HACKATHON 2023 SPECS

Phase 1: 15 - 17 September 2023

Submission deadline is September 17 at **9:00 AM**

Introduction and Objectives

In today's digital age, health apps play a pivotal role in helping individuals maintain a healthy lifestyle. However, there's a gap in the market for apps that are both engaging and user-friendly. This document outlines the vision, challenges, and objectives for our new health app project.

Hackathon Objective:

Develop a health app that seamlessly integrates gamification principles, allowing users to effortlessly integrate it into their daily routines for health monitoring, education, and support.

Gamification has become a cornerstone in enhancing user engagement in software applications. By integrating gamification techniques into software development, we can elevate user experiences and increase enjoyment.

Key Gamification Principles to Consider:

- Establishing clear goals and challenges.
- Personalizing user experiences.
- Delivering immediate and visible feedback.
- Offering choices and embracing the possibility of failure.
- Promoting social interaction and engagement.

Technical Requirements:
Please choose from the following technologies to utilize for development:

Frontend: Angular, Ionic, React, or Flutter.
Backend: Node, C#, Golang, Java, or Python

Project Vision and Goals

The project envisions a health app that empowers users to monitor, learn, and seek help for their health concerns.

Address the following challenges:

- **Enhancing User Engagement:**
  - Traditional health apps lack engaging elements.
- **Comparative Health Tracking:**
  - Users struggle to compare their progress with others.
- **Motivation Reinforcement:**
  - Users who achieve personal goals should receive recognition.
- **Health Improvement Push:**
  - Existing apps focus on monitoring rather than prompting improvement.
- **User-Friendly Interface:**
  - Ensure the app is user-friendly for all, including less tech-savvy individuals.

Objectives

The system aims to:

- Allow users to input health data (e.g., weight, water intake, steps, etc.).
- Enable health status comparison with peers.
- Provide a user-friendly tutorial.
- Issue personalized health challenges.
- Implement a reward system for achieving health goals.

Use Cases

Must-Have Features:

- Progress bar and point system for task completion.
- Display of embedded ads during app usage.
- User input of health data, including water intake, steps, weight, etc.
- User-set goals (e.g., increasing water intake).

- Feedback notifications for challenge completion.
- Health-related challenges.
- Communication channel with medical professionals.

Should-Have Features:

- Standard health benchmarks for comparison.
- Leader board showcasing challenge participation and points.
- Nearby doctor search.

Could-Have Features:

- QR code-based health data sharing for comparison.
- Suggestions for upcoming fitness events.
- Personal dashboard for tracking progress.
- Intelligent challenge recommendations based on past goals.

Submission

Please submit the following for marking: your source code, a 5-7 minute video demo of your application and a readMe with instructions on how to run your application and any other applicable information. Failure to submit any of these three items will result in **immediate** disqualification.

TIPS:

Remember that phase 2 involves building on the business aspect of the project. If points correlate with monetary value, we need to ensure balance. For example, if 100 points = 100 rands for a healthy beverage, make sure to avoid situations like awarding 1000 points for completing a tutorial.
This foresight will ensure business scalability.

While adhering to these guidelines, create an innovative health app that bridges the gap between health monitoring and user engagement, meeting the evolving needs of today's health-conscious audience.