1

Shared Workspace Management

**Creating a full-stack application for ShareSpace is a comprehensive platform designed to streamline the management of shared workspaces.**

Core Features

1. **User Authentication and Profiles:**
   * Secure registration and login.
   * Profile management for tracking bookings, preferences, and usage history.
2. **Workspace Management:**
   * Admin dashboard to manage workspace availability, bookings, and resources.
   * Tools for adding and updating workspace details (photos, amenities, rules).
3. **Booking System:**
   * Real-time booking system for reserving workspaces, meeting rooms, and other facilities.
   * Calendar view for managing and viewing booking schedules.
4. **Resource Allocation:**
   * Inventory management for workspace resources (e.g., projectors, desks, chairs).
   * Reservation system for additional resources and equipment.
5. **Payment Integration:**
   * Secure payment gateway for processing booking fees and membership subscriptions.
   * Invoice generation and payment history tracking.

2

Traders Management System

**Creating a full-stack application for a Traders Management System to allow exporters of small consignments to find and book available spaces in partially filled cargo containers involves developing a platform that connects exporters with shipping companies or container owners.**

Core Features

1. **User Authentication and Profiles**
   * Allow exporters and shipping companies to register, log in, and manage their profiles.
   * Collect user information such as contact details, business information, and preferences.
2. **Container Space Listing**
   * Enable shipping companies to list available spaces in partially filled cargo containers.
   * Include details such as container size, available space, destination, departure date, and price.
3. **Search and Booking**
   * Allow exporters to search for available container spaces based on criteria such as destination, departure date, and container size.
   * Enable booking of available spaces and provide a booking confirmation.
4. **Shipment Tracking**
   * Implement a system for tracking shipments from booking to delivery.
   * Provide real-time updates on the status of shipments and notifications to users.
5. **Payment Integration**
   * Integrate payment gateways (e.g., Stripe, PayPal) for handling booking fees and transactions.
   * Provide invoicing, receipts, and payment confirmations.

3

E-Waste Management System

**Creating a full-stack application for an E-Waste Management System involves developing a platform to manage the collection, recycling, and disposal of electronic waste.**Core Features

1. **User Authentication and Profiles**
   * Allow users (individuals, businesses, recyclers) to register, log in, and manage their profiles.
   * Collect user information such as contact details, address, and e-waste disposal preferences.
2. **E-Waste Collection Requests**
   * Enable users to create e-waste collection requests specifying items to be disposed of, quantities, and preferred pickup dates.
   * Provide a scheduling system for booking collection slots.
3. **Recycler and Disposal Facility Listings**
   * Allow recyclers and disposal facilities to list their services, including types of e-waste accepted, processing methods, and service areas.
   * Enable users to search for and view recycler profiles and services.
4. **Payment Integration**
   * Integrate payment gateways (e.g., Stripe, PayPal) for handling fees associated with e-waste collection and recycling services.
   * Provide invoicing, receipts, and payment confirmations.

4

Event Orchestrator

**An "Event Orchestrator" application is designed to manage and coordinate various aspects of organizing events, ensuring smooth execution from planning to post-event activities. Here are key features and components typically included in a full-stack application for an Event Orchestrator**

General Features:

1. **Event Creation and Management**
   * Create new events with details such as name, date, time, location, description, and categories.
   * Edit and update event information as needed.
   * Set event status (e.g., draft, published, canceled).
2. **Participant Management**
   * Allow participants to register online.
   * Manage attendee lists, registrations, and check-in status.
   * Generate attendee badges and QR codes.
3. **Task and Workflow Management**
   * Assign tasks to team members or volunteers.
   * Set deadlines, priorities, and task dependencies.
   * Workflow automation for task notifications, reminders, and approvals.
4. **Ticketing and Payments**
   * Online ticket sales with multiple ticket types (e.g., general admission, VIP).
   * Integration with payment gateways (e.g., Stripe, PayPal) for secure transactions.
   * Manage refunds, discounts, and promotional codes.
5. **Venue and Resource Management**
   * Manage venue bookings, layouts, and seating arrangements.
   * Coordinate with vendors (e.g., catering, audio-visual) and track vendor contracts.
   * Inventory management for event supplies and materials.

