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# 蜜蜂核心計畫報告

— 無蜂王授粉媒合平台 —

2024-08-08

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# System Diagram (Before)

## Frontend

**NEXT.JS**

**下單平台**

訂單管理

路線規劃

## Backend

**Express.JS**

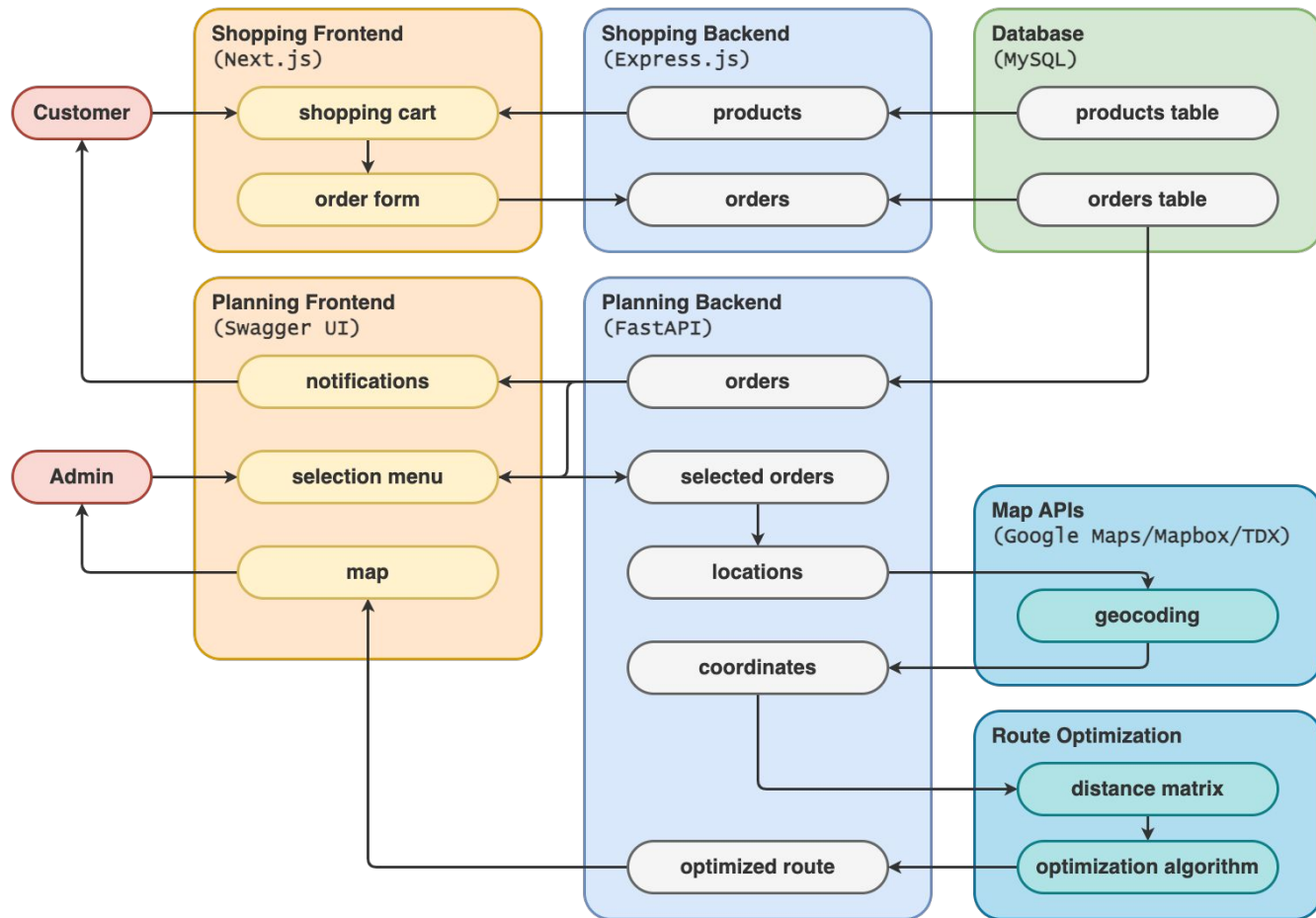
Python

## Database

**MySQL**

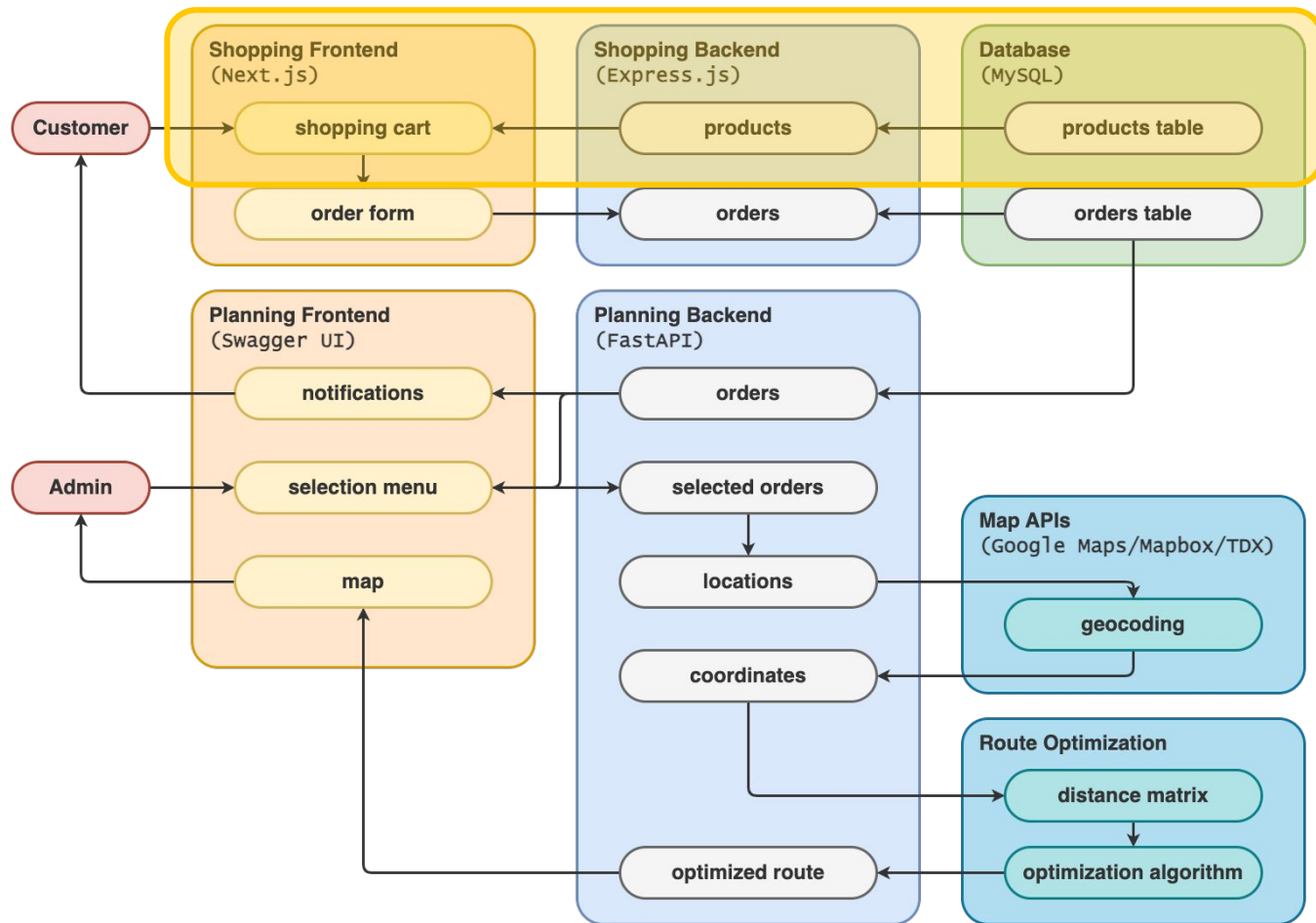
(After)

