

Hotel Lister API Guide

This guide documents the endpoints available in the Hotel Lister API, including authentication, hotel search, and bookmark functionality.

Authentication

Register a New User

- **URL:** `/api/auth/register/`
- **Method:** `POST`
- **Permissions:** AllowAny

Request Body:

```
{ "username": "your_username", "email": "your_email@example.com", "password":  
"your_password" }
```

- **Response:** User details with JWT tokens

Login

- **URL:** `/api/auth/login/`
- **Method:** `POST`
- **Permissions:** AllowAny

Request Body:

```
{ "username": "your_username", "password": "your_password" }
```

Response:

```
{ "refresh": "refresh_token", "access": "access_token" }
```

Refresh Token

- **URL:** `/api/auth/refresh/`
- **Method:** `POST`
- **Permissions:** AllowAny

Request Body:

```
{ "refresh": "your_refresh_token" }
```

- **Response:** New access token

User Profile

- **URL:** `/api/auth/profile/`
- **Method:** GET
- **Permissions:** IsAuthenticated
- **Headers:** Authorization: Bearer {access_token}
- **Response:** User profile information

List/Search Hotels

- **URL:** `/api/hotels/`
- **Method:** GET
- **Permissions:** AllowAny
- **Query Parameters:**
 - `search`: Search in name, description, location
 - `min_price`: Minimum price filter
 - `max_price`: Maximum price filter
 - `location`: Filter by location (partial match)
 - `name`: Filter by name (partial match)
 - `description`: Filter by description (partial match)
 - `star_rating`: Filter by exact star rating
 - `star_rating__gte`: Filter by minimum star rating
 - `star_rating__lte`: Filter by maximum star rating
 - `has_pool`: Filter by pool availability (true/false)
 - `ordering`: Sort results (e.g., `name`, `-star_rating`, `indicative_price`)

Get Hotel Details

- **URL:** `/api/hotels/{id}/`
- **Method:** GET
- **Permissions:** AllowAny
- **Response:** Detailed hotel information

Hotel Search by Location

- **URL:** `/api/search/hotels/`
- **Method:** GET
- **Permissions:** AllowAny
- **Query Parameters:**
 - `location`: Location to search for (required)
 - `min_price`: Minimum price filter
 - `max_price`: Maximum price filter

- **star_rating:** Filter by exact star rating
- **has_pool:** Filter by pool availability (true/false)
- **ordering:** Sort results (e.g., **name**, **-star_rating**)
- **Response:** List of hotels matching criteria
- **Note:** If hotels for a location don't exist, the API will generate sample data

Bookmark Management

List User Bookmarks

- **URL:** `/api/bookmarks/`
- **Method:** **GET**
- **Permissions:** IsAuthenticated
- **Headers:** Authorization: Bearer {access_token}
- **Response:** List of user's bookmarked hotels

Toggle Bookmark

- **URL:** `/api/bookmarks/toggle/`
- **Method:** **POST**
- **Permissions:** IsAuthenticated
- **Headers:** Authorization: Bearer {access_token}

Request Body:

```
{ "hotel_id": 1 }
```

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- **Response:**
 - If bookmark added: Bookmark details
 - If bookmark removed: `{"status": "removed"}`

API Documentation

Swagger UI

- **URL:** `/swagger/`
- **Method:** **GET**
- **Permissions:** AllowAny
- **Description:** Interactive API documentation with Swagger UI

Error Handling

The API returns appropriate HTTP status codes and error messages:

- **400 Bad Request:** Invalid input or missing required parameters
- **401 Unauthorized:** Authentication failed or token expired
- **500 Internal Server Error:** Server-side errors

Authentication Flow

1. Register a new user or login with existing credentials
2. Store the received access and refresh tokens
3. Include the access token in the Authorization header for protected endpoints
4. When the access token expires, use the refresh token to obtain a new access token

Example authenticated request header:

Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9...