Training Management Platform - Project Documentation

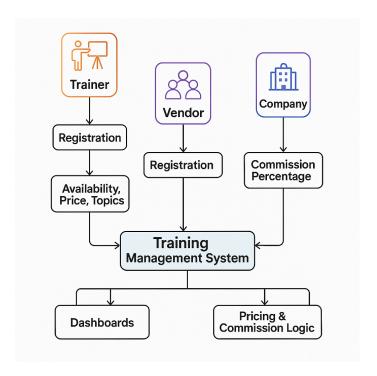
Team Members

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1. Project Overview

The **Training Management Platform** is a web-based system designed to connect **trainers** with **companies** through **vendors**, who act as intermediaries. Trainers can register to offer training services, while vendors manage networks of trainers and earn commissions. The platform provides tailored dashboards for each user role (**Trainer, Vendor, Company**) to manage their operations effectively. The platform is developed using **Angular** for the frontend, **Express.js** for the backend, and **MongoDB** as the database.

1.1 System Architecture Diagram



2. User Roles

- Trainer: Offers training services by registering their expertise, availability, pricing, and budget.
- **Vendor**: Acts as a middleman, registering with a commission percentage and managing trainer relationships.
- **Company**: Posts training requirements, approves vendors/trainers, and oversees engagements and analytics.

3. Key Features

Trainer Module

 Registration and Login: Secure login with professional profile setup (topics, pricing, budget).

- **Profile Management**: Add qualifications, experience, and topics of expertise.
- **Training Submissions**: Submit available training sessions with pricing and budget.
- Booking and Vendor Interaction: Track training bookings and vendor partnerships.

Vendor Module

- **Registration and Login**: Register with company details and commission percentage (requires company approval).
- Commission Management: Set commission per booking.
- Trainer Network Management: Discover and manage trainers.
- Booking Monitoring: Track and manage bookings and commissions.

Company Module

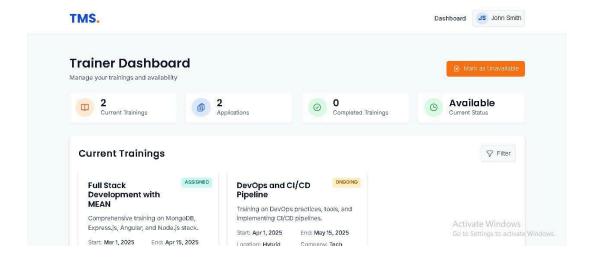
- Manage Users (Trainers and Vendors): View and manage vendor and trainer profiles.
- **Post Training Requirements**: Companies post training needs that vendors and trainers can respond to.
- Reporting and Analytics: View activity logs, booking reports, trainer/vendor engagement.
- Platform Settings: Configure platform rules like minimum training budgets, vendor commissions, and access permissions.

4. Tech Stack

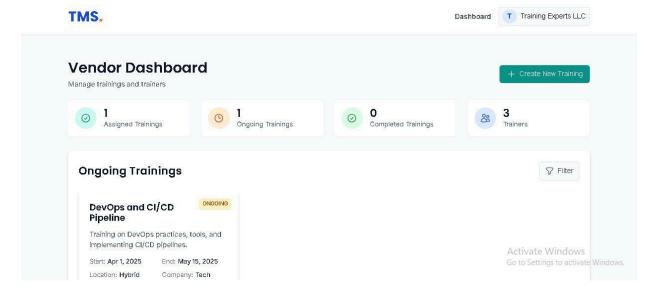
- Frontend: Angular (with Angular Material for UI)
- Backend: Express.js (Node.js framework)
- Authentication: JWT (JSON Web Token) based secure authentication
- **Database**: MongoDB (NoSQL document database)

5. Dashboards

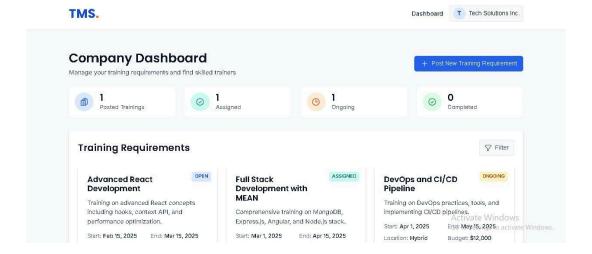
5.1 Trainer Dashboard Screenshot



5.2 Vendor Dashboard Screenshot



5.3 Company Dashboard Screenshot



6. Registration Flow

- **Trainer Registration**: Register with personal and professional details.
- Vendor Registration: Submit company and commission info.
- Company Approval: Company reviews and approves/rejects vendor and trainer registrations.
- Access Dashboards: Once approved, users access their respective dashboards.

7. Pricing & Commission Logic

- **Trainer Pricing**: Set by the trainers, visible to vendors and companies.
- Vendor Commission: Set by vendor, applied to successful bookings.
- Commission Tracking: Automatically calculated and tracked for transparency and payments.

8. Functional Requirements

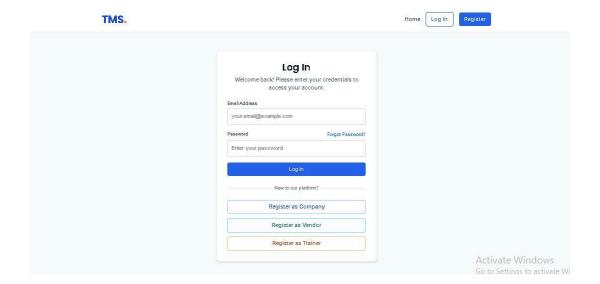
- JWT-based Authentication for Trainers, Vendors, and Companies.
- Role-specific Dashboards for personalized management tools.
- Trainer & Vendor Profile Management including training listings and commission settings.
- Company Posting Tools for training requirements.
- Booking Mechanism to connect companies, vendors, and trainers.
- Approval Workflows for user validation by companies.
- Commission Calculation & Reporting for financial tracking.
- Advanced Analytics for performance monitoring by companies.

9. Non-Functional Requirements

- Scalability: MongoDB supports large-scale user and data growth.
- Security: JWT, data encryption, and role-based access controls.
- **Performance**: Efficient request handling and low-latency operations.
- **Usability**: Intuitive Angular Material UI and responsive design.
- Availability: High uptime target (99.9%).
- Maintainability: Modular codebase using Angular + Express + MongoDB.
- Compatibility: Works on major browsers and devices.

10. Screenshots of the Working Application

10.1 Login Page



10.2 Home page

