Name : Rizqullah Maziyah Isnaeni

NIM : 1202201389 Class : SI44INT

1. Add Hotel

```
@app.route('/hotels', methods=['POST'])
 def add_hotel():
     data = request.get_json()
     name = data['name']
     city = data['city']
     rating = data['rating']
     price = data['price']
     query = "INSERT INTO hotels (name, city, rating, price) VALUES (%s, %s, %s, %s)"
     values = (name, city, rating, price)
     cursor.execute(query, values)
     db.commit()
     return jsonify({'message': 'Hotel added successfully'})
                                                                              🖺 Save 🗸
 http://localhost:5000/hotels
 POST
              http://localhost:5000/hotels
                                                                                           Send
Params
        Authorization
                                       Pre-request Script
                                                                                               Cookies
                    Headers (8)
                                Body •
                                                       Tests
                                                             Settings
                                                                                              Beautify
none
       £
   1
         ·"name": ·"Margo ·Hotel",
   2
          "city": "Depok",
   3
   4
          "rating": 4.4,
         "price": 700000
   5
   6
Body Cookies Headers (5) Test Results
                                                                  (200 OK 29 ms 209 B Save Response >
 Pretty
                                                                                               ■ Q
         Raw
                Preview
                          Visualize
                                    JSON V
   1
   2
          "message": "Hotel added successfully"
      3
   3
```

```
mysql> select * from hotels;
                                 city
                                            rating
  hotel_id
                                                    | price
              name
              Margo Hotel
                                 Depok
                                                4.4
                                                      700000.00
         1
2
3
                                                4.6
                                                       750000.00
                                 Bandung
              ASTON Tropicana
              Grand Asrilia
                                                4.5
                                                      650000.00
                                 Bandung
         4
              Favehote
                                 Depok
                                                4.4
                                                      395000.00
 rows in set (0.00 sec)
```

The data will be input in the MySQL database

2. Get Hotel

```
# get hotels endpoint
@app.route('/hotels', methods=['GET'])
def get hotels():
    query = "SELECT * FROM hotels ORDER BY city, rating;"
    cursor.execute(query)
    result = cursor.fetchall()
    hotels = []
    for hotel in result:
         hotel_data = {}
        hotel_data['name'] = hotel[1]
        hotel_data['city'] = hotel[2]
        hotel_data['price'] = hotel[4]
         hotel_data['rating'] = hotel[3]
        hotels.append(hotel_data)
    return jsonify({'hotels': hotels})
 http://localhost:5000/hotels

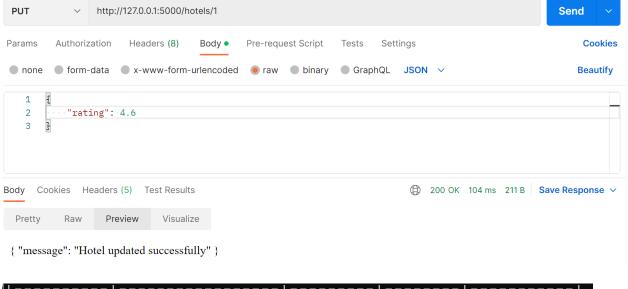
    Save

 GET
               http://localhost:5000/hotels
                                                                                             Send
Params
        Authorization
                    Headers (8)
                                Body •
                                        Pre-request Script
                                                               Settings
                                                                                                 Cookies
        Beautify
none
     Cookies Headers (5) Test Results
                                                                    200 OK 16 ms 647 B Save Response >
Body
 Pretty
          Raw
                 Preview
                          Visualize
                                     JSON V
                                                                                                  ■ Q
   1
          "hotels": [
   2
   3
   4
                 "city": "Bandung",
                 "name": "Grand Asrilia",
   5
                 "price": "650000.00",
   6
                 "rating": 4.5
   7
   8
             7.
   9
  10
                 "city": "Bandung",
                 "name": "ASTON Tropicana",
  11
                 "price": "750000.00",
  12
  13
                 "rating": 4.6
```

```
"city": "Depok",
16
                  "name": "Margo Hotel",
17
                  "price": "700000.00",
18
                  "rating": 4.4
19
20
             },
21
             £
                 "city": "Depok",
22
23
                  "name": "Favehotel",
24
                  "price": "395000.00",
                  "rating": 4.4
25
26
27
28
```

