Student Management API Documentation

Introduction

The Student Management API is a RESTful API designed for managing student information in an educational context. It provides various endpoints for creating, updating, deleting, and searching for student records.

Base URL

The base URL for all API endpoints is: http://localhost:5000 (for local development). For production, the base URL would be the actual server address.

Authentication

This API does not use session cookies for authentication. Instead, it relies on API key-based authentication or other mechanisms as per the specific deployment.

Requests and Responses

All requests and responses are in JSON format.

Sample Request

json

POST /api/students

{

"firstName": "John",

"lastName": "Doe",

"tel": "555-123-4567",

"email": "john@example.com",

"dept": "Computer Science"

}

Sample Response

json

{

"success": true,

"message": "Student created successfully",

"student": {

"firstName": "John",

"lastName": "Doe",

"tel": "555-123-4567",

"email": "john@example.com",

"dept": "Computer Science"

}

}

API Endpoints

Create a Student

URL: /api/students

Method: POST

Request Body:

json

{

"firstName": "string",

"lastName": "string",

"tel": "string",

"email": "string",

"dept": "string"

}

Response:

201 Created on success

400 Bad Request if request body is invalid

Get All Students

URL: /api/students

Method: GET

Response:

200 OK on success

Get Student by ID

URL: /api/students/:id

Method: GET

Response:

200 OK on success

404 Not Found if student with the given ID does not exist

Update Student

URL: /api/students/:id

Method: PUT

Request Body:

json

{

"firstName": "string",

"lastName": "string",

"tel": "string",

"email": "string",

"dept": "string"

}

Response:

200 OK on success

404 Not Found if student with the given ID does not exist

Delete Student

URL: /api/students/:id

Method: DELETE

Response:

204 No Content on success

404 Not Found if student with the given ID does not exist

Search Students

URL: /api/students/search

Method: POST

Request Body:

json

{

"searchTerm": "string"

}

Response:

200 OK on success

Sample Example

Create a Student

Request

json

POST /api/students

{

"firstName": "Alice",

"lastName": "Johnson",

"tel": "555-987-6543",

"email": "alice@example.com",

"dept": "Mathematics"

}

Response

json

{

"success": true,

"message": "Student created successfully",

"student": {

"firstName": "Alice",

"lastName": "Johnson",

"tel": "555-987-6543",

"email": "alice@example.com",

"dept": "Mathematics"

}

}

Environment Variables

Make sure to set the following environment variables for your project:

MONGODB\_URI = mongodb+srv://daryl777:sZXrPxFKaN8ykD35@cluster0.exdyeyn.mongodb.net/test

Username:daryl777

Password:sZXrPxFKaN8ykD35

Project Structure

The project is structured as follows:

├── public

│ ├── css

│ └── img

├── server

│ ├── config

│ ├── controllers

│ ├── models

│ └── routes

└── views

├── layouts

├── partials

└── student

Dependencies

The project uses various dependencies, and you can find them listed in the package.json file.

Conclusion

This documentation serves as a guide for using the Student Management API. If you encounter any issues or have questions, please refer to the API documentation in Postman for further details and testing.

Postman Collection

The Postman collection for the API can be found here.

For more information, please refer to the README.md.