## System Diagram of Queenless-Pollination-Platform



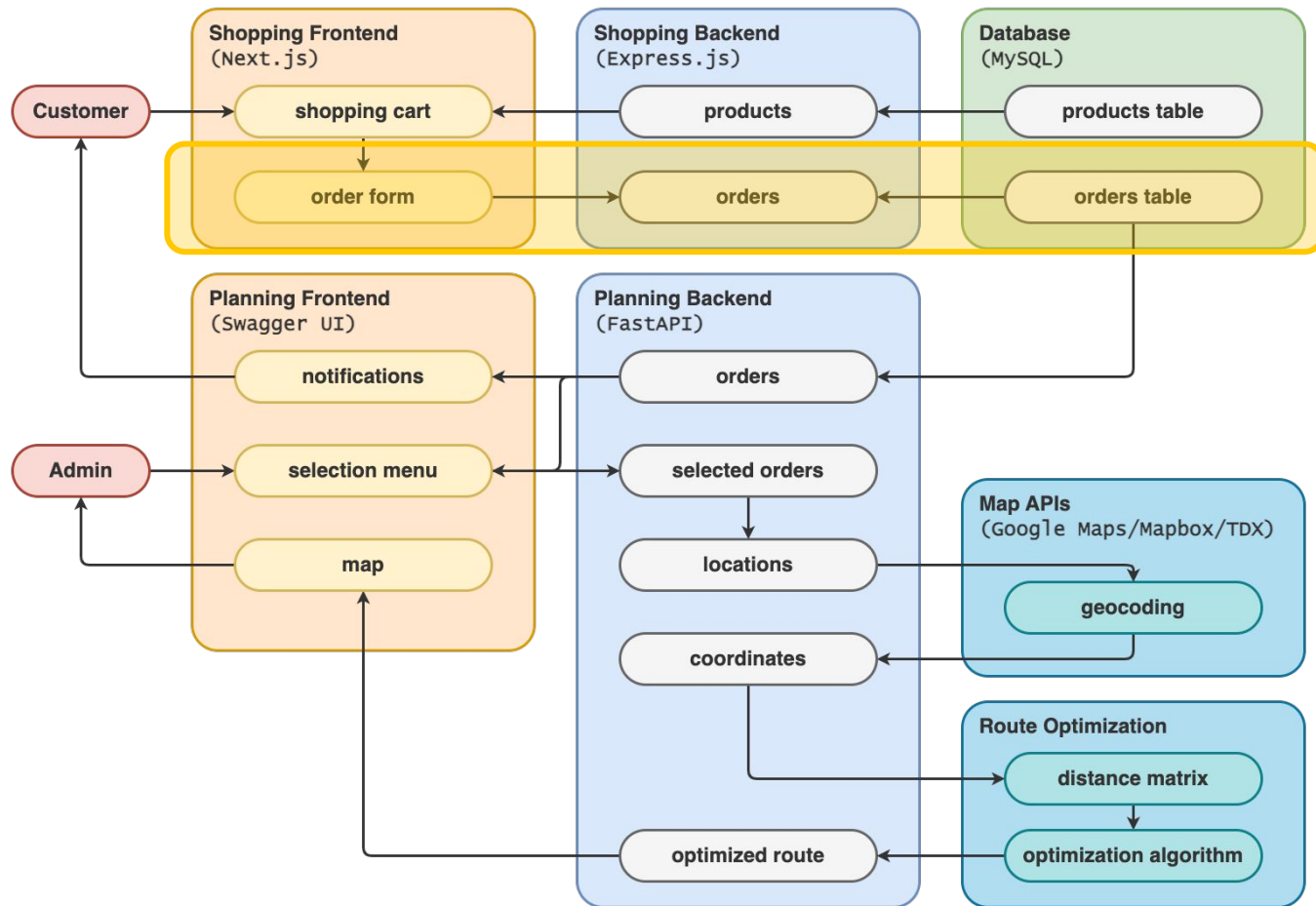
# Customer: Shopping

System Diagram of Queenless-Pollination-Platform



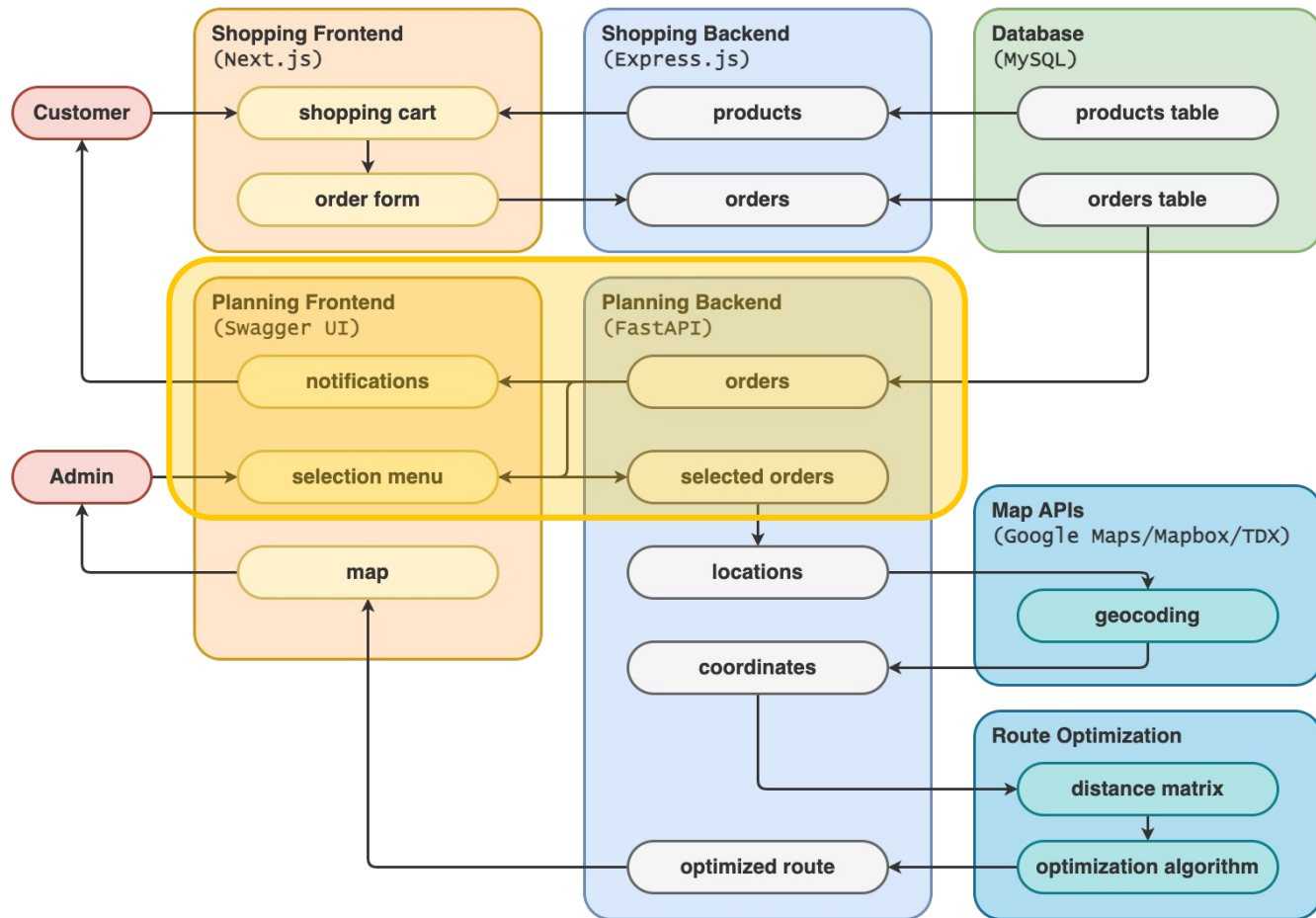
