Music App Development Assignment

Assignment: Build a Music App

Objective:

Build a full-featured Music App where users can sign in, view artists, and book appointments with available artists.

Requirements:

1. User Sign In:

- Implement secure sign-in and sign-up functionality.

- Users should be authenticated to access the application.

2. User Roles:

- Implement different roles: Admin, Artist, and Regular User.

- Admin can manage users and artists.

- Artists can set their availability and manage appointments.

- Regular users can view artist availability and book appointments.

3. Artist Management:

- Admin can add, update, and delete artist profiles.

- Artist profiles should include name, genre, experience, and availability.

4. Appointment Booking:

- Users should be able to view available time slots and book appointments with artists.

- Artists should be able to approve, reject, or reschedule appointments.

- Users should get confirmation for their booking.

5. Technology Stack (Suggested):

- Frontend: React, Angular, or any modern framework

- Backend: Node.js, Django, or ASP.NET Core

- Database: MySQL, PostgreSQL, or MongoDB

6. Additional Features (Optional):

- Notifications for booking confirmation and reminders.

- User reviews and ratings for artists.

- Integration with a calendar service (e.g., Google Calendar).

Deliverables:

- Source code uploaded to GitHub.

- Screenshots or screen recording demonstrating the features.

- Documentation with instructions on how to run the project.

Deadline:

- Submit the project within 2 weeks from the assignment date.

7. Enhanced Features:

- Search and Filter Artists:

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Allow users to search for artists by name, genre, or availability.

Implement filters such as genre, rating, and experience level.

- In-App Chat System:

  Allow users to chat with artists before booking.

  Provide moderation and blocking capabilities.

- Artist Portfolio:

  Each artist should have a portfolio page with audio samples, videos, and achievements.

- Payment Integration:

  Integrate a payment gateway (e.g., Stripe, PayPal) for paid appointments.

  Include payment history and invoices in user profiles.

- Appointment History:

  Allow users to view their past and upcoming appointments.

  Artists can also track their scheduled sessions.

- Admin Dashboard:

  Admins should have a dashboard to view statistics such as the number of bookings, active users, and artist performance.

- Mobile Responsiveness:

  Ensure the app is responsive and works seamlessly on mobile devices.

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- Accessibility Features:

  Implement accessibility features such as screen reader support and keyboard navigation.

- Security Measures:

  Implement role-based access control, rate limiting, and data encryption to protect user data.

- API Documentation:

  Provide API documentation using Swagger or Postman collections.

Evaluation Criteria:

- Functionality and completeness of features

- Code quality and best practices

- User interface and user experience

- Innovation and creativity

- Proper documentation and instructions