SEMESTER PROJECT (FASTnFITNESS)

LINKS:

https://drive.google.com/file/d/1sHFhbORLBwrUxdfCgDmFJGt8sxZKKryR/view?usp=drive_link

GROUP MEMBERS:

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PROJECT DESCRIPTION: FITNESS APP

Project Goal:

To develop a comprehensive fitness app that empowers users to achieve their health and wellness objectives through personalized workout plans, nutrition tracking, progress monitoring, and a supportive community.

Target Audience:

The app will cater to a diverse range of users, including individuals seeking weight loss, muscle gain, improved fitness levels, and overall well-being.

Key Features:

- **Personalized Workout Plans:** Generate tailored workout routines based on user fitness goals, experience level, and equipment availability.
- Exercise Library: Offer a vast database of exercises with detailed instructions, video demonstrations, and difficulty levels.
- **Nutrition Tracking:** Provide tools for calorie counting, macronutrient tracking, and meal planning to support dietary goals.
- **Progress Tracking:** Monitor user progress through metrics like weight, body measurements, and exercise performance.

Technology Stack:

- SQLite
- Java

Key features/Functionalities/Screens:

1. Profile Management:

- o Creating, selecting, deleting, and renaming profiles.
- Setting and displaying profile pictures.

2. Workout Tracking:

- o Logging and viewing strength training exercises (FontesPagerFragment).
- o Recording and tracking body weight (WeightFragment).
- o Logging cardio exercises and viewing workout history.

3. Exercise Data:

- o Viewing and managing exercise machines (MachineFragment).
- o Accessing and following workout programs (ProgramListFragment).

4. Progress Tracking:

- o Tracking body measurements (BodyPartListFragment).
- o Viewing progress pictures (ProgressImagesFragment).

5. Settings and Preferences:

- o Customizing app settings (SettingsFragment).
- o Day/night mode selection.

6. Data Management:

- Exporting workout data to CSV format.
- o Importing workout data from CSV or ZIP files.
- o Database management (deleting and migrating).

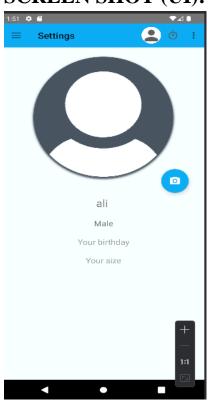
7. Additional Features:

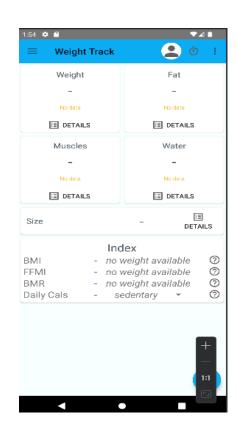
- o Music control integration.
- o Chronometer for tracking workout duration.
- Introduction/tutorial screens for new users.

Dependencies/Libraries Used:

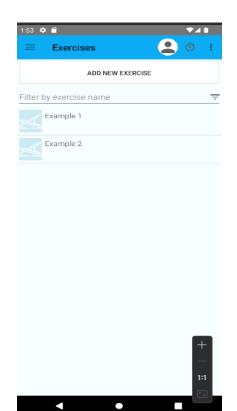
- 1. **Android Support Libraries**: For compatibility and UI elements.
- 2. **CircularImageView**: For displaying profile pictures in a circular format.
- 3. **KToast**: For displaying customized toast messages.
- 4. **SweetAlert**: For displaying customizable alert dialogs.
- 5. **SQLite**: For database management.
- 6. **MusicController**: A custom class for music control.
- 7. **ImageUtil**: A custom class for image handling.
- 8. DateConverter, FileNameUtil, UnitConverter: Custom utility class

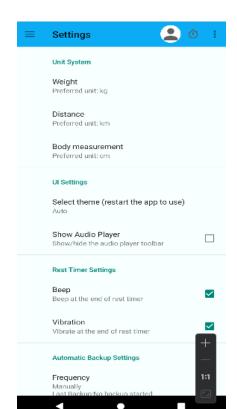
SCREEN SHOT (UI):

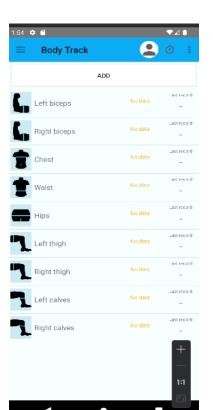


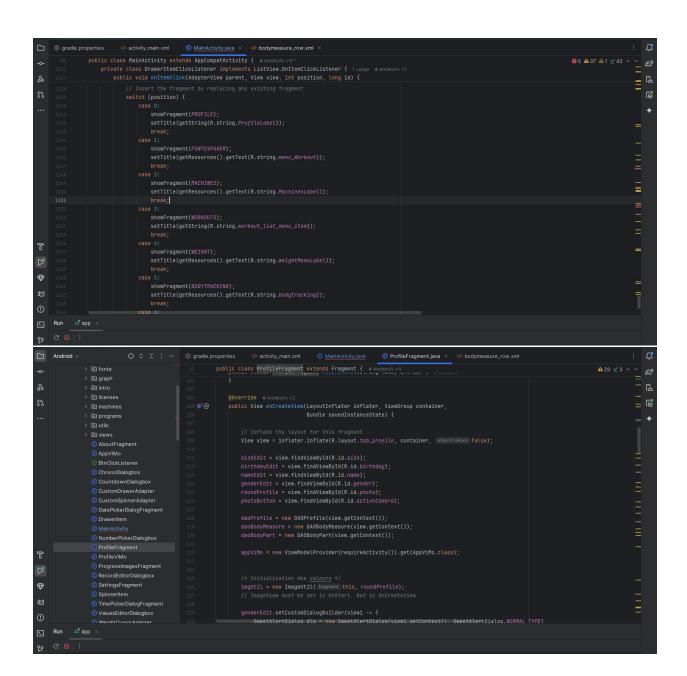


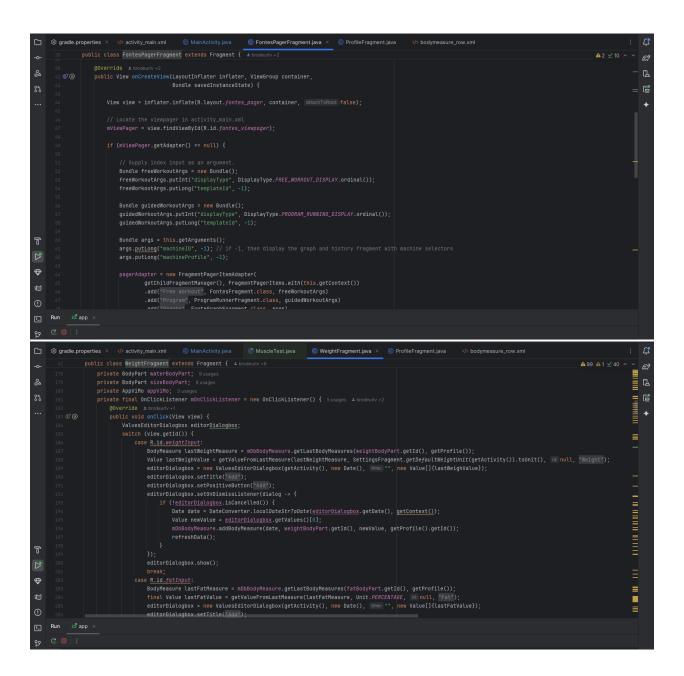












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