# Customer: Ordering

System Diagram of Queenless-Pollination-Platform



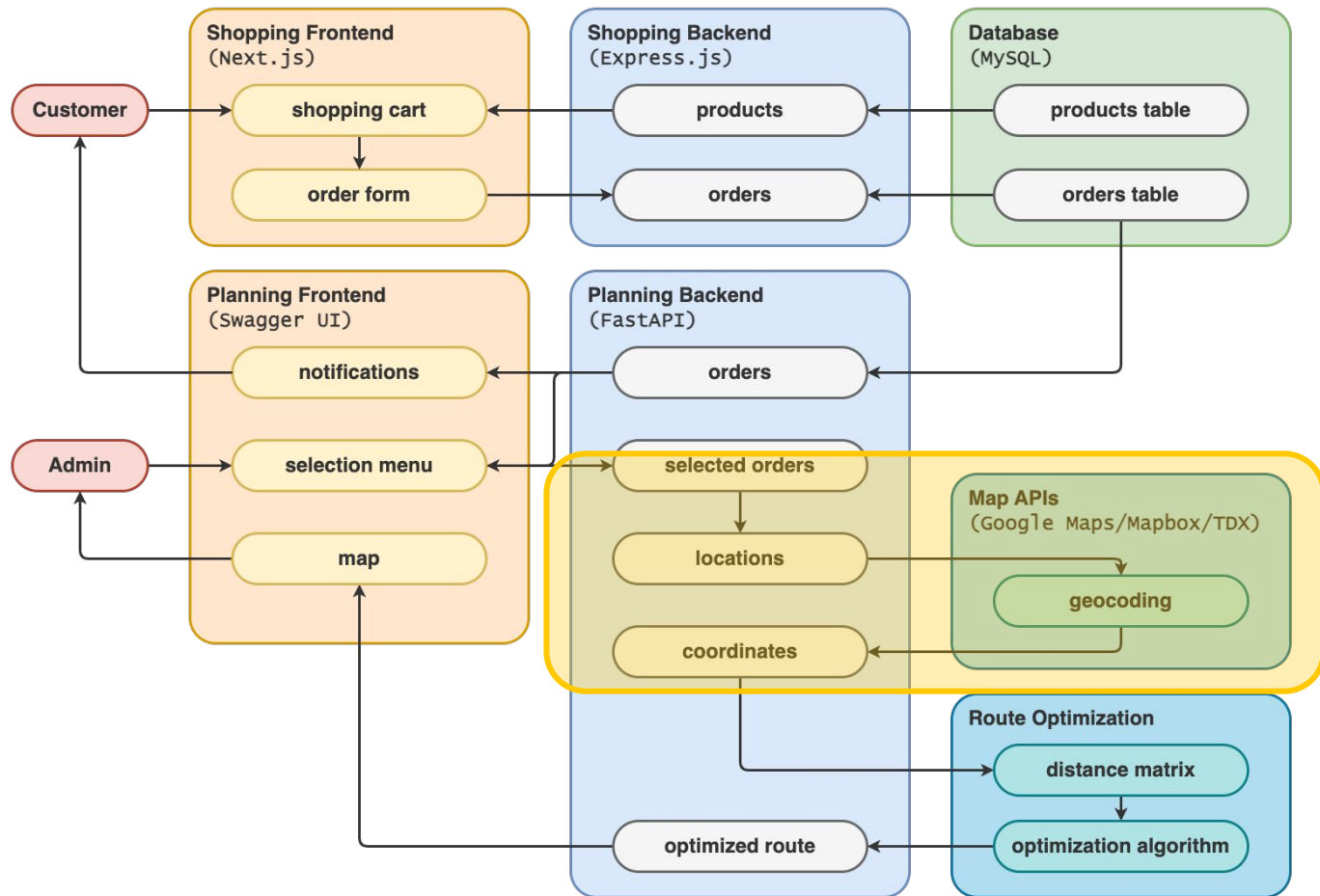
# Admin: Selecting

System Diagram of Queenless-Pollination-Platform



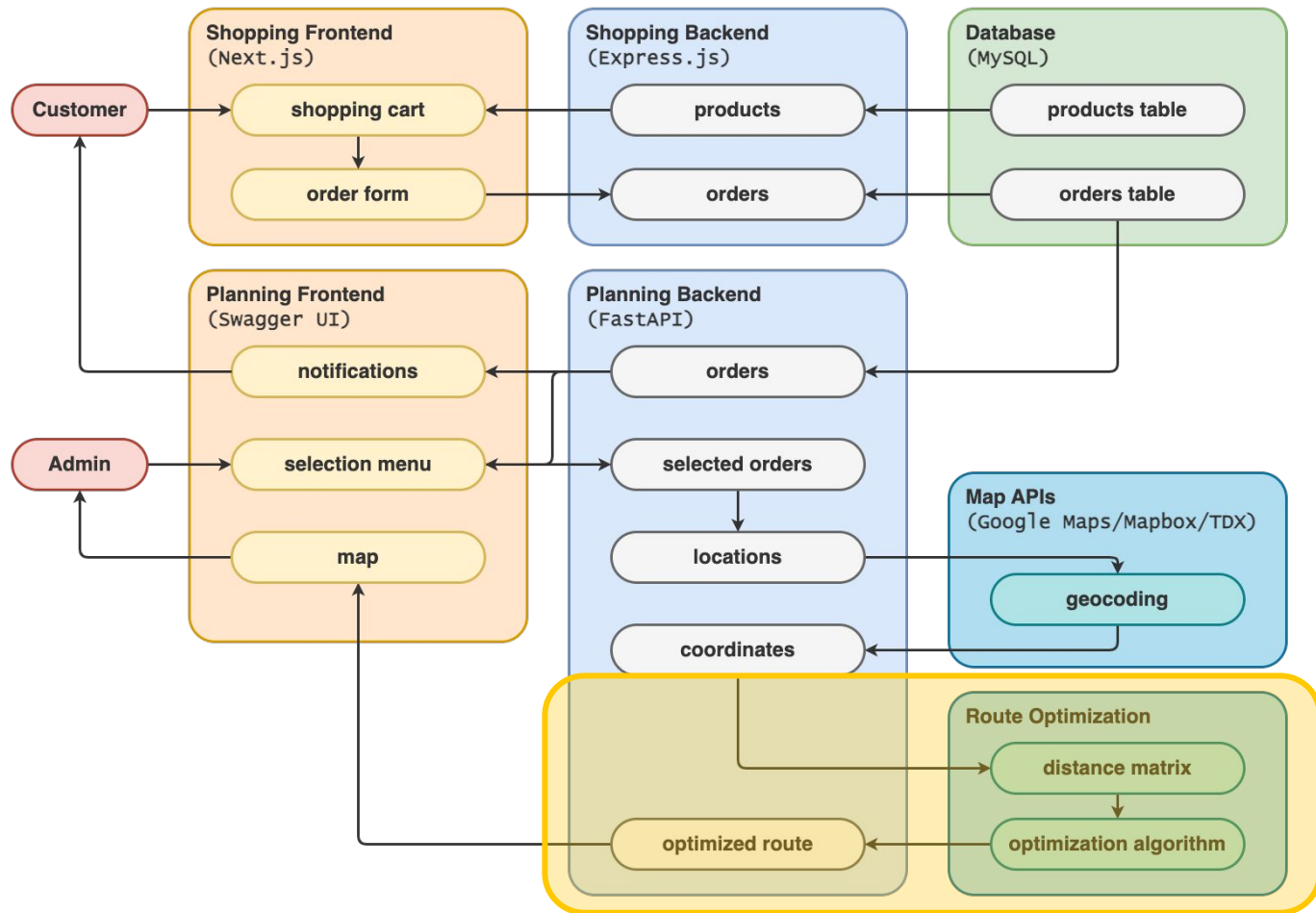
