Ecommerce Store API

This hypothetical simple API provides endpoints to interact with an ecommerce store, enabling users to browse products, manage their shopping cart, and place orders seamlessly. I have added different endpoints to mirrow different scenarios. From `browsing` products to `checking` out.

Endpoint: `/products`

Description: This endpoint allows you to retrieve a list of products available in the ecommerce store.

Methods: GET

Parameters:

- `category` (optional): Filter products by category.
- `min_price` (optional): Filter products by minimum price.
- `max_price` (optional): Filter products by maximum price.
- `sort` (optional): Sort products by attributes like price, popularity, or name.

Response:

```
[
  {
    "id": "product_id",
    "name": "Product Name",
    "category": "Category Name",
    "price": 99.99,
    "stock": 50
  },
  // More product objects
]
```

Endpoint: `/product/{product_id}`

Description: This endpoint allows you to retrieve detailed information about a specific product.

Methods: GET

Parameters:

- `product_id` (required): The unique identifier of the product.

Response:

```
{
  "id": "product_id",
  "name": "Product Name",
  "category": "Category Name",
  "price": 99.99,
  "description": "Product description goes here.",
  "images": ["url1", "url2"],
  "stock": 50,
  "reviews": [
    {
      "user": "Username",
      "rating": 4,
      "comment": "Review comment."
    },
    // More review objects
  ]
}
```

Endpoint: `/cart`

Description: This endpoint allows you to manage the items in a user's shopping cart.

Methods: GET, POST, PUT, DELETE

Response (GET):

```
{
  "items": [
    {
      "product_id": "product_id",
      "name": "Product Name",
      "price": 99.99,
      "quantity": 2
    },
    // More item objects
  ],
  "total_price": 199.98
}
```

Request Body (POST/PUT):

```
{
  "product_id": "product_id",
  "quantity": 2
}
```

Endpoint: `/checkout`

Description: This endpoint allows users to proceed to the checkout process and place an order.

Methods: POST

Request Body:

```
{
  "items": [
    {
      "product_id": "product_id",
      "quantity": 2
    },
    // More item objects
  ],
  "total_price": 199.98,
  "shipping_address": "123 Main St, City, Country",
  "payment_method": "Credit Card"
}
```

Response:

```
{
  "order_id": "order_id",
  "message": "Order placed successfully."
}
```