3. Update Hotel

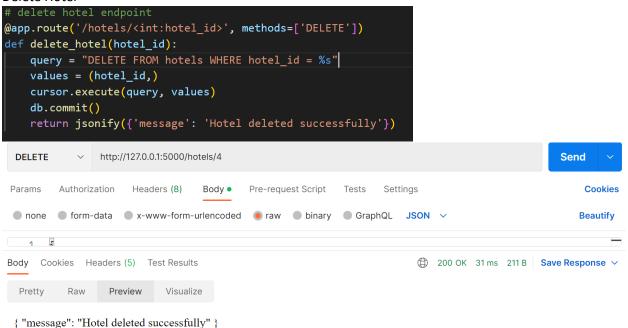
```
@app.route('/hotels/<int:hotel_id>', methods=['PUT'])
def update_hotel(hotel_id):
    data = request.get json()
    name = data.get('name')
    city = data.get('city')
    rating = data.get('rating')
    price = data.get('price')
    query = "UPDATE hotels SET "
    sets = []
    values = []
    if name:
        sets.append("name = %s")
        values.append(name)
    if city:
        sets.append("city = %s")
       values.append(city)
    if rating:
        sets.append("rating = %s")
        values.append(rating)
    if price:
       sets.append("price = %s")
        values.append(price)
    query += ", ".join(sets)
    query += " WHERE hotel_id = %s"
    values.append(hotel_id)
    cursor.execute(query, values)
    db.commit()
    return jsonify({'message': 'Hotel updated successfully'})
```



+			+						
hotel_id		city	rating	price					
1	Margo Hotel	Depok	4.6	700000.00					
2	ASTON Tropicana	Bandung	4.6	750000.00					
3	Grand Asrilia	Bandung	4.5	650000.00					
4	Favehotel	Depok	4.4	395000.00					
4 rows in set (0.00 sec)									

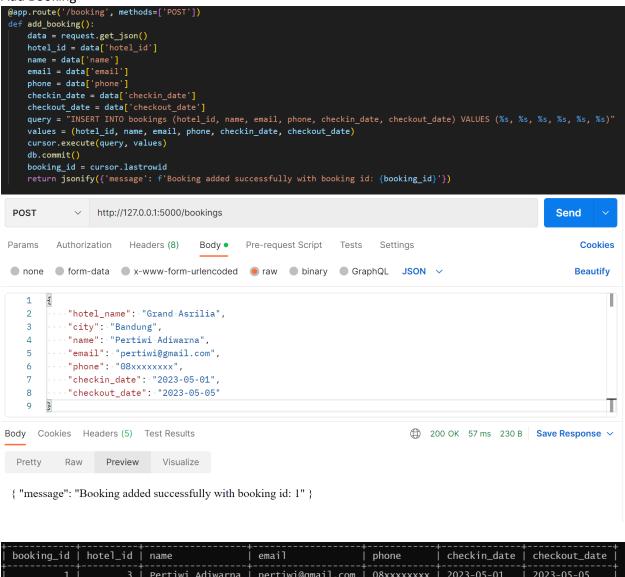
Change the rating of Margo Hotel from 4.4 to 4.6

4. Delete Hotel



```
hotel_id
                                          rating
                                                    price
                               city
           name
            Margo Hotel
       1
                               Depok
                                              4.6
                                                    700000.00
                                             4.6
       2
                               Bandung
                                                    750000.00
            ASTON Tropicana
       3
            Grand Asrilia
                                              4.5
                                                    650000.00
                               Bandung
rows in set (0.00 sec)
```

5. Add Booking



booking_id	T .		 email	г -	F -	checkout_date
1	3	Pertiwi	pertiwi@gmail.com			
1 row in set	(0.00 sec)	+	 			

6. Get Booking

```
# get booking API
@app.route('/bookings/<int:booking_id>', methods=['GET'])
def get_booking(booking_id):
    query = "SELECT * FROM bookings WHERE booking_id = %s"
    values = (booking_id,)
    cursor.execute(query, values)
    result = cursor.fetchone()
    if not result:
        return jsonify({'message': 'Booking not found'})
    booking = {}
    booking['booking_id'] = result[0]
    booking['hotel_id'] = result[1]
    booking['name'] = result[2]
    booking['email'] = result[3]
    booking['phone'] = result[4]
    booking['checkin_date'] = result[5].strftime('%Y-%m-%d')
    booking['checkout_date'] = result[6].strftime('%Y-%m-%d')
    return jsonify({'booking': booking})
```

