

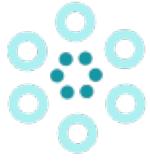


# NFC WEB APP

## PRESENTATION

CS631 2020FALL

Weixin Tang & Dairui Zhang



# Introduction

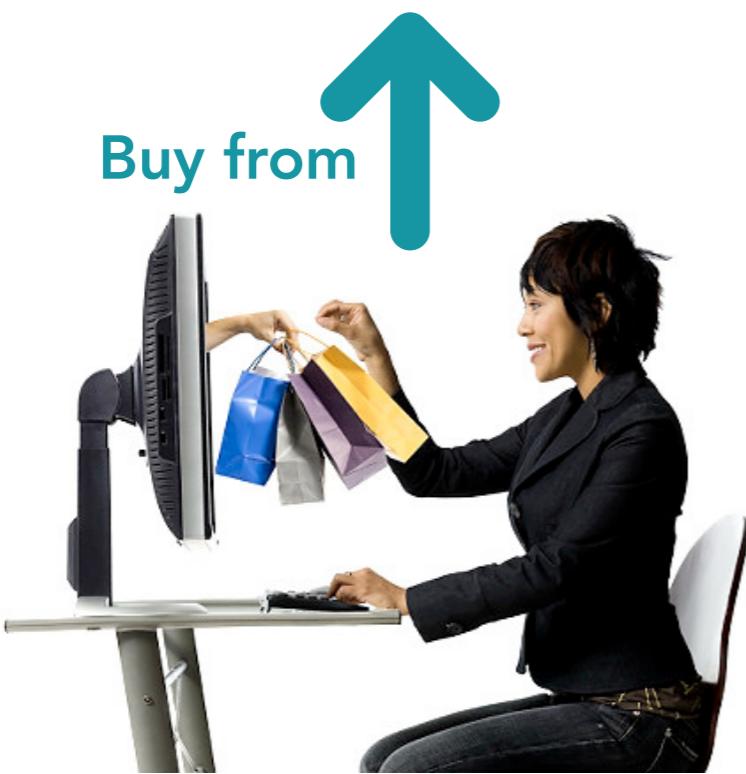
# About NFC

## NFC



Store

Small Businesses



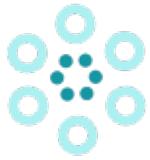
Buy from

Individual end users

# Project structure



# Mock-Up



**仓库管理**

NFC 管理平台 Admin 已登陆

客户管理 仓库管理 雇员管理

Warehouse List

搜索仓库 ID:  搜索

默认显示全部仓库table 检索后显示检索结果

仓库管理平台 Admin 已登陆

客户管理 仓库管理 雇员管理

Customer Management

仓库基本信息: Address: New York 货架个数: 001

仓库货架 格子容量: 10x10x10 Search

搜索状态是 empty 且长宽高都大于该商品的格子，即为 available。搜索用 text box 没区，省略了。

Shelf 1号

Inventory 存放信息 (该仓库内的) InvenID Shelf ID 格子ID 在库时间 Fee Time

NFC 管理平台 Admin 已登陆

客户管理 仓库管理 雇员管理

**第一层网站设计:** 左侧一级导航: 客户, 仓库, 雇员

NFC 管理平台 Admin 已登陆

客户管理 仓库管理 雇员管理

Customer List

等待处理的订单 Waitlist Add New

在 Waitlist 页面可以通过 customer 来发 order, create invoices 和给客户发送 invoices.

