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Comprehensive Fitness Class Scheduling and Booking System (FitPro) – Detailed Description

Overview:

FitPro is a user-friendly platform designed to streamline the process of scheduling and booking fitness classes. It caters to both fitness enthusiasts and administrators of fitness centers by offering a seamless interface for managing class schedules, bookings, and user accounts. With a dedicated admin dashboard, fitness center managers can efficiently oversee class availability, instructor assignments, and booking statistics.

Key Features:

1. User Registration:

- Simple user sign-up process with email verification and profile creation.
- User profile management, including preferences for fitness goals and favorite class types.
- Option to store payment methods securely for quick booking.

2. Fitness Class Scheduling:

- Dynamic class schedule with real-time updates on class availability.
- Search and filter options based on class type, instructor, and time.
- Supports various types of fitness classes, including yoga, pilates, strength training, and cardio.
- Allows users to view detailed class descriptions, duration, and required equipment.

3. Booking System:

- One-click booking for registered users with confirmation notifications.
- Waitlist functionality for fully booked classes with automatic notifications if a slot becomes available.
- Option to cancel or reschedule bookings within a specified timeframe.
- Booking history for users to track attended classes and upcoming reservations.

4. Admin Dashboard:

- Centralized control for managing class schedules, instructors, and user bookings.
- Analytics and reports on class attendance, booking trends, and revenue.
- Customizable settings for maximum class capacity, waitlist limits, and cancellation policies.
- Instructor management, including assignment to specific classes and availability settings.

Project Requirements:

- **Backend:** .NET Core MVC/API **IDE:** VS Code
- **FrontEnd:** Javascript, JQuery and KendoUI
- **Database:** PostgreSQL (without Entity Framework)
- **Other Tools:** Redis and RabbitMQ for notifications, ElasticSearch for search.