**API Documentation or Integration Specifications**

Our Product API suite provides a secure, RESTful interface to support core platform functionalities such as user management, tutor discovery, session booking, and AI-driven personalization. All endpoints are protected with JWT-based authentication to ensure secure access.

Users can register and authenticate via /api/register and /api/login endpoints. Once authenticated, students can explore and filter available tutors through the /api/tutors endpoint, and view their personal profiles using /api/students/{id}.

Session management is handled through the /api/sessions endpoints, enabling booking and retrieval of session details. The /api/reports endpoint facilitates the generation of progress reports after each session, supporting continuous learning insights.

A key innovation is the integration of AI capabilities via the /api/ai/recommendations endpoint, which leverages machine learning to suggest personalized tutor matches and topics based on a student's learning goals.

This API layer is designed for modular integration with frontend clients, mobile apps, or third-party systems, ensuring scalability and maintainability of the Edu Portal ecosystem.

**Sample API Endpoints**

* POST /api/register — Register new user
* POST /api/login — Authenticate user
* GET /api/tutors — List/search tutors
* GET /api/students/{id} — Get student profile
* POST /api/sessions — Book a session
* GET /api/sessions/{id} — Get session details
* POST /api/reports — Generate/report progress
* GET /api/ai/recommendations — Get AI-driven tutor/topic matches