

Custom project progress/final report

COS30017 Software Development for Mobile Devices 2023

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Table of Contents

Overview of project.....	1
Weekly reports.....	1
Week 7	2
Week 8	2
Week 9	2
Week 10	2
Week 11	2
Level 1: Design evidence.....	3
Level 2: App evidence	4
Level 3: Extended research evidence	7

Overview of project

The Fitness Tracker App is designed to help users monitor and manage their exercise routines effectively. This app enables users to log their exercise activities, providing a comprehensive way to track fitness progress over time. Users can input details such as the date, duration, and type of exercise for each activity. The app supports creating, editing, and deleting activities, ensuring that users can maintain accurate and up-to-date records of their fitness journey.

Weekly reports

This is a weekly reflection task for those undertaking custom apps. You are welcome to type or make a video or audio response.

Please note that at least three satisfactory progress reports between weeks 7-11 are required to be eligible for a distinction or higher.

It is the same set of prompts every week:

- What did you achieve this week?
- What are you planning for next week?
- What roadblocks are you facing that we can help with?

Week 7

Week 8

Week 9

Week 10

- **What did you achieve this week?**

This week, I implemented Firebase Firestore as the database for my project. I made necessary changes to the add, update, and delete functions to ensure that any modifications are reflected in the database. Additionally, I updated the MainActivity to display the exercise entries, ensuring that any changes made are dynamically updated and retrieved from Firestore.

- **What are you planning for next week?**

Next week, I plan to focus on optimizing the data retrieval and display processes to ensure smooth and efficient interactions with the database. I will also work on enhancing the user interface to make it more intuitive and user-friendly. Furthermore, I aim to make some necessary improvements for my projects based on the teacher's feedback.

- **What roadblocks are you facing that we can help with?**

Currently, I am facing challenges with ensuring real-time synchronization between the local app data and Firestore, particularly handling offline scenarios and data consistency. Additionally, I need guidance on best practices for optimizing Firestore queries to enhance performance. Any assistance or feedback on these issues would be greatly appreciated.

Week 11

- **What did you achieve this week?**

This week, based on feedback from the teacher, I added two new modules to my project. The first module allows users to view and modify their profiles. Users can now set and update their name, occupation, age, height, weight, and picture, with all this data being uploaded to the database. The second module introduces recommended workout plans for users, categorized into three levels: Beginner, Intermediate, and Advanced. Each level contains a set of exercises tailored to that level, along with the estimated time required to complete those exercises.

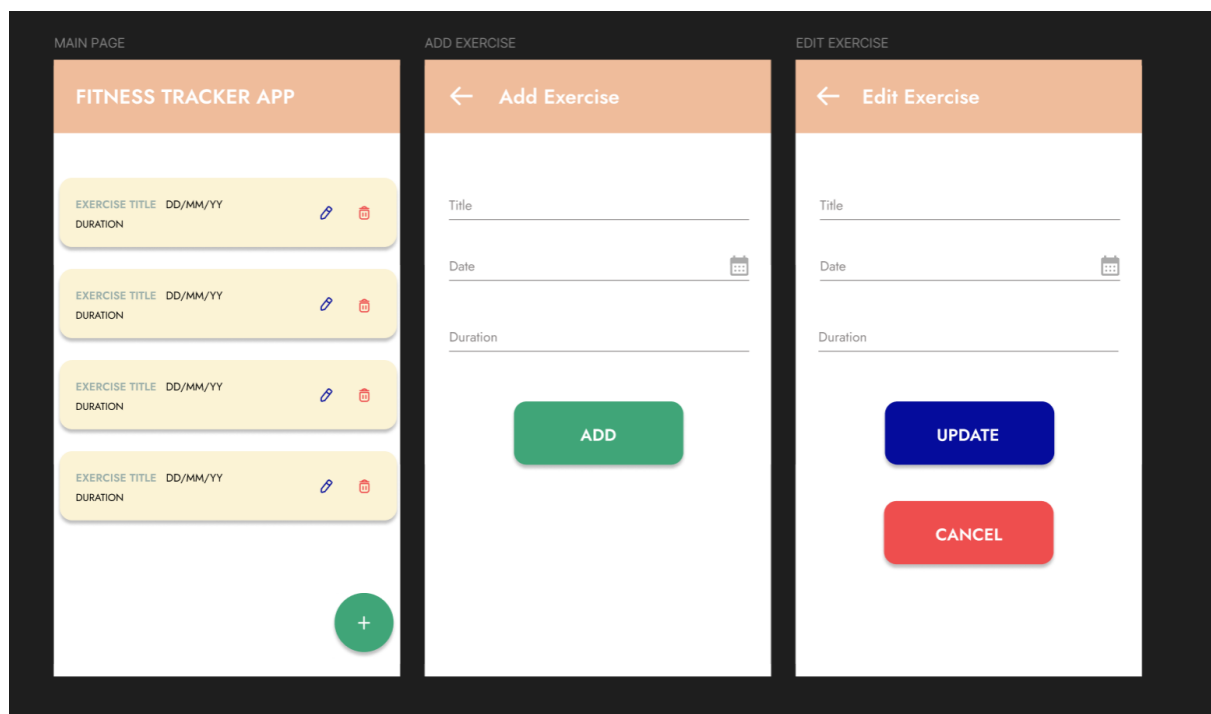
- **What are you planning for next week?**

