

User Manual

Online Restaurant Ordering System API

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Date: November 30, 2025

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1. Overview

Welcome to the SLIME Restaurant Ordering System! This system allows you to:

- Browse our menu of delicious items including pizzas, pasta, burritos, salads, and more

- Place orders

2. Getting Started

Base URL

All interactions with the restaurant ordering system happen through our API at:

```
http://localhost:8000
```

Quick Health Check

To verify the system is running, visit the base URL. You should see:

```
{
  "message": "Welcome to the SLIME API"
}
```

Tools You Can Use

You can interact with this API using:

- Web browsers (for viewing information)

- API testing tools

3. Browsing the Menu

View All Menu Items

To see everything on our menu:

Request:

```
GET http://localhost:8000/menuitems/
```

Example Response:

```
[
  {
    "id": 1,
    "name": "Margherita Pizza",
    "description": "Classic pizza with tomato sauce, fresh mozzarella, and ba...",
    "price": 12.99,
    "calories": 850,
    "category": "Pizza",
    "is_available": true
  },
  {
    "id": 2,
    "name": "Pepperoni Pizza",
    "description": "Loaded with pepperoni and melted mozzarella cheese",
    "price": 14.99,
    "calories": 1050,
    "category": "Pizza",
    "is_available": true
  }
]
```

Search by Category

Looking for specific types of food? Search by category:

Find Vegetarian Options:

```
GET http://localhost:8000/menuitems/search?category=vegetarian
```

Find Pizza Options:

```
GET http://localhost:8000/menuitems/search?category=pizza
```

Find Healthy Options:

```
GET http://localhost:8000/menuitems/search?category=healthy
```

View Menu Item Details

To see details about a specific item:

```
GET http://localhost:8000/menuitems/1
```

Check Popular Items

See what other customers are ordering:

```
GET http://localhost:8000/menuitems/popularity
```

This shows:

- How many times each item has been ordered

- Average cu

4. Placing an Order

Option A: Order as a Registered Customer

If you have an account with us:

Request:

```
POST http://localhost:8000/orders/
```

What to Send:

```
{
  "customer_id": 1,
  "order_type": "delivery",
  "order_items": [
    {"menu_item_id": 1, "quantity": 2},
    {"menu_item_id": 13, "quantity": 1}
  ],
  "promotion_code": "WELCOME10"
}
```

Fields Explained:

Field	Description	Required
customer_id	Your unique customer number	Yes
order_type	Choose "delivery" or "take..	Yes
order_items	List of items you want to ..	Yes
promotion_code	Discount code (if you have..	No

Option B: Order as a Guest

No account? No problem! Place a guest order:

Request:

```
POST http://localhost:8000/orders/guest
```

What to Send:

```
{
  "guest": {
    "name": "Jane Doe",
    "phone": "704-555-1234",
    "email": "jane@email.com",
    "address": "123 Main Street, Charlotte, NC 28202"
  },
  "order_type": "delivery",
  "order_items": [
    {"menu_item_id": 2, "quantity": 1},
    {"menu_item_id": 5, "quantity": 2}
  ]
}
```

What You'll Receive

After placing an order, you'll get a confirmation like this:

```
{
  "id": 12,
  "tracking_number": "ORD-A1B2C3D4",
  "customer_id": 1,
  "order_type": "delivery",
  "total_price": 25.47,
  "status": "RECEIVED",
  "created_at": "2025-11-30T14:30:00",
  "order_details": [
    {

```

```
{
  "id": 15,
  "menu_item_id": 1,
  "quantity": 2,
  "item_price": 12.99
}
```

Important: Save your tracking_number to check your order status!

