

## Problem Statement:

### Develop a Mobile Application with Firebase Integration (MyDrive)

#### Overview:

You are required to develop a mobile application from scratch that integrates Firebase for authentication and data storage. The app should allow users to sign up, log in, and manage their profiles, including uploading a profile picture. Additionally, users should be able to upload photos, view them in an attractive gallery format, and manage these photos with options like delete and download.

#### Features:

##### Authentication:

1. Signup: Users should be able to sign up using their email and password. **(15 points)**
2. Login: Users should be able to log in using their registered email and password. **(10 points)**
3. Forgot Password: Provide a feature that allows users to reset their password via email. **(10 points)**
4. Google Sign-In (Bonus): Implement Google Sign-In for easy access. **(20 points)**
5. Phone Number Signup (Bonus): Allow users to sign up using their phone number. **(35 points)**

##### User Profile Management:

1. Profile Information: Store user information (e.g., name, email) in the Firebase Firestore database. **(20 points)**
2. Profile Picture: Allow users to upload and update their profile picture, which should be stored in Firebase Storage. **(20 points)**

##### Photo Upload and Display:

1. Floating Action Button (FAB): Place a floating action button at the bottom-right corner for users to upload new photos. **(10 points)**
2. Photo Upload: Save the uploaded photos to Firebase Firestore and Firebase Storage. **(25 points)**
3. Gallery View: Display uploaded photos on the main page in an attractive layout. **(20 points)**

4. Full-Screen View: When a user clicks on a photo, it should open in full-screen mode. **(10 points)**

5. Photo Management: Provide a three-dot menu in the full-screen view with options to:

a. Delete the photo from Firebase. **(10 points)**

b. Download the photo to the user's device. **(10 points)**

### Technical Requirements:

1. Firebase Authentication: For managing user login, signup, and Google/phone number authentication.

2. Firebase Firestore: To store user profiles and photo metadata.

3. Firebase Storage: For storing uploaded photos and profile pictures.

4. UI/UX Design: The application should be visually appealing and user-friendly, utilizing a modern and responsive design.

5. Free to use any Tech Stack: Flutter, Kotlin, Java.

### Bonus Points:

1. Implementing Google Sign-In and Phone Number Signup. **(20 + 35 points)**

2. Ensuring a smooth and intuitive user experience when uploading and managing photos. **(20 points)**

3. Making main page attractive layout eg. Staggered layout **(25 points)**

4. Overall app design and extra creativity of your choice. **(30 points)**