

SOFTWARE REQUIREMENT SPECIFICATIONS

Project Topic: [Druk Fitness]

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1. Introduction

a. Purpose

- To develop a mobile application called “DrukFitness” for virtual learning of exercises.
- To encourage Bhutanese people to maintain healthy lifestyle.
- Give free work out ideas.
- Monitor the diet easily by calculating the BMI as well as intake calories, protein.
- Easily affordable and inexpensive.

b. Scope

- Scope of the project is within Bhutan and it is mainly for the beginner who wants to stay active and fit.

System Scope:

- One can access without the requirement of internet connection (Offline based app).
- Images and videos are also included to make the app more interesting and motivating for user.
- There will be three sections: Exercises, Tips and Utility.
 - **Exercise:** Under Exercises will be types of exercise like Yoga, Weightlifting and Cardio. User can view any exercise that they want to do.
 - **Tips:** Users will see basic tips about body muscles and diet.
 - **Utility:** Users can calculate their BMI, Calories, and protein.

2. Requirements

a. Functional Requirements

- i. User can choose one function from Exercise, Tips and Utility in home page.
- ii. Under Exercise, User can choose any one type of exercise.
- iii. In tips, user will read different tips about physical exercise, diets and etc.

- iv. Under Utility, user can calculate their BMI as well as intake protein and calories
 - v. Videos and images are included for users to understand better.
- b. Non-functional requirements
- i. The application will work offline.
 - ii. Can be accessible without logging in or registering.
 - iii. The app doesn't contain any harmful pictures or videos.
- c. Software Requirements

Items	Specifications
Java	Java Standard Edition Development Kit (JDK) 8
Operating System	Microsoft Windows 10/8 (64-bit) or ubuntu 20
Android SDK	Android SDK version 16
DB Browser	Version 3.12.1
SQLite	Version 3.31.1

- d. Hardware Requirements

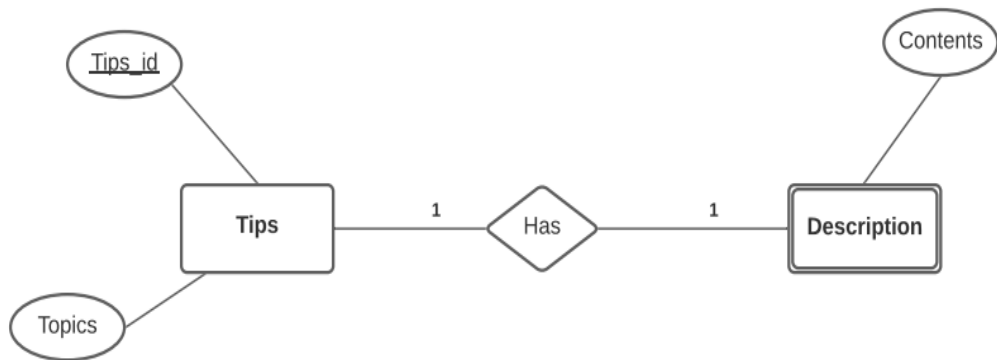
Developer's Requirements

Items	Specifications
Disk Space	200MB
Screen Resolution	1280x800
RAM	4-16GB RAM
Processor	Core i3 (2.00 GHz)

