**# SilverConnect API Documentation**

**## Overview**

This document describes the available API endpoints for the SilverConnect backend. All endpoints (except `/api/test`) require authentication via JWT Bearer token unless otherwise specified.

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**## Authentication**

All endpoints (except `/api/test`, `/api/users/register`, and `/api/users/login`) require authentication using a JWT (JSON Web Token).

- **\*\*How to Obtain a Token:\*\***

  1. Register a user via `POST /api/users/register`.

  2. Login via `POST /api/users/login` to receive a JWT in the response.

- **\*\*How to Use the Token:\*\***

  - Include the token in the `Authorization` header for all protected requests:

    ```

    Authorization: Bearer <your-jwt-token>

    ```

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**## Endpoints**

**### Test**

- **\*\*GET\*\*** `/api/test`

  - Description: Test if the API is working.

  - Response: `{ message: "Test route working!" }`

**### Medications**

- **\*\*GET\*\*** `/api/medication-records` — Get all scheduled medications for the authenticated user.

- **\*\*POST\*\*** `/api/medication` — Create a new medication record.

- **\*\*POST\*\*** `/api/add-medication` — (Legacy) Create a new medication record.

- **\*\*POST\*\*** `/api/medication-schedule` — Schedule medication times.

- **\*\*PUT\*\*** `/api/medication-schedule/:scheduleId/mark-taken` — Mark a medication schedule as taken.

- **\*\*PUT\*\*** `/api/medication/:id` — Update a medication record.

- **\*\*DELETE\*\*** `/api/medication-schedule/:scheduleId` — Delete a medication schedule.

- **\*\*GET\*\*** `/api/medication-suggestions` — Get medication name suggestions (RxNav proxy).

- **\*\*GET\*\*** `/api/openfda-adverse-events` — Get medication side effects (OpenFDA).

**### Users**

**#### Register User**

**\*\*POST\*\*** `/api/users/register`

| Parameter   | In   | Type   | Required | Description           |

|-------------|------|--------|----------|-----------------------|

| username    | body | string | Yes      | Desired username      |

| email       | body | string | Yes      | User's email address  |

| password    | body | string | Yes      | User's password       |

**\*\*Request Example:\*\***

```json

{

  "username": "johndoe",

  "email": "john@example.com",

  "password": "password123"

}

#### Get All Scheduled Medications

\*\*GET\*\* `/api/medication-records`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

\*\*Response Example:\*\*

```json

[

  {

    "id": 1,

    "name": "Aspirin",

    "dose": "100mg",

    "times": ["08:00", "20:00"]

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Create Medication**

**\*\*POST\*\*** `/api/medication`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| name           | body   | string | Yes      | Medication name            |

| dose           | body   | string | Yes      | Dosage (e.g., "100mg")     |

| ...            | body   | ...    | ...      | Other medication fields    |

**\*\*Request Example:\*\***

```json

{

  "name": "Aspirin",

  "dose": "100mg",

  "times": ["08:00", "20:00"]

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Medication created successfully!",

  "medication": {

    "id": 2,

    "name": "Aspirin",

    "dose": "100mg",

    "times": ["08:00", "20:00"]

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Medication created

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

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**#### (Legacy) Create Medication**

**\*\*POST\*\*** `/api/add-medication`

*\_Same as `/api/medication` (for backward compatibility).\_*

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**#### Schedule Medication Times**

**\*\*POST\*\*** `/api/medication-schedule`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| medicationId   | body   | int    | Yes      | Medication ID              |

| times          | body   | array  | Yes      | Array of time strings      |

**\*\*Request Example:\*\***

```json

{

  "medicationId": 2,

  "times": ["08:00", "20:00"]

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Schedule created successfully!",

  "schedule": {

    "id": 5,

    "medicationId": 2,

    "times": ["08:00", "20:00"]

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Schedule created

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Mark Medication Schedule as Taken**

**\*\*PUT\*\*** `/api/medication-schedule/:scheduleId/mark-taken`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| scheduleId     | path   | int    | Yes      | Schedule ID                |

| taken          | body   | bool   | Yes      | Mark as taken (true/false) |

**\*\*Request Example:\*\***

```json

{

  "taken": true

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Schedule marked as taken."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Schedule not found

---

**#### Update Medication**

**\*\*PUT\*\*** `/api/medication/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Medication ID              |

| name           | body   | string | No       | Medication name            |

| dose           | body   | string | No       | Dosage                     |

| ...            | body   | ...    | ...      | Other updatable fields     |

**\*\*Request Example:\*\***

```json

{

  "name": "Aspirin",

  "dose": "150mg"

