**Online Apartment Rental System API Documentation**

Base URL

Base URL: https://api.apartmentrentalsystem.com

Authentication

Endpoint: /auth/login

Method: POST

Description: Authenticate user and obtain an access token.

Request:

Body:

username: User's username

password: User's password

Response:

access\_token: JWT token for authentication

Endpoint: /auth/logout

Method: POST

Description: Logout the user and invalidate the access token.

Headers:

Authorization: Bearer {access\_token}

User Registration

Endpoint: /users/register

Method: POST

Description: Register a new user.

Request:

Body:

username: User's username

password: User's password

Other registration details

Response:

message: Registration successful

Apartment Listings

Endpoint: /apartments

Method: GET

Description: Get a list of all apartments.

Query Parameters:

filter: Filter apartments based on criteria (e.g., Rental cost, 2BHK/3BHK, Floor space, rented out/Vacant)

Headers:

Authorization: Bearer {access\_token}

Response:

List of apartments

User Requests

Endpoint: /requests

Method: GET

Description: Get all requests made by registered users.

Headers:

Authorization: Bearer {access\_token}

Response:

List of user requests

Endpoint: /requests/submit

Method: POST

Description: Submit a request to rent an apartment.

Request:

Body:

apartment\_id: ID of the selected apartment

comments: Additional comments from the user

Headers:

Authorization: Bearer {access\_token}

Response:

message: Request submitted successfully

Admin Operations

Endpoint: /admin/apartments

Method: POST

Description: Add a new apartment.

Request:

Body:

Apartment details

Headers:

Authorization: Bearer {access\_token}

Response:

message: Apartment added successfully

Endpoint: /admin/apartments/{apartment\_id}

Method: PUT

Description: Update apartment details.

Request:

Body:

Updated apartment details

Headers:

Authorization: Bearer {access\_token}

Response:

message: Apartment details updated successfully

Endpoint: /admin/apartments/{apartment\_id}

Method: DELETE

Description: Remove an apartment.

Headers:

Authorization: Bearer {access\_token}

Response:

message: Apartment removed successfully

Endpoint: /admin/requests/{request\_id}/approve

Method: POST

Description: Approve a user request.

Headers:

Authorization: Bearer {access\_token}

Response:

message: Request approved successfully

Endpoint: /admin/requests/{request\_id}/deny

Method: POST

Description: Deny a user request.

Headers:

Authorization: Bearer {access\_token}

Response:

message: Request denied successfully

Logging Out

Endpoint: /auth/logout

Method: POST

Description: Logout from the system.

Headers:

Authorization: Bearer {access\_token}

Response:

message: Logout successful