

# API Documentation — Drug Management System

Base URL: `/api`

## Authentication:

- `register` and `login` are public.
- All other endpoints require **Bearer token** (`Authorization: Bearer {token}`) using Laravel Sanctum.

## 1. Register User

Endpoint: `POST /register` Description: Registers a new user.

### Request Body:

```
{
  "name": "John Doe",
  "email": "john@example.com",
  "password": "password123",
  "password_confirmation": "password123"
}
```

### Response (201 - Success):

```
{
  "status": "success",
  "message": "User registered successfully",
  "data": {
    "user": {
      "id": 1,
      "name": "John Doe",
      "email": "john@example.com",
      "created_at": "2025-08-16T09:00:00",
      "updated_at": "2025-08-16T09:00:00"
    },
    "token": "sanctum_token_here"
  }
}
```

### Error Responses (422 - Validation Error):

```
{
  "status": "error",
  "message": "Validation failed",
  "errors": {
    "email": ["The email has already been taken."]
  }
}
```

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## 2. Login User

**Endpoint:** POST /login **Description:** Authenticates a user and returns an access token.

**Request Body:**

```
{
  "email": "john@example.com",
  "password": "password123"
}
```

**Response (200 - Success):**

```
{
  "status": "success",
  "message": "Login successful",
  "data": {
    "user": {
      "id": 1,
      "name": "John Doe",
      "email": "john@example.com"
    },
    "token": "sanctum_token_here"
  }
}
```

**Error Responses (401 - Invalid Credentials):**

```
{
  "status": "error",
  "message": "Invalid email or password"
}
```

### 3. Logout User

**Endpoint:** POST /logout **Description:** Logs out the authenticated user.

**Headers:** Authorization: Bearer {token}

**Response (200 - Success):**

```
{
  "status": "success",
  "message": "Logout successful"
}
```

### 4. Search Drugs

**Endpoint:** GET /search-drugs **Description:** Searches for drugs using the RxNav API.

**Query Parameters:**

- query (string, required) — Drug name

**Example Request:**

```
GET /search-drugs?query=aspirin
```

**Response (200 - Success):**

```
{
  "status": "success",
  "message": "Drug search completed successfully",
  "data": {
    "count": 5,
    "items": [
      {
        "rxcai": "1001476",
        "name": "aspirin 325 MG Delayed Release Oral Tablet
[Ecpirin]",
        "baseNames": ["aspirin"],
        "doseForms": ["Delayed Release Oral Tablet"]
      },
      {
        "rxcai": "1052416",
        "name": "acetaminophen 250 MG / aspirin 250 MG / caffeine 65
MG Oral Tablet [Pamprin Max Formula]",
        "baseNames": ["aspirin", "acetaminophen", "caffeine"],

```

```
        "doseForms": ["Oral Tablet"]
      }
    ]
  }
}
```

#### Error Responses (429 - Too Many Requests):

```
{
  "status": "error",
  "message": "Too many requests. Please try again later."
}
```

## 5. Get User Drugs

**Endpoint:** GET /user-drugs **Description:** Retrieves drugs saved by the authenticated user.

**Headers:** Authorization: Bearer {token}

#### Response (200 - Success):

```
{
  "status": "success",
  "message": "User drugs fetched successfully",
  "data": [
    {
      "rxcul": "1001476",
      "name": "aspirin 325 MG Delayed Release Oral Tablet [Ecpirin]",
      "baseNames": ["aspirin"],
      "doseForms": ["Delayed Release Oral Tablet"]
    }
  ]
}
```

## 6. Add a User Drug

**Endpoint:** POST /user-drugs **Description:** Adds a drug to the authenticated user's list.

**Headers:** Authorization: Bearer {token}

#### Request Body:

```
{
  "rxcul": "1001476",
  "name": "aspirin 325 MG Delayed Release Oral Tablet [Ecpirin]",
  "baseNames": ["aspirin"],
  "doseForms": ["Delayed Release Oral Tablet"]
}
```

**Response (201 - Success):**

```
{
  "status": "success",
  "message": "Drug added to user list",
  "data": {
    "rxcul": "1001476",
    "name": "aspirin 325 MG Delayed Release Oral Tablet [Ecpirin]"
  }
}
```

**Error Responses (409 - Duplicate Drug):**

```
{
  "status": "error",
  "message": "Drug already exists in user list"
}
```

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## 7. Delete a User Drug

**Endpoint:** DELETE /user-drugs/{rxcul} **Description:** Removes a drug from the user's list.

**Headers:** Authorization: Bearer {token}

**Example Request:**

```
DELETE /user-drugs/1001476
```

**Response (200 - Success):**

```
{
  "status": "success",
  "message": "Drug removed from user list"
}
```

**Error Responses (404 - Not Found):**

```
{  
  "status": "error",  
  "message": "Drug not found in user list"  
}
```

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## Notes on Data Fields

- `rxcul` — RxNorm concept unique identifier
- `baseNames` — List of main ingredients in the drug
- `doseForms` — List of dose forms (e.g., Tablet, Oral Powder)