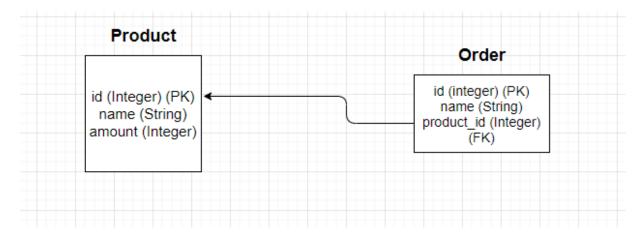
Technologies:

- > Flask
- Postgres
- Postman

Database:



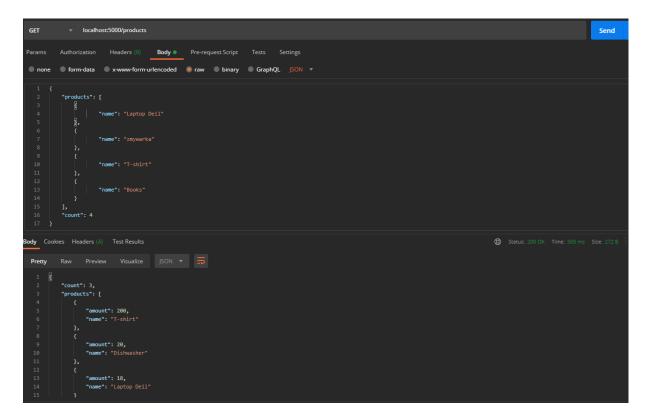
Functionality:

Connecting with postgresql

```
app.config['SQLALCHEMY_DATABASE_URI'] =
"postgresql://postgres:postgres@localhost:5432/amazon_api"
db = SQLAlchemy(app)
migrate = Migrate(app, db)
```

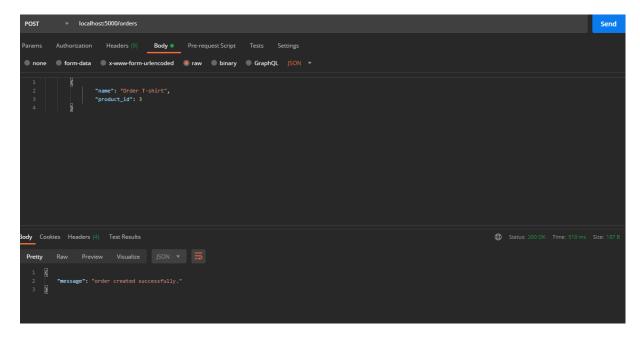
flask db init flask db migrate flask db upgrade

Listing products



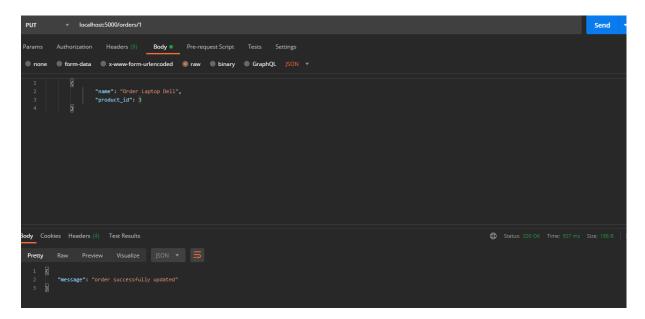
Creating an order

```
@app.route('/orders', methods=['POST', 'GET'])
def handle_orders():
    if request.method == 'POST':
        if request.is_json:
            data = request.get_json()
            new_order = OrderModel(name=data['name'],
product_id=data['product_id'])
            db.session.add(new_order)
            db.session.commit()
            return {"message": f"order created successfully."}
    else:
        return {"error": "not in JSON format"}
```



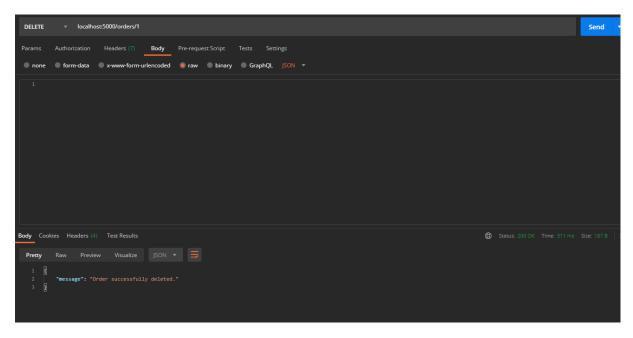
Updating an order

```
elif request.method == 'PUT':
    data = request.get_json()
    order.name = data['name']
    order.product_id = data['product_id']
    db.session.add(order)
    db.session.commit()
    return {"message": f"order successfully updated"}
```



Deleting an order

```
elif request.method == 'DELETE':
   db.session.delete(order)
   db.session.commit()
   return {"message": f"Order successfully deleted."}
```



Listing existing orders

Testing

```
import pytest
from app import ProductModel, OrderModel
@pytest.fixture(scope='module')
def product():
    product = ProductModel("desk", 12)
    return product
@pytest.fixture(scope='module')
def order():
    order = OrderModel("Order 1: T-shirt", 1)
    return order
def properly_product(product):
    assert product.name == ("desk",)
    assert product.amount == 12
def properly_order(order):
    assert order.name == ("Order1",)
    assert order.product_id == 1
def not_proper_amount_of_product(product):
    assert product.name == ("desk",)
    assert not product.amount == 10
def not_proper_name_of_order(order):
    assert not order.name == ("xyz",)
    assert order.product_id == 1
```