

Quick Beaver Dive API

This is the backend API for the Quick Beaver Dive application, built with FastAPI and MongoDB.

Prerequisites

- Python 3.8+
- MongoDB instance (local or Atlas)

Setup

1. Navigate to the project root directory:

```
cd quick-beaver-dive
```

2. Create a virtual environment:

```
python -m venv venv
```

3. Activate the virtual environment:

- Windows:

```
.\venv\Scripts\Activate.ps1
```

- macOS/Linux:

```
source venv/bin/activate
```

4. Install dependencies:

```
pip install -r backend/requirements.txt
```

Configuration

1. Create a `.env` file in the `backend` directory (i.e., `backend/.env`).

2. Add the following environment variables:

```
MONGODB_URI=mongodb://localhost:27017
DB_NAME=quick_beaver_dive
JWT_SECRET=your_super_secret_jwt_key_here
ACCESS_TOKEN_EXPIRE_MINUTES=30
CORS_ORIGINS=["http://localhost:5173"]
GEMINI_API_KEY=your_gemini_api_key_here
```

- Replace `your_super_secret_jwt_key_here` with a secure secret key.
- Replace `your_gemini_api_key_here` with your Google Gemini API key.
- Adjust `MONGODB_URI` if your database is hosted elsewhere.

Running the Server

To start the development server with hot-reload enabled:

```
uvicorn backend.main:app --reload
```

The API will be available at <http://localhost:8000>.

API Documentation

Once the server is running, you can access the interactive API documentation at:

- **Swagger UI:** <http://localhost:8000/api/v1/docs>
- **ReDoc:** <http://localhost:8000/api/v1/redoc>