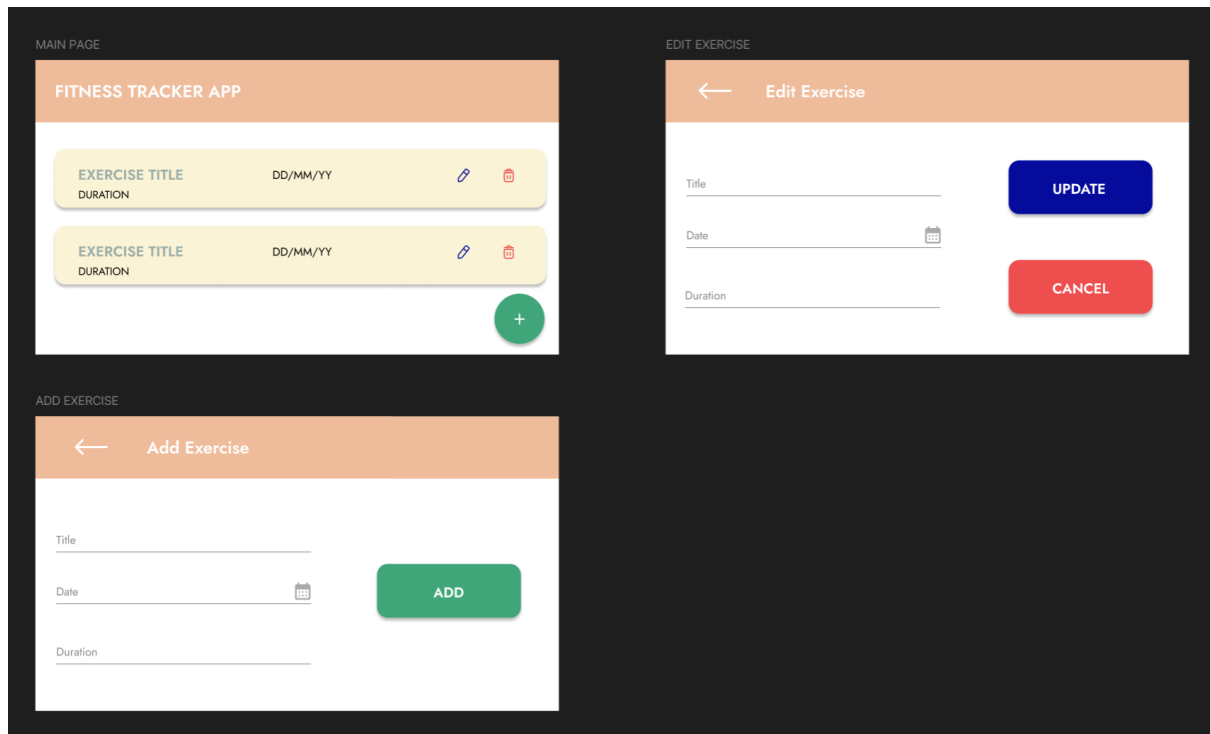
Next week, I plan to focus on thoroughly testing the new profile and workout plan modules to ensure they function correctly and provide a smooth user experience. I will also work on integrating these modules seamlessly with the existing features of the app. Additionally, I aim to enhance the user interface for these new features to make them more intuitive and visually appealing. Finally, I will begin gathering user feedback to identify any areas for improvement and further refine the app.