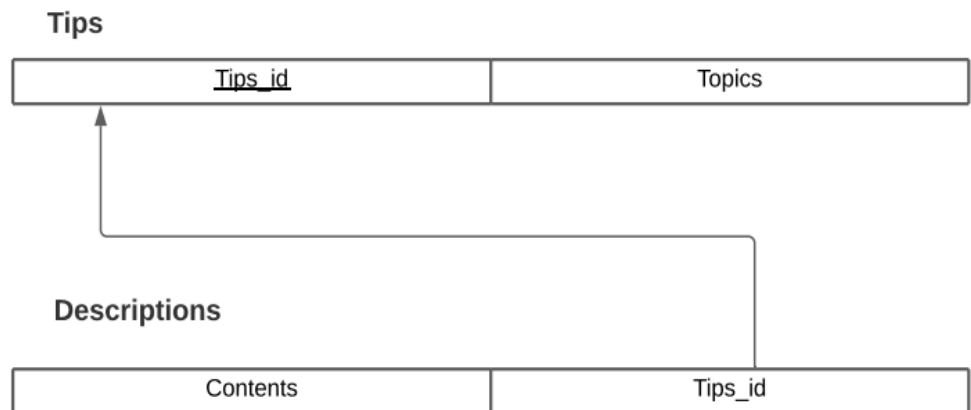
User's Requirement

Items	Specification
Mobile Phone	With Android OS

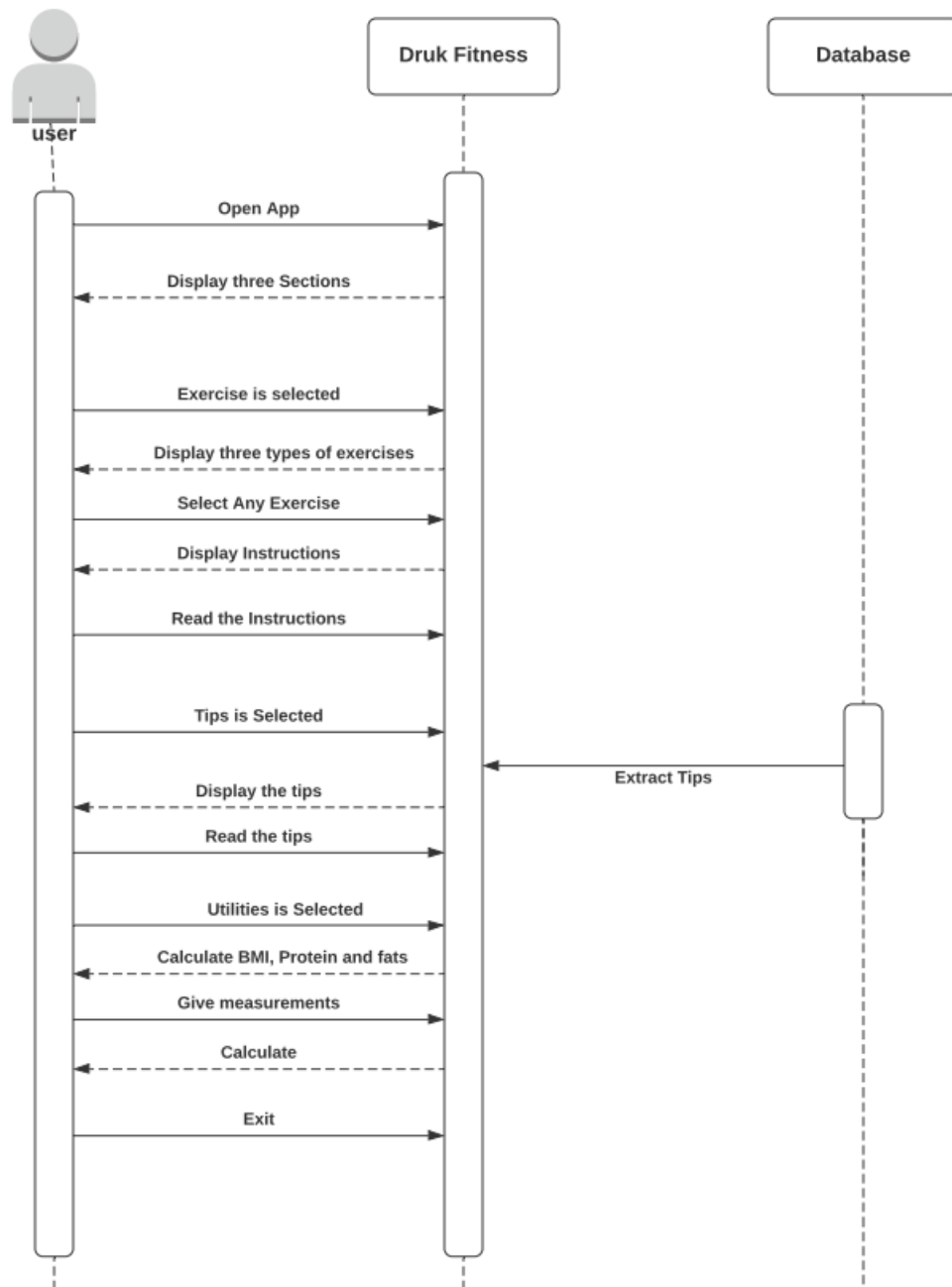
3. System designs
- a. ERD(Entity Relationship Diagram)



- b. Relational Schema



c. Sequence Diagram



d. Use case Diagram