5

Out of home advertising System (OOH)

**Creating a full-stack Out of Home (OOH) advertising system involves developing a platform that connects advertisers with outdoor advertising spaces such as billboards, digital screens, and transit ads.**

**Core Features**

1. **User Authentication and Profiles**
   * Allow advertisers, ad space owners, and administrators to register, log in, and manage their accounts.
   * Collect user information including contact details, company information, and payment preferences.
2. **Advertising Space Listings**
   * Enable ad space owners to list their available spaces with details such as location, dimensions, pricing, audience demographics, and availability periods.
   * Provide a user-friendly interface for searching, filtering, and viewing ad space listings.
3. **Ad Campaign Management**
   * Allow advertisers to create, manage, and schedule ad campaigns targeting specific locations, demographics, and timeframes.
   * Include features for uploading ad creatives, setting campaign budgets, and monitoring performance metrics.
4. **Real-Time Booking and Availability**
   * Implement real-time availability updates for ad spaces based on bookings, reservations, and scheduling.
   * Provide instant booking confirmations and availability calendars.
5. **Payment Integration**
   * Integrate payment gateways (e.g., Stripe, PayPal) for secure online payments, invoicing, and billing.
   * Handle transaction processing, invoicing, receipts, and payment confirmations.

6

Pet Boarding Management

**Creating a full-stack application for pet boarding management involves developing both the frontend and backend components to manage pet bookings, user profiles, payments, and administrative tasks.**

**Core Features**

1. **User Authentication and Profiles**
   * Allow users (pet owners, administrators) to register, log in, and manage their accounts.
   * Collect user information such as contact details, pet information, and preferences.
2. **Pet Booking Management**
   * Enable pet owners to book boarding services for their pets by specifying dates, duration, and any special requirements.
   * Provide availability calendars for different boarding facilities or services.
3. **Pet Profiles and Medical Records**
   * Allow pet owners to create profiles for their pets with details like name, breed, age, medical history, vaccinations, and dietary preferences.
   * Upload and store medical records and vaccination certificates securely.
4. **Availability and Reservations**
   * Manage availability of boarding facilities and services based on capacity and scheduling.
   * Handle reservations, confirmations, cancellations, and waitlists.
5. **Payment Integration**
   * Integrate payment gateways (e.g., Stripe, PayPal) to facilitate secure online payments for bookings.
   * Provide users with payment confirmation and receipts.

Cultivating Human Connections and Mental Wellness in the Digital Age

**Create full-stack application focused on cultivating human connections and promoting mental wellness in the digital age**

Core Features

1. ​**User Authentication and Profiles**
   * User registration and login with email/password or social media.
   * User profiles with customizable information like interests, goals, and preferred communication styles.
2. **Community Building**
   * Creation of interest-based communities or groups.
   * Discussion forums within communities for users to engage in conversations.
3. **Mental Wellness Resources**
   * Curated collection of articles, videos, podcasts, and online courses related to mental health and well-being.
   * Integration with mental health professionals for advice and guidance.
4. **Events and Workshops**
   * Schedule and host virtual events, workshops, and webinars on mental wellness topics.
   * calendar integration for users to keep track of upcoming events.
5. **Support and Counseling**
   * Access to online counseling sessions with licensed therapists or counselors.
   * Peer support groups for users to connect and share experiences

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Remote Assistance Locator

**Creating a Remote Assistance Locator system involves integrating technologies that facilitate efficient communication, coordination, and support between users needing assistance and service providers.**

Core Features

1. **User Authentication and Profile Management**
   * Secure login and registration for both users and service providers.
   * User profiles with contact information, preferences, and service history.
2. **Location-Based Service Request**
   * Users can initiate service requests specifying their current location and type of assistance needed (e.g., technical support, medical assistance).
   * Integration with GPS or geolocation services to accurately pinpoint user locations.
3. **Real-Time Service Provider Matching**
   * Algorithm to match service requests with nearby and available service providers based on location, availability, and expertise.
   * Notification system to alert nearby service providers about new service requests.
4. **Service Request Tracking**
   * Dashboard for users to track the status of their service requests and communicate updates with service providers.
   * Automated notifications for important updates, such as service provider arrival time or delays.

