EDYODA DIGITAL UNIVERSITY

Python Developer Assessment - Test 2

[Coding Round]

Problem Details

The objective of this project is to manage gym memberships using the command line.

Features:

- Super-users should be able to perform CRUD for members and workout regimens.
- Workout Regimen:
  - **BMI stands for Body Mass Index**
  - BMI < 18.5: Set following as default workout regimen:
    - Mon: Chest
    - Tue: Biceps
    - Wed: Rest
    - Thu: Back
    - Fri: Triceps
    - Sat: Rest
    - Sun: Rest
  - BMI < 25: Set following as default
    - Mon: Chest
    - Tue: Biceps
    - Wed: Cardio/Abs
    - Thu: Back
    - Fri: Triceps
    - Sat: Legs
    - Sun: Rest
  - BMI < 30: Set following as default
    - Mon: Chest
    - Tue: Biceps
    - Wed: Abs/Cardio
    - Thu: Back
    - Fri: Triceps
    - Sat: Legs
    - Sun: Cardio
  - BMI > 30: Set following as default
    - Mon: Chest
    - Tue: Biceps
    - Wed: Cardio
    - Thu: Back
    - Fri: Triceps
    - Sat: Cardio
    - Sun: Cardio

- Member Creation:
  - Following details should be required to create a member: Full Name, Age, Gender, Mobile Number, Email, BMI, Membership Duration in months (1, 3, 6, or 12).
  - Based on BMI a predefined workout regimen should be assigned.
- Profile can be viewed by the superuser by entering the contact number.
- Superuser should see following options:
  - Create Member
  - View Member
  - Delete Member
  - Update Member - It should include a way to extend and revoke membership.
  - Create Regimen
  - View Regimen
  - Delete Regimen
  - Update Regimen
- Member should see following options:
  - My Regimen
  - My Profile.

Grading Details
- **Total Grades:** 200
- **Passing Grades:** 140

Result/Report Details
- The result, grades and reports will be shared on 11th September 2021.

Submission Details
- You have to submit the code URL. Please upload all your code in a public Github Repository.
- You have to submit the project video. You can upload the video on Vimeo, Youtube, Google Drive etc. Please ensure that the video is publicly available. To check that please try to open the URL in incognito mode. Please follow the video structure as explained in the assessment guide document.
- You have to submit all these URLs at this form: https://forms.gle/MuFhCfEs6Qp5NsDaA
- Please ensure that you make your submissions before ***23rd Aug'21 11:59 PM IST*** sharAsp. **No late submissions will be accepted.**

Video Details:
- The duration of the video should be max 20 minutes.
- Total marks for the video is 100.
- You can record the video using zoom, loom or any other screen recording tool.
- Please ensure that your video is also visible either on the bottom left side of the screen or bottom right side of the screen.
- The video needs to be structured in 3 sections:
  - **Webapp Walkthrough (Max 3 minutes)**
    - You have to give a product demo of your app. Basically, talk about all the functionalities and show them live. Do NOT show code in this step.
  - **Code Walkthrough (Max 10 minutes)**
    - Project Architecture
    - Screenwise code walkthrough
  - **Video QnA:**
    - Explain the class structure and the relation between them.
    - Explain how are you storing the member details provided by the superuser
    - Explain how directories are implemented internally.