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Medication updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Medication not found

---

**#### Delete Medication Schedule**

**\*\*DELETE\*\*** `/api/medication-schedule/:scheduleId`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| scheduleId     | path   | int    | Yes      | Schedule ID                |

**\*\*Response Example:\*\***

```json

{

  "message": "Schedule deleted successfully."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Schedule not found

---

**#### Get Medication Name Suggestions**

**\*\*GET\*\*** `/api/medication-suggestions`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| query          | query  | string | Yes      | Search term                |

**\*\*Response Example:\*\***

```json

[

  "Aspirin",

  "Paracetamol",

  "Ibuprofen"

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Missing query

---

**#### Get Medication Side Effects (OpenFDA)**

**\*\*GET\*\*** `/api/openfda-adverse-events`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| name           | query  | string | Yes      | Medication name            |

**\*\*Response Example:\*\***

```json

{

  "sideEffects": [

    "Nausea",

    "Headache",

    "Dizziness"

  ]

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Missing or invalid name

---

**#### Login User**

**\*\*POST\*\*** `/api/users/login`

| Parameter   | In   | Type   | Required | Description           |

|-------------|------|--------|----------|-----------------------|

| email       | body | string | Yes      | User's email address  |

| password    | body | string | Yes      | User's password       |

**\*\*Request Example:\*\***

```json

{

  "email": "john@example.com",

  "password": "password123"

}

```

**\*\*Response Example:\*\***

```json

{

  "token": "<jwt-token>",

  "user": {

    "id": 1,

    "username": "johndoe",

    "email": "john@example.com"

  }

}

```

**\*\*Status Codes:\*\***

- 200 OK: Login successful

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid credentials

---

**#### Get User Profile**

**\*\*GET\*\*** `/api/users/profile`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

{

  "id": 1,

  "username": "johndoe",

  "email": "john@example.com",

  "language": "en"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Update User Profile**

**\*\*PUT\*\*** `/api/users/update`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| username       | body   | string | No       | New username               |

| email          | body   | string | No       | New email                  |

| password       | body   | string | No       | New password               |

**\*\*Request Example:\*\***

```json

{

  "username": "johnny",

  "email": "johnny@example.com"

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "User updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Update User Language**

**\*\*PUT\*\*** `/api/users/language`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| language       | body   | string | Yes      | Language code (e.g., "en") |

**\*\*Request Example:\*\***

```json

{

  "language": "zh"

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Language updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Delete User Account**

**\*\*DELETE\*\*** `/api/users/delete`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

{

  "message": "User account deleted."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**### Appointments**

**#### Create Appointment**

**\*\*POST\*\*** `/api/appointments`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| date           | body   | string | Yes      | Appointment date (ISO8601) |

| time           | body   | string | Yes      | Appointment time           |

| doctorId       | body   | int    | Yes      | Doctor ID                  |

| reason         | body   | string | No       | Reason for appointment     |

**\*\*Request Example:\*\***

```json

{

  "date": "2025-08-10",

  "time": "14:00",

  "doctorId": 3,

  "reason": "Routine checkup"

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Appointment created successfully!",

  "appointment": {

    "id": 7,

    "date": "2025-08-10",

    "time": "14:00",

    "doctorId": 3,

    "reason": "Routine checkup"

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Appointment created

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Get All Appointments**

**\*\*GET\*\*** `/api/appointments`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  {

    "id": 7,

    "date": "2025-08-10",

    "time": "14:00",

    "doctorId": 3,

    "reason": "Routine checkup"

  },

  {

    "id": 8,

    "date": "2025-08-12",

    "time": "09:00",

    "doctorId": 2,

    "reason": "Follow-up"

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Update Appointment**

**\*\*PUT\*\*** `/api/appointments/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Appointment ID             |

| date           | body   | string | No       | New date (ISO8601)         |

| time           | body   | string | No       | New time                   |

| doctorId       | body   | int    | No       | New doctor ID              |

| reason         | body   | string | No       | New reason                 |

**\*\*Request Example:\*\***

```json

{

  "date": "2025-08-15",

  "time": "10:00"

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Appointment updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Appointment not found

---

**#### Delete Appointment**

**\*\*DELETE\*\*** `/api/appointments/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Appointment ID             |

**\*\*Response Example:\*\***

```json

{

  "message": "Appointment deleted successfully."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Appointment not found

---

**### Doctors**

- **\*\*GET\*\*** `/api/doctors` — Get a list of doctors.

