

SEN0412 Mobile Programming I
Spring 2024/2025
Project Registration Form

Group Leader:

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Project Idea:

B. Database Mobile Application

Project Title:

Smart Personal Health Tracker

Project Description:

This mobile application is developed using **Flutter and Dart**. It serves as a **Smart Personal Health Tracker** that allows users to monitor key health metrics such as **steps, sleep, weight, and water intake**.

Users can **log in using their email and password**. Upon login, the **home screen** displays summary cards for each health metric. When a user taps on any of these cards (steps, sleep, weight, water intake), they are navigated to a **dedicated input screen** where they can **manually enter their daily status**.

All data is **stored in Firebase Firestore**, which can provide real-time syncing and dynamic data visualisation. The app displays **curve graphs and visual reports** based on user data for customisable time ranges:

- Past 7 days
- 15 days
- 1 month
- 3 months

One of the features will be the ability to **compare your health progress** with that of **family members or friends**, providing side-by-side visual insights for motivation and accountability.

This app supports **individual and collaborative tracking**, using Firebase as a secure and scalable backend.

We certify that we read and understand all instructions given in the guidance of the term project process.

Date: 8 May 2025

Signatures

Leader: