



ASSIGNMENT COVER SHEET

SECTION A: GENERAL DETAILS

Program of study	BSc ICT
Module	Mobile Application Development
Year	Four
Semester number	2 nd
Assignment Title	Android Full Stack Developer Assignment
Student number	ICBM/BScICT/M/C2/05/22
Tutor	S. Mphamba
Due date	02/02/2024
Signature	

TOTAL SCORES	
General Comments	

1. Android Full Stack Developer Overview

An Android full stack developer is a professional that design, develop, test and also maintenance of Android applications. This role requires a profound understanding of front end and back end development for the Android platform. Responsibilities for Android full stack developer is to team up with UX/UI designers, implementing features, integrating APIs, optimizing performance, and ensuring the application's compatibility with many devices. Skills required for this role include the ability in programming languages like Java or Kotlin, understanding of Android SDK, expertise in RESTful APIs, experience in database management, and a strong grasp of software architecture principles.

2. Prototyping and Version Control

Prototyping is critical in mobile app development as it let the developers to visualize and improve the app's interface and user experience before actual implementation. Flows is easily identifying in a design and also helps in streamlining navigation and feedback are obtained within the development process. This approach guarantees the final product aligns with business objectives and user expectations.

Version control: using Git is important for collaborative software development in that it allows developers to track changes, create branches for parallel development, commit snapshots of the project at different stages, and merge changes seamlessly. It encourages the code collaboration, manages conflicts and provides a historical record of the project's evolution.

3. App Concept

Executive Summary

Ichocho Fitness App is the mobile application that has been proposed and it is targeting individuals interested in fitness and wellness. Ichocho Fitness App purpose is to provide a complete platform for users to set and attain fitness goals, access personalized workout routines, track progress, and connect with like-minded fitness enthusiasts. The app centers on creating a supportive community, nurtures motivation and offers a user friendly interface for fitness experience.

Core Functions

- Personalized goal setting and tracking
- Customized workout routines based on user preferences and fitness levels
- Progress tracking through metrics like calories burned, distance covered, and achievements
- Community features for users to share accomplishments, challenges, and tips
- Integration with wearable devices for real-time health data

4. Figma Design

I have created a visually appealing and user-friendly interface for Ichocho Fitness App. The design incorporates a clean layout, intuitive navigation, and vibrant visuals to enhance the overall user experience. Screenshots and Figma project links will be provided in the submission.

5. Git Version Control

A Git repository for Ichocho Fitness App has been established, housing the Figma design files. Commits have been made with descriptive messages.

6. Presentation

The 20-minute presentation will cover an overview of Android full stack development, an explanation of the Ichocho FitApp concept, a demonstration of the Figma design, an overview of using Git for version control, and a showcase of the Git repository with commits and version history.