

Project 3: Step counter, Custom Gestures, AWS S3

This is your final project, and will require a project presentation. You will change roles (Design, Team, Test) for this from Project 2 (don't repeat roles from Project 1). Submit only the code as a zip file. Only the new team leads must submit code.

Your task for Project 3 is to add a step counter, custom gestures, and cloud backup to your app.

1. You will implement a step counter module that keeps track of steps, and saves some recent step count history (whatever you think is reasonable) to your Room database.
2. You will implement a custom gesture to start the step counter, and a second custom gesture to stop it. Any reasonable gesture will do.
BONUS POINTS: Play an audio alert when the gesture is successfully used and the counter starts.
3. You will back up your Room database file on Amazon Web Services S3. Note that you're backing up the file itself. You must do so periodically. The backup should contain:
 - a. User profile data.
 - b. Weather data.
 - c. Sensor data from your step counter polled at some interval of your choice.**BONUS POINTS:** Restore the local Room database from the S3 backup the next time the user logs in on any device.
4. Do any user-interface and architecture polishing needed to accommodate these new changes.