点击添加客户。

客户管理平台 Admin 已登陆

客户管理 仓库管理 雇员管理

Customer Management

客户基本信息: ID: 001 Name: Jack Shop

客户订单

可以折叠的标签卡

点点 submit 可以更改客户信息。

客户库存

点点修改 inventory 的存储位置 或者修改时找 employee

NFC 管理平台 Admin 已登陆

客户管理 仓库管理 雇员管理

**Wireframe** For The 3rd Layer (Individual User)

login.ejs

register.ejs

home.ejs

个人中心 (header, search, list)

account.ejs

购物车 cart.ejs

订单页面 createOrder.ejs

account.ejs

个人信息 (个人信息, 历史订单)

BANNER

nav: HOME Account Cart About welcome USER Logout

商品列表 (商品以列表形式)

搜索后显示搜索结果

ID: 名称 Price Seller 重量 +Cart

home.ejs

logo BANNER

个人信息: FirstName, LastName, mail, Telephone

订单信息:

订单ID: 下单时间: 运费: 收件人: 支付方式

运费信息: InvoicingID: Name: 单价: 线性单价

**End User Requirements**

- 创建用户 (注册)
- View Inventory From All stores
- Create Order
- Submit Order
- Check Order Status

# Mock-Up

The screenshot shows a web-based application interface with a light gray header bar containing a red circular icon, a search bar, and several navigation links: 'tier2-billing-storage', 'tier2-billing-selling', 'tier2-billing-balance', and 'tier2-storage-list'. The main content area has a light blue header labeled 'NFC'.

**Left Sidebar:** A vertical sidebar titled 'NFC' contains four items: 'billing', 'storage', 'order', and 'selling', each represented by a purple button.

**Central Panel:** The main panel is titled 'NFC' and features two large blue buttons with white text: 'Storage' with a plus sign and 'Item' with a plus sign. Below these buttons are sections for 'Item Info', 'Total Weight', 'Size', 'Space', 'Height', 'Width', and 'Length'. There is also a 'Pick Up Address' input field and a 'Select Available Instance' section with columns for 'Instance ID', 'Type', 'Location', and 'Status'.

**Bottom Right:** A large blue button labeled 'Shipping' is located at the bottom right of the central panel.

**Top Right:** A 'Weixin' button with a white circle icon is positioned in the top right corner of the main panel.

# Mock-Up

Call us: CS631-631-631 Email: CS631@teamwork.com

[Click here to be our business partner](#)

 NFC Newark Fulfillment Centers

SEARCH FOR PRODUCT 

Home Medicine PPE PETS About  Cart  Account  My Order

Home / Cart **CART**

Products	Price	Quantity	Total
 product name	\$50	<input type="button" value="1"/>	\$50
 product name	\$199	<input type="button" value="1"/>	\$199
 product name	\$199	<input type="button" value="1"/>	\$199
 product name	\$199	<input type="button" value="1"/>	\$199

  product name \$50  \$50

  product name \$199  \$199

  product name \$199  \$199

  product name \$199  \$199

**Cart Total**

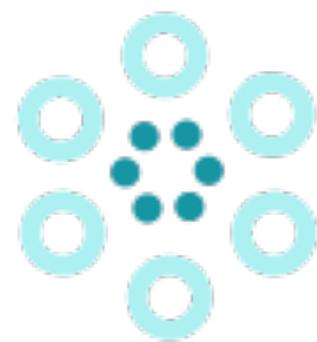
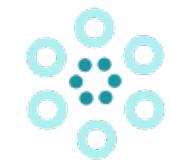
Sub-Total: \$647.00

Total: \$662.00 Shipping:\$15.00

**PROCEED TO CHECKOUT**

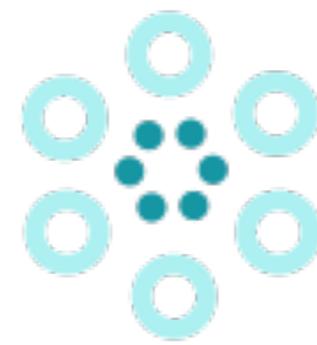
Copyright © 2020.NFC(Newark Fulfillment Centers) All rights reserved.