# Admin: Geocoding

System Diagram of Queenless-Pollination-Platform



# Admin: Optimizing

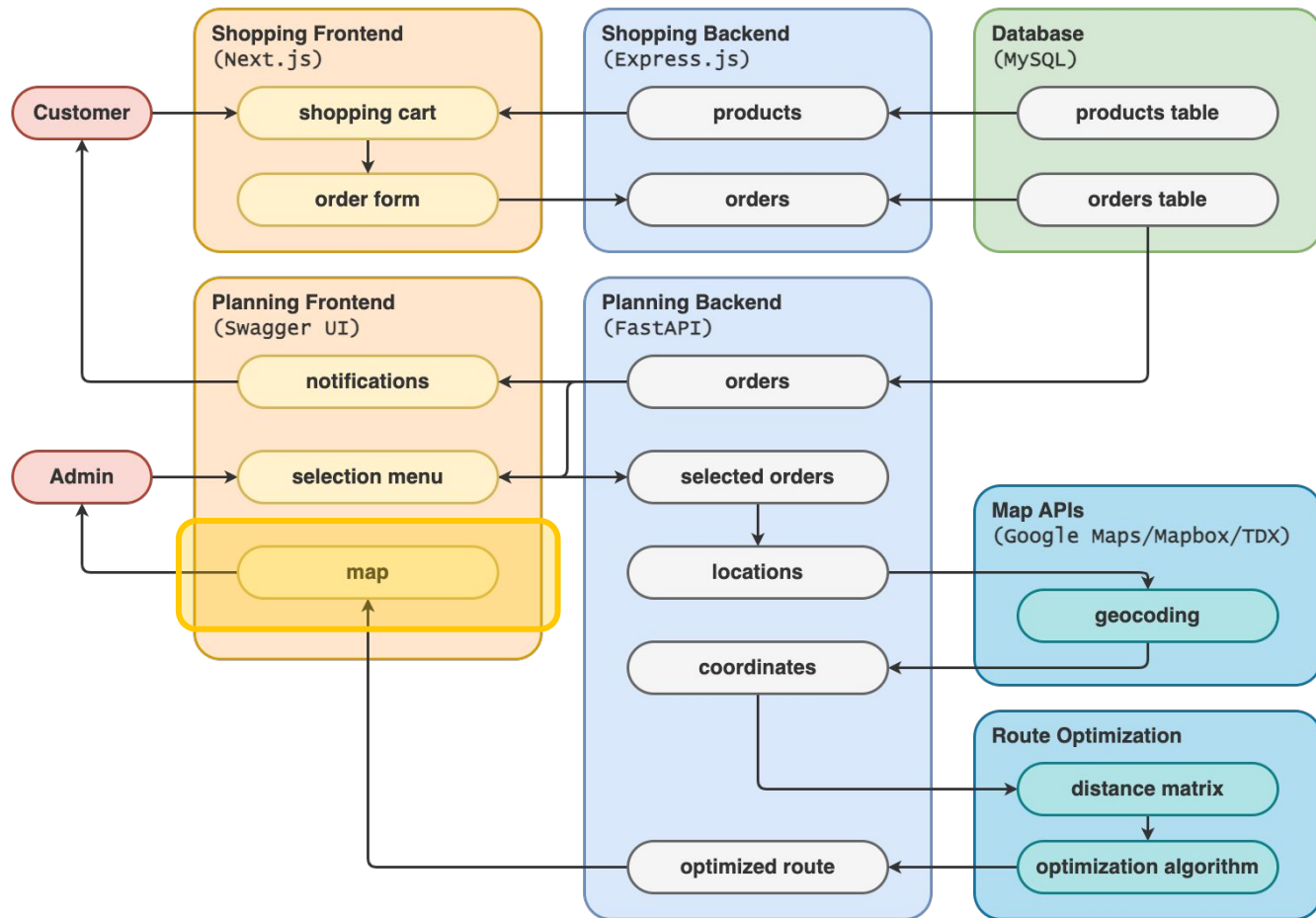
System Diagram of Queenless-Pollination-Platform





# Admin: Navigating

System Diagram of Queenless-Pollination-Platform



# Swagger UI: Demo

FastAPI 0.1.0 OAS 3.1  
/openapi.json

default

GET / Read Root

GET /items/{item\_id} Read User Item

PUT /items/{item\_id} Update Item

Parameters

Cancel

Reset

Name Description

item\_id \* required  
integer  
(path)

