



HIGHER EDUCATION PROGRAMMES

Academic Year 2023:	January – June
Summative Assessment 1:	Android App Development (HASD200-1)
NQF Level, Credit:	6, 10
Weighting:	50%
Assessment Type:	Project
Educator:	Luvuyo Ngcobo
Examiner:	Ralph Mavhunga
Due Date	10 June 2024
Total	70 Marks

Learning outcomes assessed in this assessment:

- Understand the theory of material design, and the effects it has on the GUI.
- Understand the impact of material design on the layout of the user interface on elements placed on the same sheet.
- Examine the correct requirements to implement elements as best practice on a sheet.
- Understand the theory of mobile databases and apply this practically.
- Examine how to implement the database and the Create, Read, Update and Delete (CRUD) by implementing a database into a mobile app.
- Understand when to implement a code for a user interaction to save data to a database.
- Understand the way the Activity Life Cycle interacts with an activity.

Instructions

1. Develop an application using Android and SQLite.
2. Test the complete application as per the Rubric requirements.
3. You should submit the zipped folder containing the **source code**.

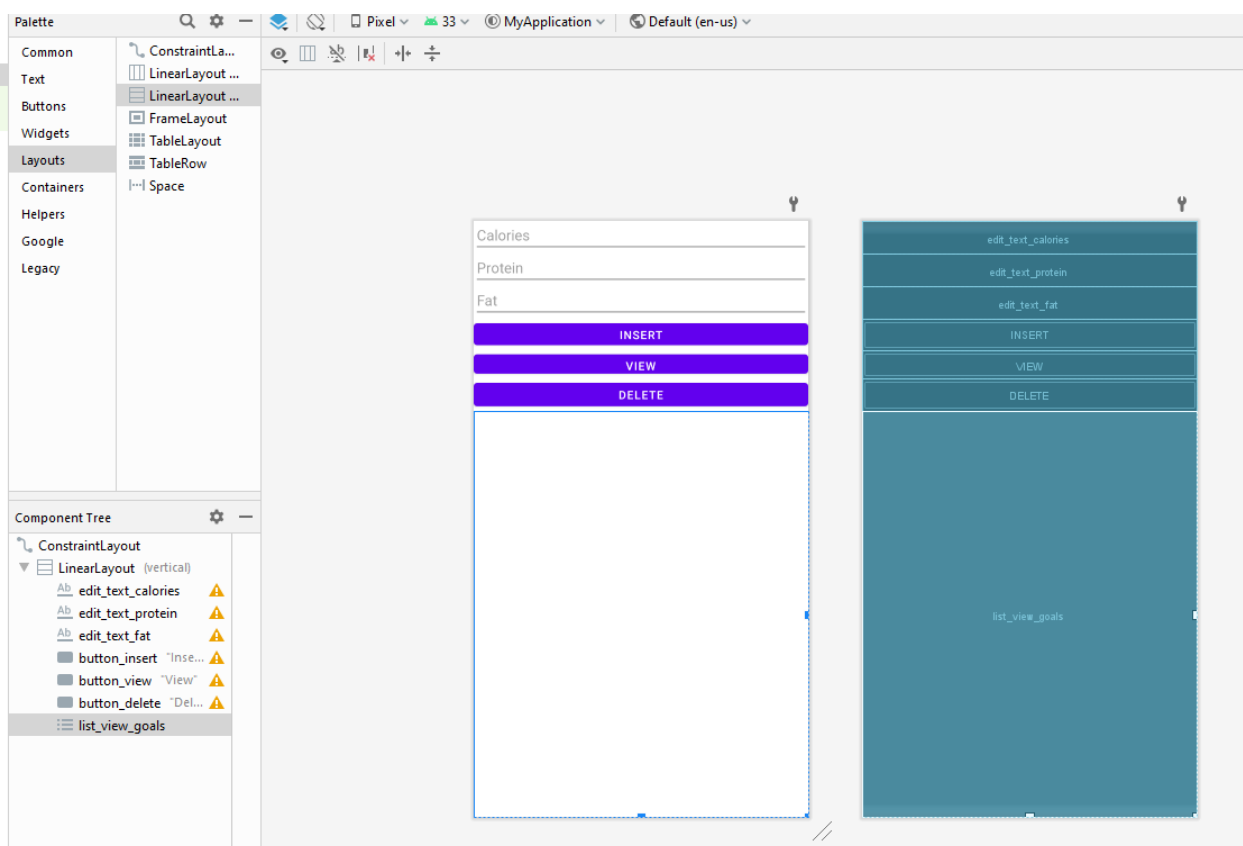
Note: Use the Rubric to guide your development of the application. **Start from from hereScenario**

A popular fitness and wellness centre has hired you, "FitLife," to develop a mobile application that helps gym-goers and fitness enthusiasts track their dietary plans to achieve their fitness goals. The proposed app should have the following specifications:

The proposed app should have the following specifications:

- The application should use a Navigation Drawer Activity template.
- The app should include a dietary planner that enables users to input their daily meals. Users can set nutritional goals (calories, protein intake, etc.). The app should allow users to insert, view and delete daily nutritional goals.

Sketch of the interface design:



Question 1

[70 marks]

By creating an app that encompasses these specifications, FitLife aims to empower its members to take control of their fitness journeys, making it a one-stop solution for all their fitness and wellness needs. Develop the Android app described in the scenario above. Use SQLite as your database.

NB. A zipped folder of the main folder of the application project should be submitted on Colcampus

Criteria		Maximum
Material design (Delete Interface)	Very good and appropriate design implementation using best practices. 5 marks. Good and appropriate design implementation. 4 marks. Appropriate design implementation, no best practices. 3 marks. The attempt was made, effort was inadequate. 2 marks. Not delivered. 0 marks	5
Material design (Search and Results)	Very good and appropriate design implementation using best practices. 5 marks. Good and appropriate design implementation. 4 marks. Appropriate design implementation, no best practices. 3 marks. The attempt was made, effort was inadequate. 2 marks. Not delivered. 0 marks	5
Functionality The system works perfectly as per specification. All four activities working as expected. The system connects to the atabase and all queries can be sent to and from the database, correct use of SQL statements.	All interfaces should be connected, allowing a smooth transition between interfaces 15 marks. The application should allow a user to insert records 15 marks The application should allow a user to view records 15 marks The application should allow a user to delete records 15 marks	60
Total Marks		70