5. Tracking Your Order

Check Order Status

Use your tracking number to see your order status:

```
GET http://localhost:8000/orders/tracking/ORD-A1B2C3D4
```

Order Status Meanings

Status	What It Means
RECEIVED	We got your order!
PENDING	Your order is in queue
PREPARING	Our kitchen is making your food
OUT_FOR_DELIVERY	Your food is on the way!
COMPLETED	Order delivered/picked up
CANCELLED	Order was cancelled

6. Making Payments

Once you're ready to pay for your order:

Request:

```
POST http://localhost:8000/payments/orders/12
```

(Replace 12 with your order ID)

What to Send:

```
{
  "payment_type": "Credit Card",
  "status": "Processing",
  "amount": 25.47,
  "masked_card_last4": "4242"
}
```

Fields Explained:

Field	Description
payment_type	"Credit Card" or "Debit Card"
amount	Must match your order total exactly
masked_card_last4	Last 4 digits of your card (for your rec..)

Important: The amount must match your order total (including any discounts). If it doesn't match, the payment will be rejected.

Check Payment Status

```
GET http://localhost:8000/payments/orders/12
```

7. Using Promotions

How to Apply a Discount Code

Include the `promotion_code` field when placing your order:

```
{
  "customer_id": 1,
  "order_type": "takeout",
  "order_items": [
    {"menu_item_id": 1, "quantity": 1}
  ],
  "promotion_code": "WELCOME10"
}
```

Available Promotion Codes

Code	Discount	Notes
WELCOME10	10% off	For new customers
SUMMER20	20% off	Seasonal special
HOLIDAY15	15% off	Holiday special
VIP25	25% off	VIP customers

Promotion Rules

- Codes are case-sensitive

- Only one c

8. Leaving Reviews

Share Your Experience

After receiving your order, leave a review:

Request:

```
POST http://localhost:8000/reviews/
```

What to Send:

```
{
  "order_id": 12,
  "menu_item_id": 1,
  "rating": 5,
  "comment": "Amazing pizza! The crust was perfect!"
}
```

Rating Scale:

- ***** (5) - Excellent

- ***** (4) - G

```
GET http://localhost:8000/reviews/menu/1
```

9. Managing Your Account

Create an Account

Request:

```
POST http://localhost:8000/customers/
```

What to Send:

```
{
  "name": "John Smith",
  "email": "john@email.com",
  "phone": "704-555-0101",
  "address": "123 Main Street, Charlotte, NC 28202"
}
```

Update Your Information

Request:

```
PUT http://localhost:8000/customers/1
```

(Replace 1 with your customer ID)

What to Send:

```
{
  "name": "John Smith",
  "email": "john.new@email.com",
  "phone": "704-555-0199",
  "address": "456 New Street, Charlotte, NC 28203"
}
```

View Your Account

```
GET http://localhost:8000/customers/1
```

10. Frequently Asked Questions

Q: What if my order total seems wrong?

A: Your total is automatically calculated based on menu prices. If you applied a promotion code, the discount is already reflected. The system also checks inventory to ensure all items are available.

Q: Can I modify my order after placing it?

A: Once an order is placed, you can update the order type (delivery/takeout) and status, but you cannot add or remove items. Please double-check your order before submitting.

Q: Why was my promotion code rejected?

A: Promotion codes may be rejected if:

- The code is misspelled (codes are case-sensitive)

- The code has expired

A: Contact our support team as soon as possible. Orders that are already being prepared may not be eligible for cancellation.

Q: What payment methods are accepted?

A: We accept:

- Credit Cards

- Debit Card

A: Delivery times vary based on your location and current order volume. You can track your order status in real-time using your tracking number.

Q: What if I have dietary restrictions?

A: Use our category search feature to find items that meet your needs:

- Search "vegetarian" for meat-free options

- Search "he

A: Each menu item shows an `is_available` field. If it's true, the item is in stock. The system also checks ingredient inventory when you place an order and will notify you if something is unavailable.

Need Help?

If you encounter any issues or have questions not covered in this manual, please contact our support team.

Thank you for choosing SLIME Restaurant Ordering System!

End of User Manual