

# Quick Beaver Dive API

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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>