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Project report

GITHUB LINK: https://github.com/alexisude/Fitness-Club-Management

ER-DIAGRAM: in the erdiagram.png file.

CONCEPTUAL DESIGN: in the conceptualdesign.pdf file.

REDUCTION TO RELATION SCHEMAS: In the relationshipschema.pdf file

BONUS FEATURES:
Workout and Health Tracking Options: Implemented a comprehensive menu system allowing users to track various health metrics. This includes options to track heart rate, start workout timers, measure blood pressure, and calculate BMI.

Heart Rate Tracking: The heart rate tracking feature allows users to monitor their heart rate in beats per minute (BPM). The system generates simulated heart rate data for demonstration purposes.

Blood Pressure Measurement: Added a new feature to measure blood pressure. Users are prompted to ensure proper device placement before measurement.

Body Mass Index (BMI) Calculation: Used user weight and height data stored in the database to calculate BMI automatically. This feature enables users to monitor their BMI over time, offering insights into their overall health and fitness levels.

Admin Panel Enhancements: We implemented additional functionalities in the admin panel, such as room booking management and equipment maintenance monitoring. These enhancements empower administrators to manage club resources and operations efficiently.

Notification System: Developed a notification system to keep members and trainers informed of important updates and changes regarding their sessions and activities.

Room Booking Management: Created functionalities for booking and managing rooms within the fitness facility, enhancing the organization of training sessions and events.