

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