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Real time multi user collaboration To-Do List Application

**Creating a real-time multi-user collaboration todo list application involves integrating features that allow multiple users to work together on tasks simultaneously**

**Key Features**

1. **User Authentication and Access Control**
   * Secure user registration and login system.
   * Role-based access control (RBAC) to define permissions (e.g., create, edit, delete tasks).
2. **Real-Time Task Updates**
   * **Live Collaboration:** Users can see updates in real-time when tasks are created, edited, or completed.
   * **Presence Indicators:** Display online/offline status and active users currently viewing or editing tasks.
3. **Task Management**
   * **Create and Edit Tasks:** Users can create new tasks, set due dates, assignees, priority levels, and descriptions.
   * **Task Comments:** Allow users to comment on tasks for discussion or updates.
   * **Task Assignments:** Assign tasks to specific users and notify them of new assignments.
4. **Collaboration Features**
   * **Real-Time Editing:** Enable simultaneous editing of tasks by multiple users with updates reflected instantly for all participants.
   * **Conflict Resolution:** Implement conflict resolution mechanisms to handle concurrent edits and prevent data loss (e.g., last writer wins, merge changes).
5. **Search and Filters**
   * **Advanced Search:** Enable users to search tasks by title, assignee, due date, etc.
   * **Filters:** Provide options to filter tasks by status (e.g., incomplete, completed), priority, or assignee.

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Furniture Renting

**Creating a full-stack application for furniture renting involves developing both the frontend and backend components to manage user interactions, inventory management, payments, and booking processes.**

**Core Features**

1. **User Authentication and Profiles**
   * Allow users to register, log in, and manage their accounts.
   * Enable users to create profiles, update information, and view rental history.
2. **Furniture Listings**
   * Display a catalog of available furniture items for rent.
   * Include details such as item descriptions, rental prices, availability status, and high-quality images.
3. **Search and Filter**
   * Implement search functionality to allow users to find specific furniture items based on keywords, categories, or attributes.
   * Provide filtering options for price range, item type, location, etc.
4. **Booking and Reservation**
   * Allow users to select desired rental dates and add items to their cart or wishlist.
   * Implement a booking system to confirm reservations and manage availability calendars.
5. **Payment Integration**
   * Integrate payment gateways (e.g., UPI, Stripe) to facilitate secure online payments for rentals.
   * Provide users with payment confirmation and receipts.

Smart Education Platform for Personalized Learning

**Creating a full stack application for Smart Education Platform for Personalized Learning**

Core Features

1. **User Authentication and Authorization**
   * **Secure Registration/Login**: Implement secure login for different user roles (students, teachers, admin) with role-based access control.
   * **OAuth Integration**: Enable users to log in using social media accounts (e.g., Google, Facebook).
2. **Interactive and Engaging Content**
   * **Multimedia Lessons**: Include videos, interactive simulations, quizzes, and games to make learning engaging.
   * **Collaborative Tools**: Provide tools for group projects, discussions, and peer reviews.
   * **Gamification**: Implement gamification elements such as badges, leaderboards, and rewards to motivate students.
3. **Data Analytics and Reporting**
   * **Performance Analytics**: Provide detailed analytics on student performance, identifying strengths and areas for improvement.
   * **Teacher Dashboards**: Equip teachers with dashboards to monitor class performance, track individual student progress, and customize lesson plans.
   * **Parent Access**: Allow parents to view their child's progress and receive updates on their learning journey.
4. **Resource Management**
   * **Content Library**: Maintain a library of educational resources, including textbooks, research papers, and supplementary materials.
   * **Assignment Management**: Enable teachers to create, distribute, and grade assignments digitally.
   * **Schedule Management**: Provide tools for managing class schedules, deadlines, and important events.

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Tackling Public Litter: Application for Efficient Garbage Management

**Creating a full stack application for efficient garbage management to tackle public litter can significantly improve urban cleanliness and resource management**

Core Features

1. **User Authentication and Authorization**
   * Secure login system for different user roles: residents, garbage collectors, and administrators.
   * Role-based access control ensuring appropriate access to features.
2. **Reporting System**
   * Users can report litter hotspots by uploading photos and descriptions.
   * Geotagging feature to pinpoint exact locations on a map.
3. **Task Assignment and Management**
   * Admins can assign reported litter cases to nearby garbage collectors.
   * Track progress of cleanup tasks in real-time.
   * Notification system to inform collectors of new assignments.
4. **Garbage Collection Scheduling**
   * Residents can view schedules for regular garbage collection.
   * Option for residents to request special pickups for bulky items or hazardous waste.

