project.

Project Assessment
The project requires knowledge of the most basic features of Firebase Authentication and Cloud Firestore.