1 Mobile App Developer (Flutter + Native Android)

Responsibilities:

- Develop the **Flutter-based MDM Agent** app.
- Implement MethodChannels to integrate Kotlin/Java for deep system access.
- Use **Firebase Cloud Messaging (FCM)** for remote commands.
- Handle app installation/uninstallation, screen mirroring, and device control.
- Ensure the app runs in the **background (Foreground Service in Kotlin)**.

K Skills Required:

- Flutter & Dart (for UI and remote command handling)
- Kotlin/Java (Android Native) (for MDM features)
- Android APIs:
 - **DevicePolicyManager** (for device control: lock, wipe, reset)
 - MediaProjection API (for screen sharing)
 - AccessibilityService API (for remote interaction)
 - PackageManager API (for app install/uninstall)
 - **▼** Firebase (FCM, Firestore, Authentication)
 - **✓** WebRTC (for live screen streaming optional)
 - **☑** Background Services (Foreground Service in Kotlin)

📌 Key Deliverables:

- Flutter MDM Agent App (Communicates with backend via Firebase/WebSockets)
- MethodChannel Integration for Kotlin-based MDM features
- **Device Monitoring & Control** (Remote app management, lock, wipe)
- Screen Sharing via WebRTC (optional)
- Push Notification Handling for Remote Commands

Example Flutter Project Structure:



How They Work Together

- 1. **Mobile App Developer** builds the **Flutter MDM Agent**, which:
 - Registers with the **backend** via API.
 - Receives commands via **Firebase Cloud Messaging (FCM)** or WebSockets.
 - Sends **device status updates** to the backend.
- 2. **Web Developer** builds the **Admin Dashboard & Backend**, which:
 - Stores **device info** in a database.
 - Allows **sending remote commands** (install apps, lock phone, wipe data).
 - Displays **real-time device data** on a web UI.