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Diet Recommendation System

**Creating a diet recommendation system can be a highly impactful project, addressing personalized nutrition and health goals**

Core Features

1. **User Authentication and Authorization**
   * Secure login system for users and admins.
   * Role-based access control to ensure data privacy and security.
2. **User Profile Management**
   * Detailed user profiles including age, gender, weight, height, dietary preferences, allergies, and health goals.
   * Option to update personal information and health metrics.
3. **Personalized Diet Plans**
   * Customized meal plans based on user profiles and dietary preferences.
   * Daily, weekly, and monthly meal suggestions.
   * Calorie, macronutrient (protein, fat, carbs), and micronutrient (vitamins, minerals) breakdown.
4. **Nutritional Database**
   * Comprehensive database of foods with detailed nutritional information.
   * Search and filter functionality to find specific foods or recipes.

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Train Comfort Manager: Streamlining Bed Roll Distribution for Passenger Comfort

**Creating a "Train Comfort Manager" application to streamline bed roll distribution for passenger comfort is a novel and practical idea.**

Core Features

1. **User Authentication and Authorization**
   * Secure login system for different user roles: passengers, train staff, and administrators.
   * Role-based access control to ensure data privacy and security.
2. **Passenger Profile Management**
   * Detailed passenger profiles including travel history, preferences, and special requests.
   * Option to update personal information and comfort preferences.
3. **Bed Roll Reservation System**
   * Passengers can reserve bed rolls during ticket booking or after.
   * Confirmation notifications for reserved bed rolls.
   * Real-time inventory updates for available bed rolls.
4. **Inventory Management**
   * Track the stock of bed rolls at different train stations and on trains.
   * Automated alerts for low inventory levels.
   * Historical data analysis for inventory optimization.

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Interactive map application for real time crime reporting

**Creating a full stack application for Interactive map web application for real time crime reporting**

Core Features

1. **User Authentication and Authorization**
   * **User Registration/Login**: Secure login for users (citizens, police, admin) with different access levels.
   * **OAuth Integration**: Allow users to log in using social media accounts (e.g., Google, Facebook).
2. **Real-Time Crime Reporting**
   * **Report Submission**: Users can submit crime reports with details such as type of crime, location, time, description, and optional media (photos/videos).
   * **Geolocation**: Automatically fetch user's location for accurate reporting.
   * **Anonymous Reporting**: Option for users to report crimes anonymously.
3. **Interactive Map**
   * **Map Display**: Display a real-time, interactive map showing crime reports.
   * **Clustering**: Group nearby crime reports to prevent map clutter.
   * **Heatmaps**: Show intensity of crime in different areas using heatmaps.
4. **Search and Filter**
   * **Search Functionality**: Users can search for reports by location, type of crime, date, etc.
   * **Filter Options**: Allow users to filter crime reports based on categories like type, date range, severity, etc.

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Level Up Your Fitness

**Creating a full stack application titled "Level Up Your Fitness" can be an innovative and comprehensive platform for users aiming to improve their fitness levels. Here's a detailed list of features and functionalities for such an application:**

Core Features

1. **User Authentication and Authorization**
   * Secure login system for users, trainers, and administrators.
   * Role-based access control to ensure data privacy and security.
2. **User Profile Management**
   * Detailed user profiles including age, gender, weight, height, fitness goals, and health conditions.
   * Option to update personal information and track progress over time.
3. **Personalized Workout Plans**
   * Custom workout plans based on user profiles and fitness goals.
   * Different levels of difficulty (beginner, intermediate, advanced).
   * Video tutorials and step-by-step instructions for each exercise.
4. **Nutrition and Diet Plans**
   * Personalized diet plans based on user’s fitness goals and dietary preferences.
   * Detailed nutritional information for each meal.
   * Recipes and meal prep instructions.
5. **Activity Tracking**
   * Log workouts, track progress, and analyze performance.
   * Visual representation of daily, weekly, and monthly activity.

