**📚 Learning Tracker**

A modern web application designed to track educational progress and manage online courses effectively. This platform offers a seamless experience for learners and educators to interact with courses, track progress, and manage profiles in a unified system.

**Features**

* **User Authentication**  
  Secure signup and login using JWT-based authentication.
* **Course Enrollment & Tracking**  
  Users can enroll in courses and track their completion status through video-based lessons and interactive progress logs.
* **Video Lesson Viewing**  
  Integrated video players to allow users to watch lessons within the platform.
* **Personal Dashboard**  
  A user-friendly dashboard that provides insights into course progress, upcoming lessons, and learning statistics.
* **Profile & Settings Management**  
  Users can manage personal details, change passwords, and customize their experience.

**Tech Stack**

**Frontend**

* **React** + **TypeScript**  
  For building dynamic and type-safe user interfaces.
* **Tailwind CSS**  
  Utility-first CSS framework for styling.
* **Shadcn/ui**  
  Beautiful and accessible UI components tailored for Tailwind and React.

**Backend**

* **Express.js** + **TypeScript**  
  Lightweight and fast server framework with strong typing.

**Database**

* **SQLite**  
  Lightweight and embedded database.
* **Drizzle ORM**  
  Type-safe ORM for interacting with SQLite.

**Project Structure**

/client # Frontend React application

/server # Backend Express.js application

/shared # Shared TypeScript types and validation schemas

**Demo Video**



**Environment Variables**

Create a .env file in the /server directory and define the following:

JWT\_SECRET=your\_jwt\_secret\_key

DATABASE\_URL=file:./dev.db

* JWT\_SECRET: A strong secret key used to sign and verify JWT tokens.
* DATABASE\_URL: Path to your SQLite database file.

**Future Improvements**

* Admin dashboard for managing courses and users
* Gamification (badges, levels)
* Quiz and assessment modules
* Email notifications and reminders