

# User Manual

Online Restaurant Ordering System API

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# Online Restaurant Ordering System API

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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 order...

## 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

## 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": [
    {
      "menu_item_id": 1,
      "quantity": 2
    },
    {
      "menu_item_id": 5,
      "quantity": 2
    }
  ]
}
```

```

        "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 Cards

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