**### Family Management**

**#### Get Family Members**

**\*\*GET\*\*** `/api/family`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  {

    "id": 1,

    "name": "Jane Doe",

    "relation": "Mother",

    "age": 65

  },

  {

    "id": 2,

    "name": "John Doe",

    "relation": "Father",

    "age": 70

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Add Family Member**

**\*\*POST\*\*** `/api/family`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| name           | body   | string | Yes      | Family member's name       |

| relation       | body   | string | Yes      | Relation to user           |

| age            | body   | int    | No       | Age                        |

**\*\*Request Example:\*\***

```json

{

  "name": "Emily Doe",

  "relation": "Sister",

  "age": 30

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Family member added successfully!",

  "member": {

    "id": 3,

    "name": "Emily Doe",

    "relation": "Sister",

    "age": 30

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Member added

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Get Family Statistics**

**\*\*GET\*\*** `/api/family/stats`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

{

  "totalMembers": 3,

  "averageAge": 55

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Get Specific Family Member**

**\*\*GET\*\*** `/api/family/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Family member ID           |

**\*\*Response Example:\*\***

```json

{

  "id": 2,

  "name": "John Doe",

  "relation": "Father",

  "age": 70

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Member not found

---

**#### Update Family Member**

**\*\*PUT\*\*** `/api/family/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Family member ID           |

| name           | body   | string | No       | New name                   |

| relation       | body   | string | No       | New relation               |

| age            | body   | int    | No       | New age                    |

**\*\*Request Example:\*\***

```json

{

  "name": "Johnathan Doe",

  "age": 71

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Family member updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Member not found

---

**#### Delete Family Member**

**\*\*DELETE\*\*** `/api/family/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Family member ID           |

**\*\*Response Example:\*\***

```json

{

  "message": "Family member deleted successfully."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Member not found

---

**### Medication Inventory**

**#### Get User's Medication Inventory**

**\*\*GET\*\*** `/api/inventory`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  {

    "id": 1,

    "name": "Aspirin",

    "quantity": 30,

    "unit": "tablet",

    "expiry": "2025-12-31"

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Get Family Medication Inventory**

**\*\*GET\*\*** `/api/inventory/family`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  {

    "familyMember": "Jane Doe",

    "inventory": [

      {

        "id": 2,

        "name": "Paracetamol",

        "quantity": 20,

        "unit": "tablet",

        "expiry": "2025-10-01"

      }

    ]

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Get Inventory Statistics**

**\*\*GET\*\*** `/api/inventory/stats`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

{

  "totalItems": 5,

  "expiringSoon": 1

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Get Inventory Notifications**

**\*\*GET\*\*** `/api/inventory/notifications`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  {

    "id": 1,

    "message": "Aspirin is expiring soon.",

    "read": false

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Add Inventory Item**

**\*\*POST\*\*** `/api/inventory`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| name           | body   | string | Yes      | Medication name            |

| quantity       | body   | int    | Yes      | Quantity                   |

| unit           | body   | string | Yes      | Unit (e.g., tablet)        |

| expiry         | body   | string | No       | Expiry date (YYYY-MM-DD)   |

**\*\*Request Example:\*\***

```json

{

  "name": "Ibuprofen",

  "quantity": 15,

  "unit": "tablet",

  "expiry": "2026-01-01"

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Inventory item added successfully!",

  "item": {

    "id": 3,

    "name": "Ibuprofen",

    "quantity": 15,

    "unit": "tablet",

    "expiry": "2026-01-01"

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Item added

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Update Inventory Item**

**\*\*PUT\*\*** `/api/inventory/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Inventory item ID          |

| name           | body   | string | No       | New name                   |

| quantity       | body   | int    | No       | New quantity               |

| unit           | body   | string | No       | New unit                   |

| expiry         | body   | string | No       | New expiry date            |

**\*\*Request Example:\*\***

```json

{

  "quantity": 10

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Inventory item updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Item not found

---

**#### Take Medication from Inventory**

**\*\*PUT\*\*** `/api/inventory/:id/take`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Inventory item ID          |

| amount         | body   | int    | Yes      | Amount to take             |

**\*\*Request Example:\*\***

```json

{

  "amount": 2

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Medication taken from inventory."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Item not found

---

**#### Restock Medication in Inventory**

**\*\*PUT\*\*** `/api/inventory/:id/restock`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Inventory item ID          |

| amount         | body   | int    | Yes      | Amount to add              |

**\*\*Request Example:\*\***

```json

{

  "amount": 5

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Inventory restocked successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Item not found

---

**#### Mark Notification as Read**

**\*\*PUT\*\*** `/api/inventory/notifications/:id/read`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Notification ID            |

