

Assignment 2

Develop a media recording app

Total: 5 marks

Due date: 5pm 16th September 2024

Submission requirements:

1. Submit all project files as one zipped file.
2. A one-page document explaining the cloud synchronisation strategies
3. Recorder app

Camera app on Android devices. It allows users to capture photos and videos using Google's Firebase Cloud Firestore database. The app will include the following features:

1. Media Capture

Your app should allow users to capture photos and videos using the device's camera.

2. Location Tracking

The app should track the user's location when a photo or video is taken. This information will be stored in the database.

3. Automated Synchronization

- Your app should automatically synchronize data with the Firebase cloud server without requiring user interaction. [1.5 mark]
- Considerations: The design should take into account device bandwidth and energy consumption. A **one-page document** should be submitted that explains (i) the strategies developed for both automated and user-driven synchronization, and (ii) how bandwidth and energy efficiency are achieved. [1 mark]

4. Cloud Organization [0.25 mark]

Photos and videos uploaded to the Firebase server should be organized by city.

5. Demonstration

- Demonstrate that the app can be built and run successfully on an emulator. This version of the should be submitted to Canvas. [0.5 marks]
- Ensure the code complies with the official [Android Java code style guidelines](#). This includes proper indentation, a maximum of 100 characters per line, no trailing whitespaces, and no unused imports. [0.25 mark]

Note

Marks for the successful implementation of each feature will consider how well you demonstrate the feature and answer questions from the assessor about your development process.