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Evolving Live Music Experience

Creating a full stack application to enhance the live music experience can bridge the gap between artists and fans, providing a richer, more interactive experience. Here’s a detailed list of features and functionalities for such an application:

Core Features

1. **User Authentication and Authorization**
   * **User Registration/Login**: Secure registration and login for both fans and musicians.
   * **OAuth Integration**: Allow users to log in using social media accounts (e.g., Google, Facebook).
2. **User Profiles**
   * **Fan Profiles**: Fans can create profiles, follow artists, and manage preferences.
   * **Musician Profiles**: Musicians can create profiles, upload music, and schedule live events.
3. **Live Music Streaming**
   * **Live Streaming**: Musicians can stream live performances.
   * **Real-Time Chat**: Fans can interact with musicians and other fans during live streams.
4. **Event Discovery**
   * **Personalized Recommendations**: AI-powered recommendations for concerts, new music, and artists based on user preferences and behavior.
   * **Search and Filter**: Allow users to search for events by genre, artist, date, etc.
5. **Ticketing System**
   * **Event Tickets**: Musicians can sell tickets for their live events.
   * **Secure Payments**: Integration with payment gateways for ticket purchases.

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Secure Examination Paper Distribution System

**Creating a secure examination paper distribution system is essential to maintain the integrity and confidentiality of exam**

Core Features

1. **User Authentication and Authorization**
   * Secure login system for different user roles: administrators, examiners, and invigilators.
   * Role-based access control to ensure data privacy and security.
2. **Secure Paper Upload and Management**
   * Administrators and examiners can upload examination papers.
   * Papers are encrypted upon upload to ensure confidentiality.
   * Version control to manage updates and revisions to papers.
3. **Access Control and Distribution**
   * Granular access control to ensure only authorized personnel can access specific papers.
   * Scheduled distribution of papers to ensure they are available only at the specified times.
   * Logging of all access attempts for audit purposes.
4. **Exam Paper Viewing and Download**
   * Secure interface for authorized users to view and download examination papers.
   * Watermarking and tracking to prevent unauthorized sharing.
   * Time-limited access to downloaded papers to ensure they are only accessible during the examination period.

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Organizational Grievance Support System

1. **User Authentication and Authorization**
   * User Registration/Login: Secure registration and login for employees and administrators.
   * Role-Based Access Control: Different roles (employees, HR, administrators) with specific permissions.
2. **Grievance Submission**
   * Employees can submit grievances detailing their concerns, attaching relevant documents if needed.
   * Form Fields: Include fields for grievance type, description, department, severity, etc.
3. **Grievance Tracking**
   * Track the status of grievances from submission to resolution.
   * Notifications: Notify employees about the status updates of their grievances.
4. **Admin Dashboard**
   * Admins can view all submitted grievances, assign them to HR personnel or specific departments for resolution.
   * Dashboard Overview: Provide an overview of pending, resolved, and ongoing grievances.
5. **Communication Channels**
   * Built-in Messaging: Allow communication between employees, HR, and administrators regarding grievances.
   * Threaded Discussions: Organize discussions related to each grievance for clarity and context.

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Sports Infrastructure Management

**Creating a full-stack application for Sports Infrastructure Management involves building a platform that facilitates the management, scheduling, maintenance, and utilization of sports facilities.**

Core Features

1. **User Authentication and Authorization**
   * User Registration/Login: Secure registration and login for administrators, facility managers, and users.
   * Role-Based Access Control: Different roles with specific permissions (e.g., admin, manager, user).
2. **Facility Management**
   * **Facility Listings**: List all available sports facilities with details like location, amenities, availability, etc.
   * **Booking System**: Allow users to book facilities based on availability and requirements.
   * **Reservation Approval**: Admin or manager approval for facility reservations.
3. **Scheduling and Calendar**
   * **Event Calendar**: Display a calendar with scheduled events, bookings, maintenance tasks, etc.
   * **Availability Check**: Allow users to check facility availability for specific dates and times.
4. **Maintenance Management**
   * **Maintenance Scheduling**: Schedule regular maintenance tasks for sports facilities.
   * **Maintenance Logs**: Maintain logs of maintenance activities, repairs, and inspections.
5. **Integrated Payment System**
   * **Online Payments**: Allow users to make online payments for facility bookings.
   * **Payment Tracking**: Track payment statuses and history for each booking.

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