**\*\*Response Example:\*\***

```json

{

  "message": "Notification marked as read."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Notification not found

---

**#### Delete Inventory Item**

**\*\*DELETE\*\*** `/api/inventory/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Inventory item ID          |

**\*\*Response Example:\*\***

```json

{

  "message": "Inventory item deleted successfully."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Item not found

---

**### Meals & Foods**

**#### Get All Meals**

**\*\*GET\*\*** `/api/meals`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  {

    "id": 1,

    "date": "2025-08-01",

    "foods": [

      { "name": "Rice", "amount": 200, "unit": "g" },

      { "name": "Chicken", "amount": 100, "unit": "g" }

    ]

  }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Get Specific Meal**

**\*\*GET\*\*** `/api/meals/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Meal ID                    |

**\*\*Response Example:\*\***

```json

{

  "id": 1,

  "date": "2025-08-01",

  "foods": [

    { "name": "Rice", "amount": 200, "unit": "g" },

    { "name": "Chicken", "amount": 100, "unit": "g" }

  ]

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Meal not found

---

**#### Create Meal**

**\*\*POST\*\*** `/api/meals`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| date           | body   | string | Yes      | Meal date (YYYY-MM-DD)     |

| foods          | body   | array  | Yes      | Array of food objects      |

**\*\*Request Example:\*\***

```json

{

  "date": "2025-08-02",

  "foods": [

    { "name": "Bread", "amount": 50, "unit": "g" },

    { "name": "Egg", "amount": 1, "unit": "piece" }

  ]

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Meal created successfully!",

  "meal": {

    "id": 2,

    "date": "2025-08-02",

    "foods": [

      { "name": "Bread", "amount": 50, "unit": "g" },

      { "name": "Egg", "amount": 1, "unit": "piece" }

    ]

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Meal created

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Update Meal**

**\*\*PUT\*\*** `/api/meals/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Meal ID                    |

| date           | body   | string | No       | New date                   |

| foods          | body   | array  | No       | New foods array            |

**\*\*Request Example:\*\***

```json

{

  "foods": [

    { "name": "Apple", "amount": 100, "unit": "g" }

  ]

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Meal updated successfully!"

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Meal not found

---

**#### Delete Meal**

**\*\*DELETE\*\*** `/api/meals/:id`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| id             | path   | int    | Yes      | Meal ID                    |

**\*\*Response Example:\*\***

```json

{

  "message": "Meal deleted successfully."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Meal not found

---

**#### Add Food**

**\*\*POST\*\*** `/api/foods`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| name           | body   | string | Yes      | Food name                  |

| calories       | body   | int    | No       | Calories                   |

| ...            | body   | ...    | ...      | Other food fields          |

**\*\*Request Example:\*\***

```json

{

  "name": "Banana",

  "calories": 89

}

```

**\*\*Response Example:\*\***

```json

{

  "message": "Food added successfully!",

  "food": {

    "id": 5,

    "name": "Banana",

    "calories": 89

  }

}

```

**\*\*Status Codes:\*\***

- 201 Created: Food added

- 400 Bad Request: Invalid input

- 401 Unauthorized: Invalid or missing token

---

**#### Search Foods**

**\*\*GET\*\*** `/api/foods/search`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| query          | query  | string | Yes      | Search term                |

**\*\*Response Example:\*\***

```json

[

  { "id": 5, "name": "Banana", "calories": 89 },

  { "id": 6, "name": "Apple", "calories": 52 }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 400 Bad Request: Missing query

- 401 Unauthorized: Invalid or missing token

---

**#### Get All Foods**

**\*\*GET\*\*** `/api/foods`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

**\*\*Response Example:\*\***

```json

[

  { "id": 5, "name": "Banana", "calories": 89 },

  { "id": 6, "name": "Apple", "calories": 52 }

]

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

---

**#### Get Specific Food**

**\*\*GET\*\*** `/api/foods/:foodID`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| foodID         | path   | int    | Yes      | Food ID                    |

**\*\*Response Example:\*\***

```json

{

  "id": 5,

  "name": "Banana",

  "calories": 89

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Food not found

---

**#### Delete Food**

**\*\*DELETE\*\*** `/api/foods/:foodID`

| Parameter      | In     | Type   | Required | Description                |

|----------------|--------|--------|----------|----------------------------|

| Authorization  | header | string | Yes      | Bearer token (JWT)         |

| foodID         | path   | int    | Yes      | Food ID                    |

**\*\*Response Example:\*\***

```json

{

  "message": "Food deleted successfully."

}

```

**\*\*Status Codes:\*\***

- 200 OK: Success

- 401 Unauthorized: Invalid or missing token

- 404 Not Found: Food not found

---

---