

Order Management Service

1. Overview

Order Management Service is a backend service to support order management in online shop.

a. Objective

To build a service to provide order management process.

The service will offer features which will

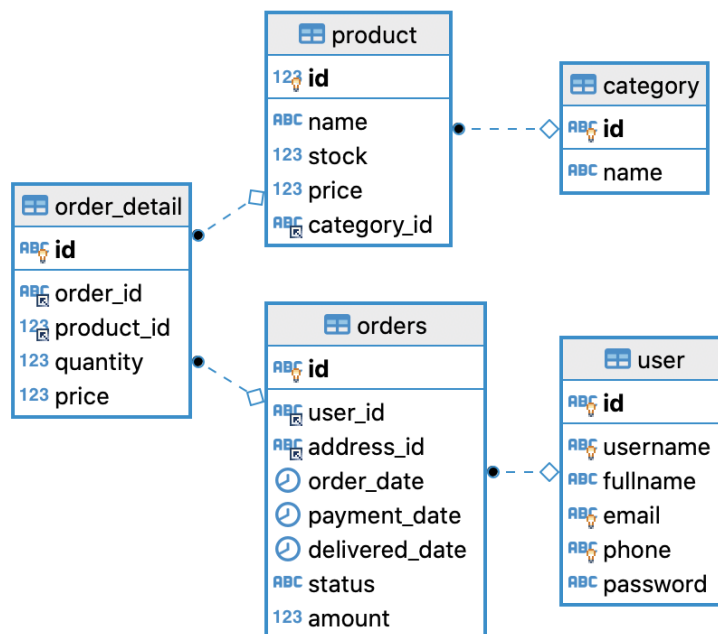
- Provide authentication service
- Browse list of products
- Provide order management system

b. Assumption

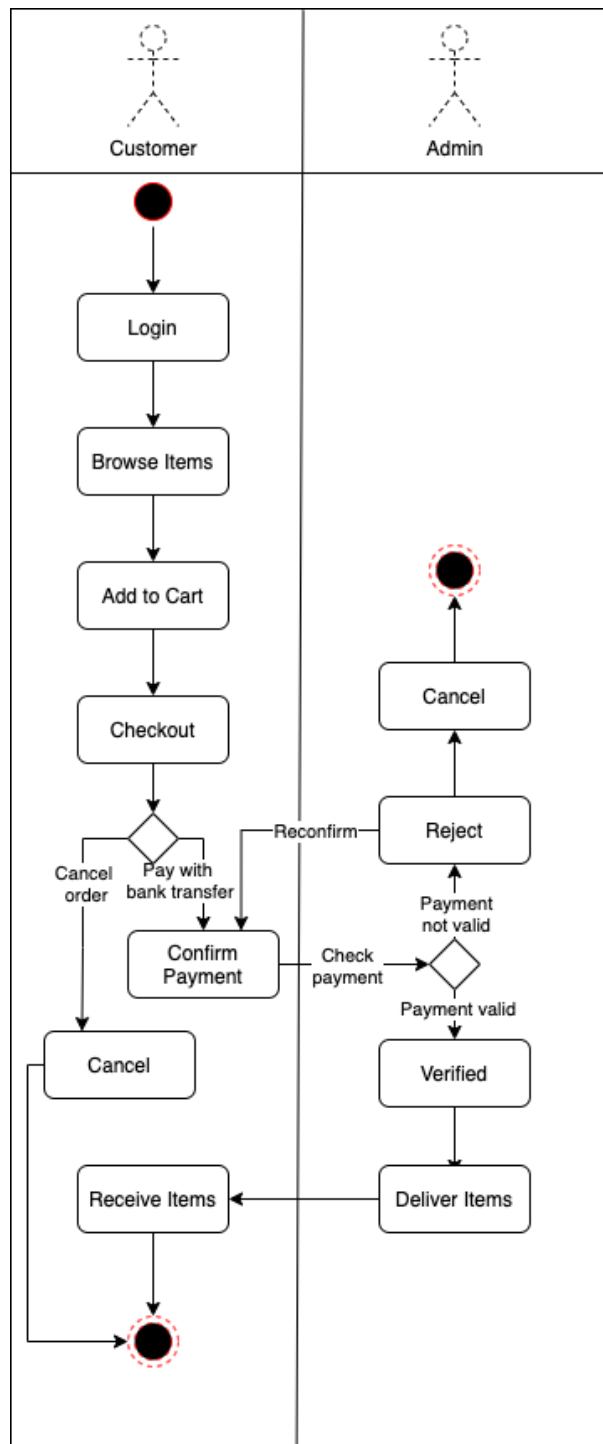
- Shipping address service is out of this service
- Cart system is handled by front-end

