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Flashcard Learning API

This is the backend API for a flashcard learning web application. It provides endpoints for user authentication, flashcard set management, topic handling, and AI-assisted flashcard generation.

Features

- User `authentication (register, login, logout)
- Flashcard set CRUD operations
- Topic management
- Al-assisted flashcard generation
- Protected and public routes

Technologies Used

- Node.js
- Express.js
- Passport.js for authentication
- PostgreSQL (assumed based on typical usage with Sequelize)
- Sequelize ORM (assumed based on typical Express.js stack)

► API Routes

Authentication Routes

- POST /api/auth/register: Register a new user
- POST /api/auth/login: User login
- POST /api/auth/logout: User logout
- GET /api/auth/protected: Test protected route
- GET /api/auth/get-users: Get all users (likely admin only)

Flashcard Set Routes

- GET /api/ai/flashcard-sets/:id: Get a specific flashcard set
- GET /api/ai/dashboard/flashcard-sets: Get user's flashcard sets
- POST /api/ai/flashcard-sets: Create a new flashcard set with flashcards
- PUT /api/ai/flashcard-sets/:id/update: Update a flashcard set
- DELETE /api/ai/flashcard-sets/:id: Delete a flashcard set

Topic Routes

- POST /api/ai/topics: Create a new topic
- GET /api/ai/topics/:id: Get a specific topic
- GET /api/ai/topics: Get all topics
- GET /api/ai/topics-dashboard/:id: Get topic dashboard
- DELETE /api/ai/topics/:id: Delete a topic

Flashcard Routes

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- POST /api/ai/flashcards: Generate new flashcards using Al
- GET /api/ai/flashcards/:id: Get a specific flashcard

Setup and Installation

- 1. Clone the repository
- 2. Install dependencies: npm install
- 3. Set up environment variables in a .env file
- 4. Initialize the database
- 5. Start the server: npm start

Environment Variables

- NODE_ENV: Set to 'production' for production environment
- SERVER_PORT: Port number for the server
- CLIENT_URL: URL of the frontend client for CORS
- Database connection details (specifics depend on your setup)

Authentication

The API uses JSON Web Tokens (JWT) for authentication. Protected routes require a valid JWT to be included in the Authorization header of the request.

Error Handling

The API includes centralized error handling middleware to process and return appropriate error responses.

Al Integration

The API includes routes for AI-assisted flashcard generation. The specific AI model and integration details should be implemented in the aiController.

Contributing

[Include guidelines for contributing to the project]

License

[Specify the license under which this project is released]