- **What roadblocks are you facing that we can help with?**

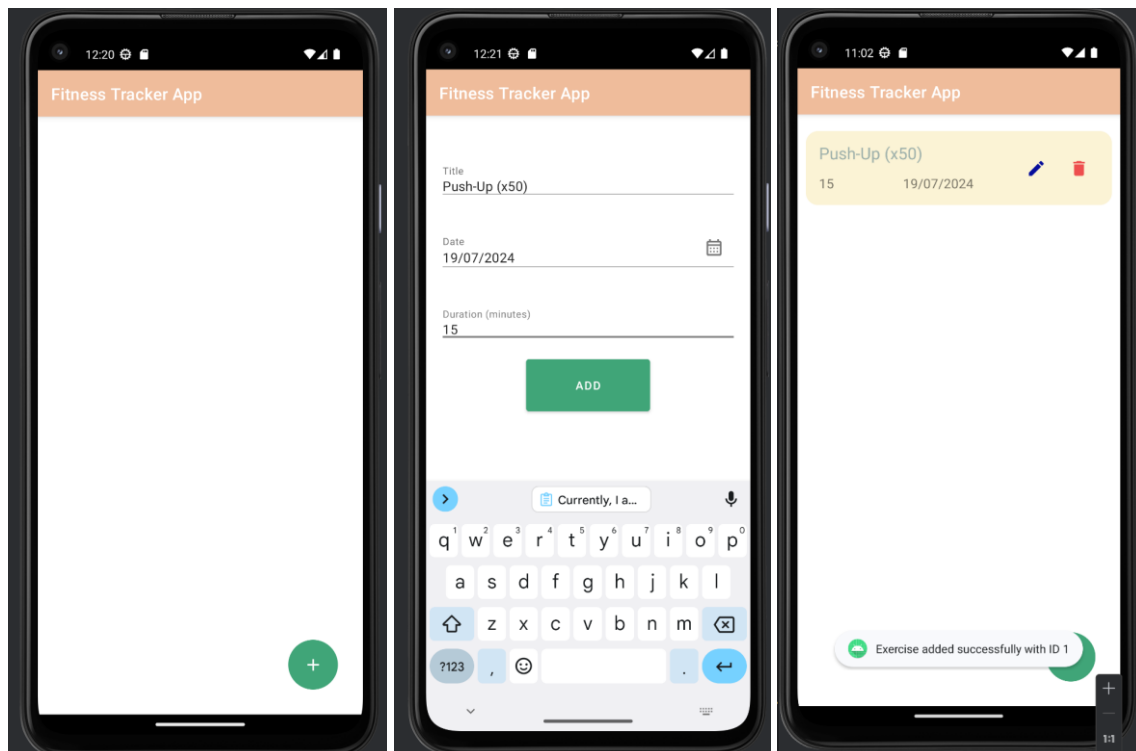
Currently, I am facing some challenges with optimizing the database interactions for the new profile and workout plan modules, particularly ensuring efficient data retrieval and updating without compromising app performance. Additionally, I need guidance on best practices for designing a user-friendly interface for these new features. Any assistance or feedback on these issues would be greatly appreciated.

