

```
from flask import Flask, request, jsonify
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```
app = Flask(__name__)
```

```
# Sample data structure to store ticket bookings (in memory for this example)
bookings = []
```

```
# Function to generate a response
def generate_response(user_input):
    user_input = user_input.lower()
```

```
    if "hello" in user_input:
        return "Hello! Welcome to the museum ticket booking system. How can I assist you today?"
    elif "book" in user_input:
        return "Sure! I can help you with booking tickets. How many tickets would you like to book?"
    elif "cancel" in user_input:
        return "To cancel a booking, please provide your booking ID."
    elif "thank you" in user_input or "thanks" in user_input:
        return "You're welcome! Enjoy your visit to the museum."
    elif "bye" in user_input:
        return "Goodbye! Have a great day!"
    else:
        return "I'm sorry, I didn't understand that. Could you please rephrase your question?"
```

```
# Route to handle incoming chat messages
@app.route('/chat', methods=['POST'])
def chat():
    user_input = request.json.get('message')
```

```
response = generate_response(user_input)
return jsonify({"response": response})
```

```
# Start the Flask application
if __name__ == '__main__':
    app.run(debug=True)
```