

API Documentation

Overview

This documentation covers the API endpoints for the **Advising & Communication Module**. It includes authentication, user management, and appointment handling.

Base URL

`http://localhost:5000/api`

Authentication Endpoints

1 User Signup

Endpoint: `/auth/signup` **Method:** POST **Description:** Register a new user.

Request Body:

```
{
  "first_name": "John",
  "last_name": "Doe",
  "email": "johndoe@example.com",
  "password": "securepassword"
}
```

Success Response:

```
{
  "status": "success",
  "message": "User registered successfully"
}
```

Error Responses:

- 400 Bad Request: Missing fields or invalid email.
- 409 Conflict: Email already in use.

2 User Login

Endpoint: /auth/login **Method:** POST **Description:** Authenticate user and return a JWT token.

Request Body:

```
{
  "email": "johndoe@example.com",
  "password": "securepassword"
}
```

Success Response:

```
{
  "status": "success",
  "token": "eyJhbGciOiJIUzI1NiIsInR..."
}
```

Error Responses:

- 401 Unauthorized: Incorrect credentials.

User Management

3 Get User Profile

Endpoint: /users/{user_id} **Method:** GET **Description:** Retrieve a user's profile.

Headers:

```
{  
  "Authorization": "Bearer <token>"  
}
```

Success Response:

```
{  
  "id": 1,  
  "first_name": "John",  
  "last_name": "Doe",  
  "email": "johndoe@example.com"  
}
```

Error Responses:

- 404 Not Found: User not found.

Appointment Management

Book an Appointment

Endpoint: /appointments **Method:** POST **Description:** Schedule a new appointment.

Request Body:

```
{  
  "student_id": 1,  
  "advisor_id": 2,  
  "date": "2025-04-01",  
  "time": "10:00 AM",  
  "reason": "Course selection guidance"  
}
```

Success Response:

```
{
  "status": "success",
  "message": "Appointment booked successfully"
}
```

Error Responses:

- 400 Bad Request: Missing required fields.
- 409 Conflict: Advisor unavailable at the selected time.

5 View All Appointments

Endpoint: /appointments **Method:** GET **Description:** Retrieve all scheduled appointments.

Success Response:

```
[
  {
    "id": 1,
    "student_id": 1,
    "advisor_id": 2,
    "date": "2025-04-01",
    "time": "10:00 AM",
    "status": "Scheduled"
  }
]
```

6 Update an Appointment

Endpoint: /appointments/{appointment_id} **Method:** PUT **Description:** Modify an existing appointment.

Request Body:

```
{
  "date": "2025-04-02",
  "time": "11:00 AM"
}
```

Success Response:

```
{
  "status": "success",
  "message": "Appointment updated successfully"
}
```

7 Cancel an Appointment

Endpoint: /appointments/{appointment_id} **Method:** DELETE **Description:** Remove a scheduled appointment.

Success Response:

```
{
  "status": "success",
  "message": "Appointment canceled"
}
```

Error Responses:

- 404 Not Found: Appointment does not exist.

Error Handling

All errors return a standard response:

```
{
  "status": "error",
  "message": "Error description here"
}
```

}

Status Codes

- 200 OK: Successful request.
- 201 Created: Resource created.
- 400 Bad Request: Invalid input.
- 401 Unauthorized: Authentication required.
- 403 Forbidden: Access denied.
- 404 Not Found: Resource does not exist.
- 500 Internal Server Error: Unexpected issue.

Usage Examples

cURL Example: Get Appointments

```
curl -X GET "http://localhost:5000/api/appointments" \  
  -H "Authorization: Bearer <token>"
```

Conclusion

This API documentation provides a structured way to interact with the **Advising & Communication Module** endpoints. If you need further clarification, feel free to reach out!