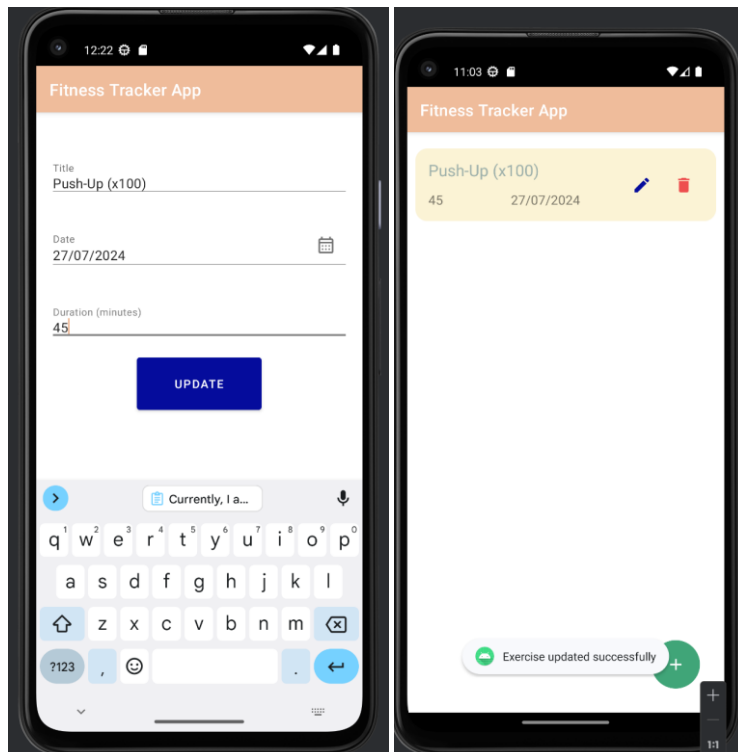
Level 1: Design evidence (<https://www.figma.com/design/zXFSkZfTGVjzRdpte6v4OS/CUSTOM-APP?node-id=0-1&t=Wdo2cMCCwlf0mqiy-0>)