2. Architecture

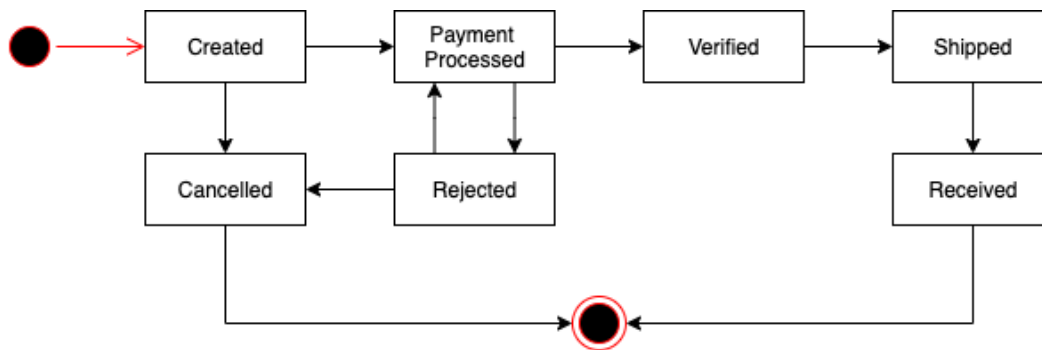
a. Database Diagram



b. Activity Diagram



c. Order State Diagram



3.API Contract

Dev URL: <https://order-system-tsel.herokuapp.com>

Register

URL	POST {url}/v1/register
Header	
Body	<pre>{ "username": [USERNAME], "password": [PASSWORD], "fullname": [FULLNAME], "email": [EMAIL], "phone": [PHONE] }</pre>
Response	<pre>201 CREATED { "status": "Success" }</pre>

Login

URL	POST {url}/v1/login
Header	
Body	<pre>{ "username": [USERNAME], "password": [PASSWORD] }</pre>
Response	200 OK <pre>{ "token": "" }</pre>

Browse Products

URL	GET {url}/v1/products
Header	Authorization: Bearer [YOUR_TOKEN]
Body	
Response	200 OK <pre>{ "products": [{ "id": 23, "name": "Iphone 12 Pro", "stock": 11, "price": 12500000 }] }</pre>

Place Order

URL	POST {url}/v1/orders
Header	Authorization: Bearer [YOUR_TOKEN]
Body	<pre>{ "shipping_address": [SHIPPING_ADDRESS_ID], "items": [{ "product_id": [PRODUCT_ID], "quantity": [QUANTITY], "price": [PRICE] }] }</pre>
Response	<pre>201 CREATED { "id": "61dc6d71-3f60-476c-ad9b-503f8455f36b", "user_id": "255b7318-43c4-4556-8f35-18c3799a382e", "status": "RECEIVED", "amount": 25100000, "items": [{ "name": "Screen Guard 5.5\"", "price": 50000, "quantity": 2 }, { "name": "Iphone 12 Pro", "price": 12500000, "quantity": 1 }] }</pre>

Update Order

URL	PUT {url}/v1/orders
Header	Authorization: Bearer [YOUR_TOKEN]
Body	<pre>{ "order_id": [ORDER_ID], "status": [STATUS] }</pre>
Response	200 OK <pre>{ "status": "Success" }</pre>

Get Order

URL	GET {url}/v1/orders/<order_id>
Header	Authorization: Bearer [YOUR_TOKEN]
Body	
Response	200 OK <pre>{ "id": "61dc6d71-3f60-476c-ad9b-503f8455f36b", "user_id": "255b7318-43c4-4556-8f35-18c3799a382e", "status": "RECEIVED", "amount": 25100000, "items": [{ "name": "Screen Guard 5.5\"", "price": 50000, "quantity": 2 }, { "name": "Iphone 12 Pro", "price": 12500000, "quantity": 1 }] }</pre>

4. Deployment

This service deployed in Heroku Cloud Platform.

Pipeline