1

Request body required

application/json

```
{
  "name": "big_box",
  "price": 2000,
  "is_offer": true
}
```

Responses

Curl

```
curl -X 'PUT' \
  'http://127.0.0.1:8000/items/1' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "name": "big_box",
    "price": 2000,
    "is_offer": true
  }'
```

Request URL

http://127.0.0.1:8000/items/1

Server response

Code

Details

200

Response body

```
{
  "item_price": 2000,
  "item_id": 1
}
```

Response headers

```
content-length: 33
content-type: application/json
date: Wed, 07 Aug 2024 23:25:10 GMT
server: uvicorn
```

Responses

Code

Description

Links

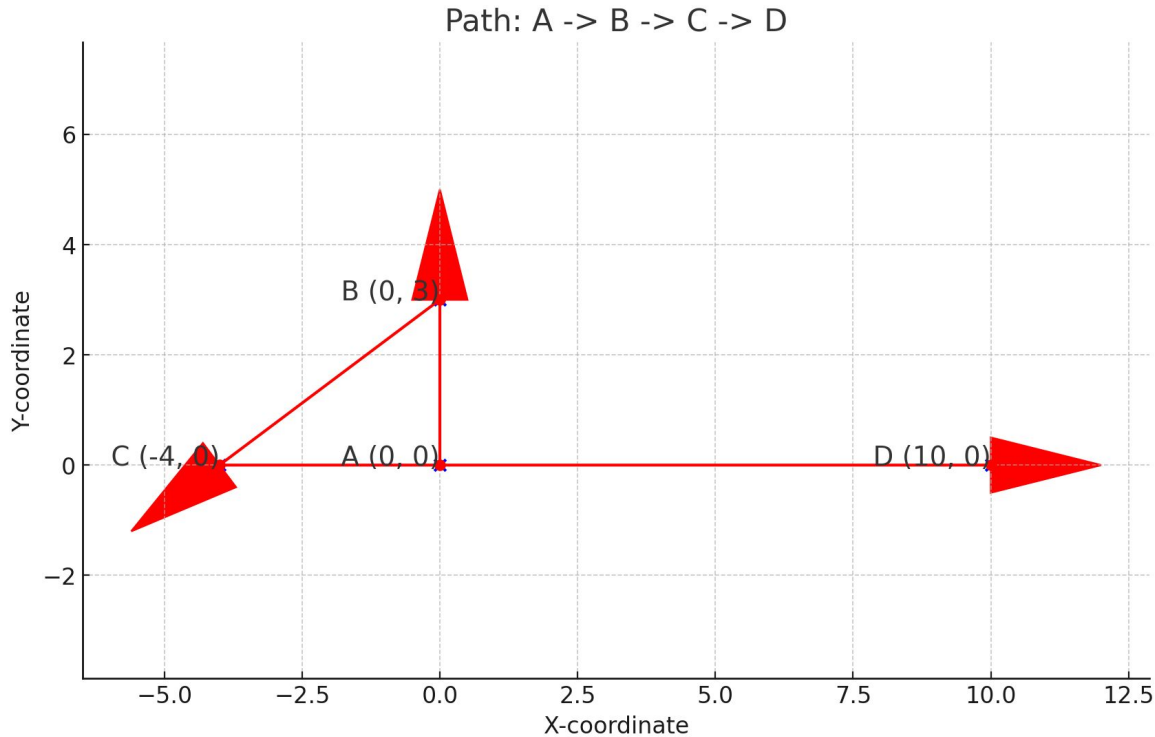
200

Successful Response

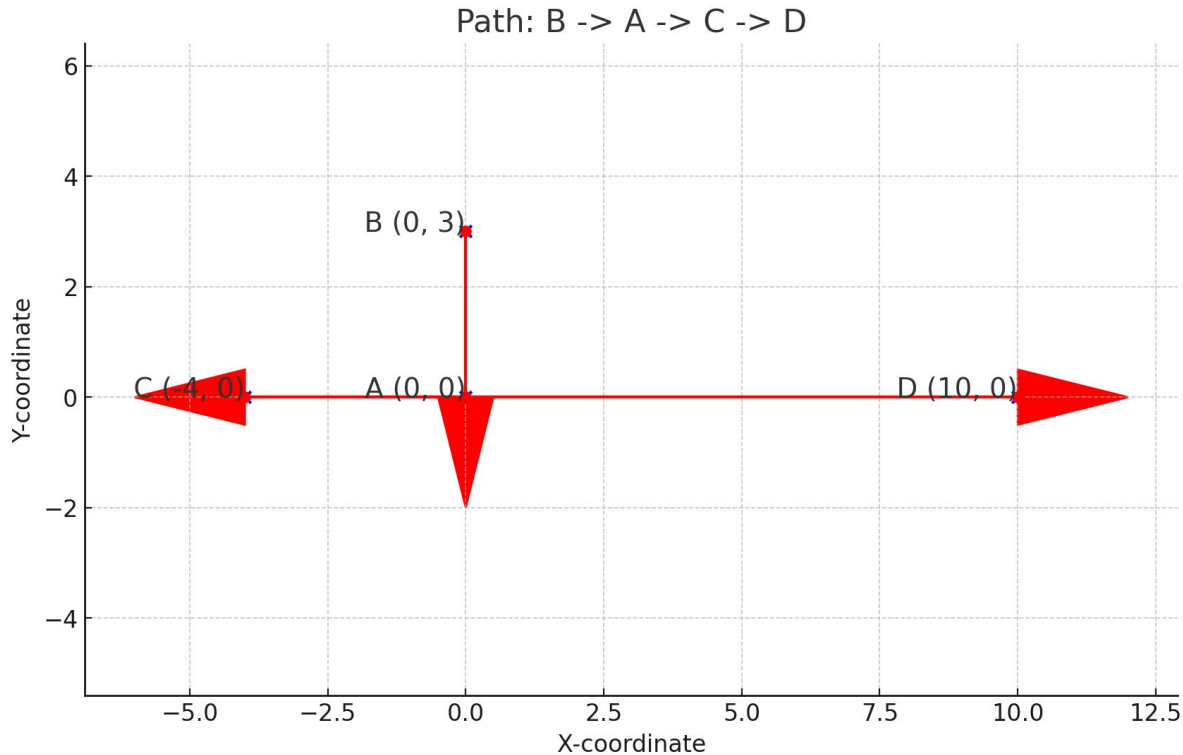
No links

Media type

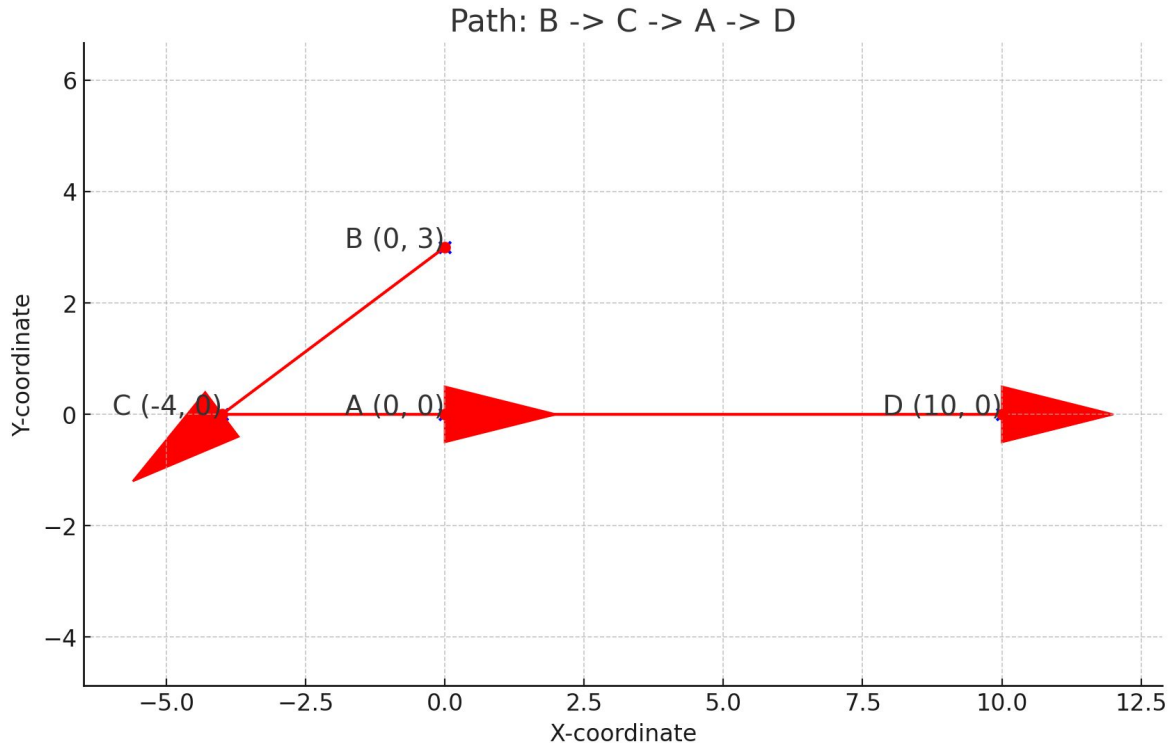
# Algorithm: Nearest Neighbor Search



# Algorithm: Nearest Neighbor Search?



# Algorithm: Dynamic Programming!



# Mapbox: Demo