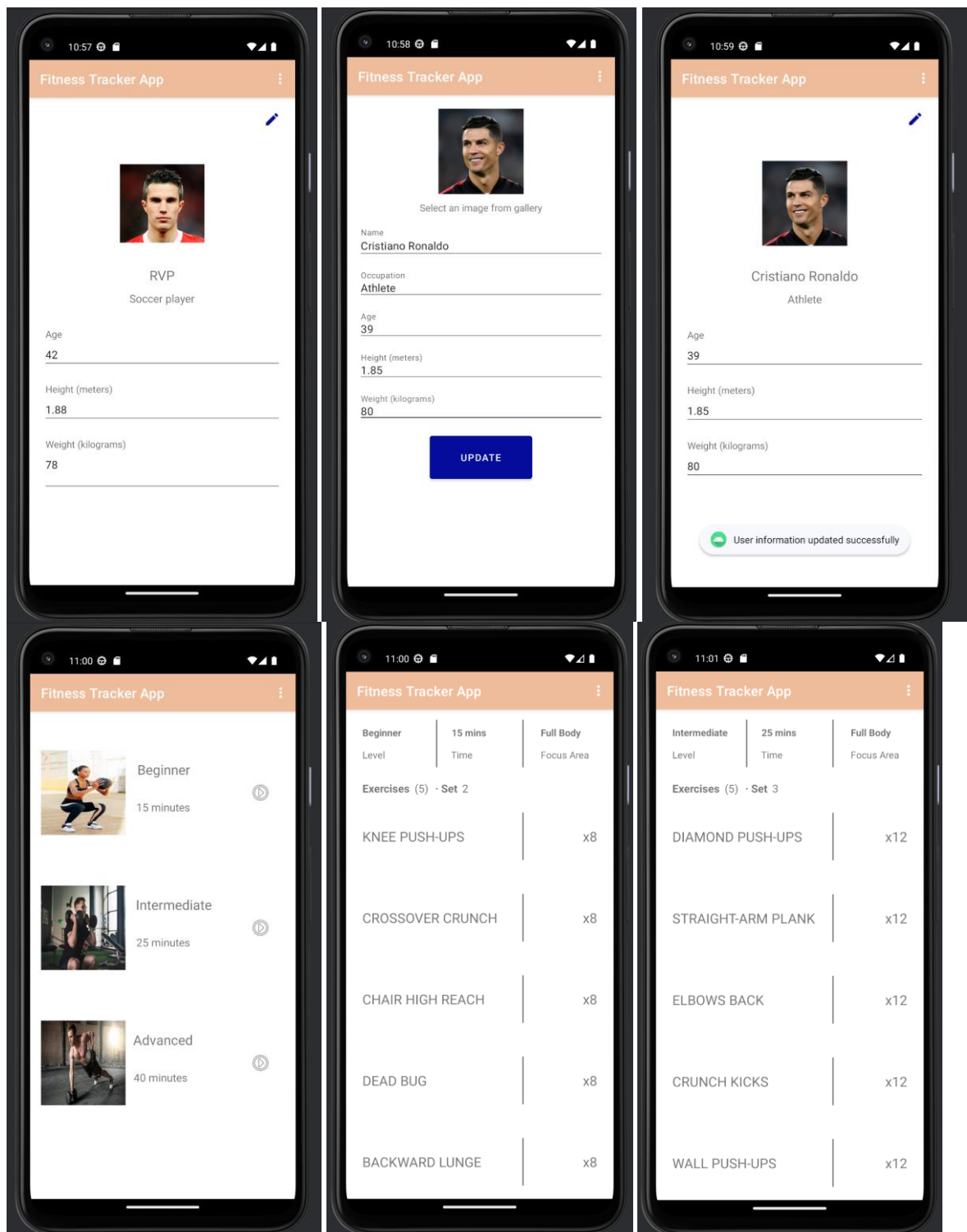


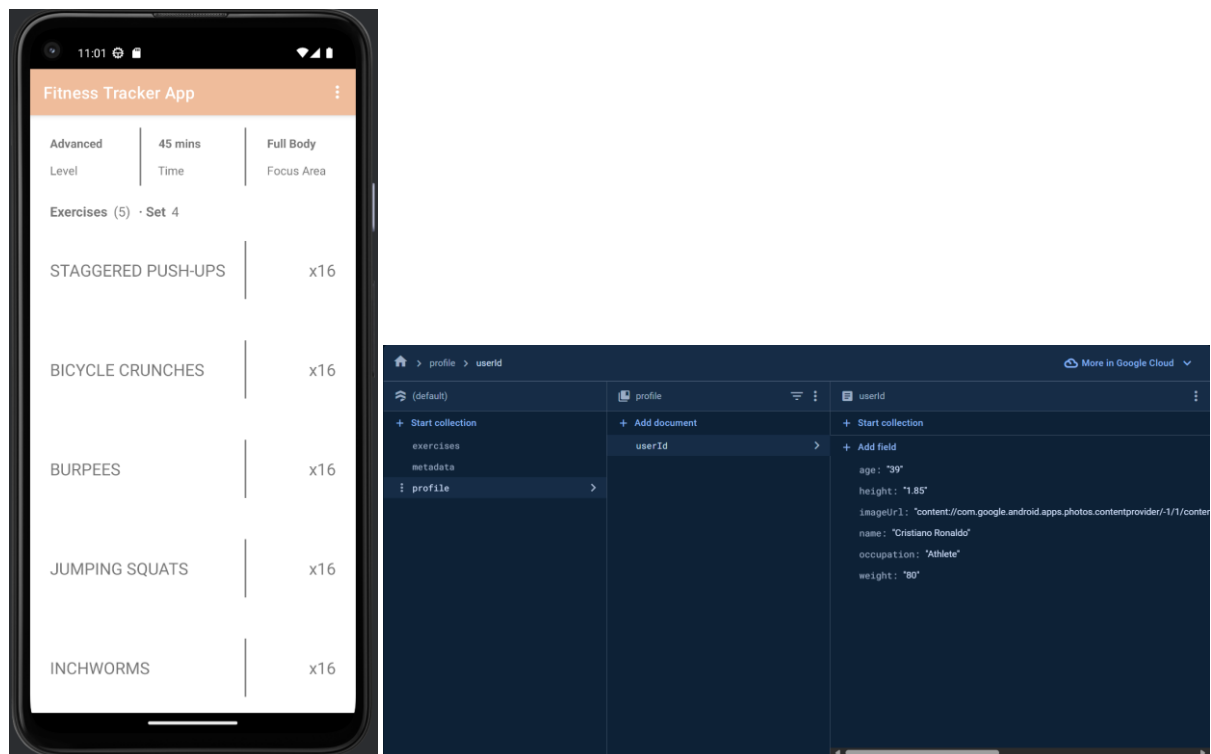
Level 2: App evidence





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Level 3: Extended research evidence

References