# Logo Design

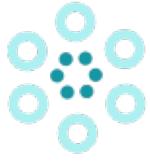


**NFC**

Newark Fulfillment Centers

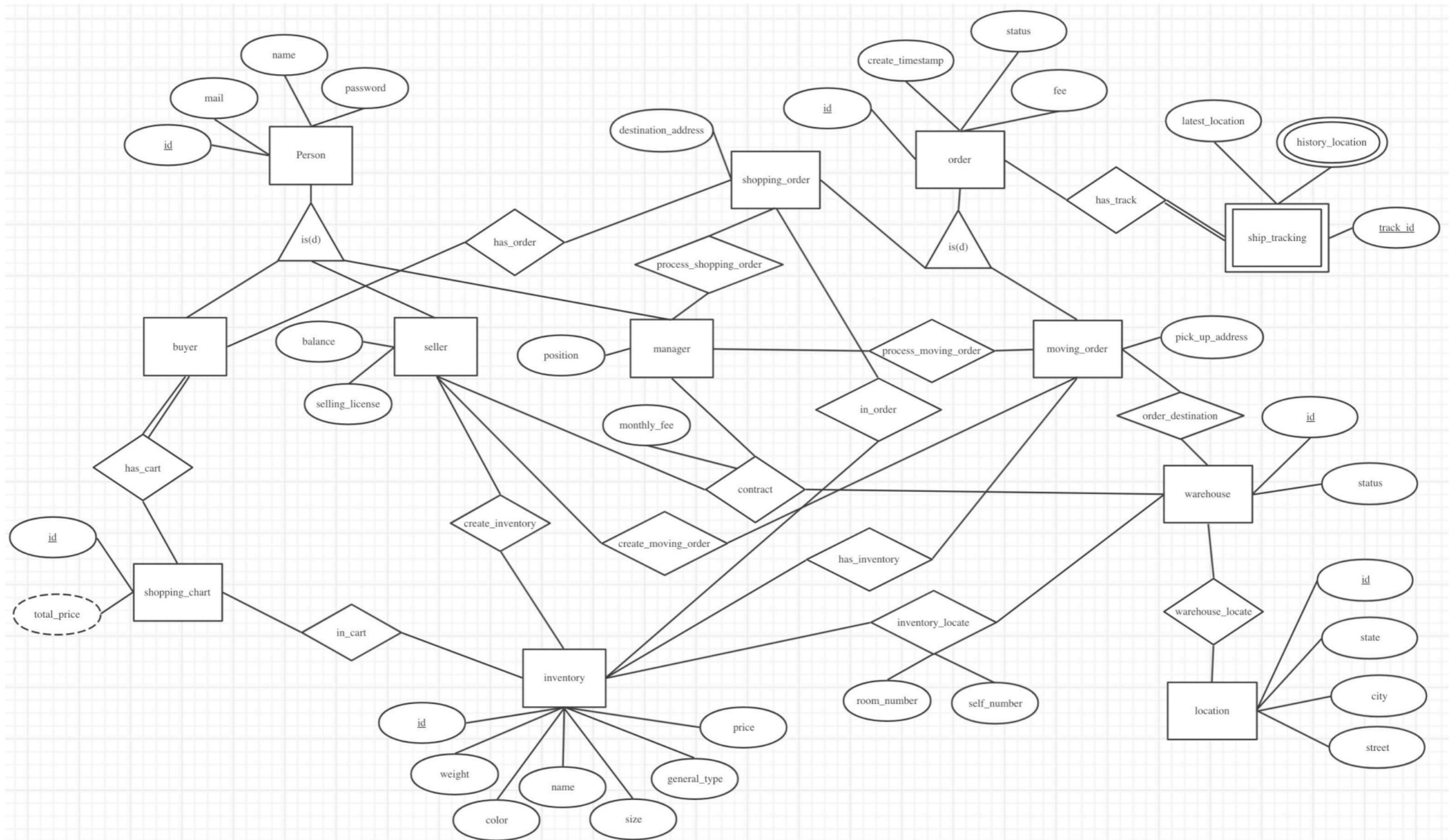


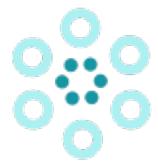
**NFC**  
**Back Office**



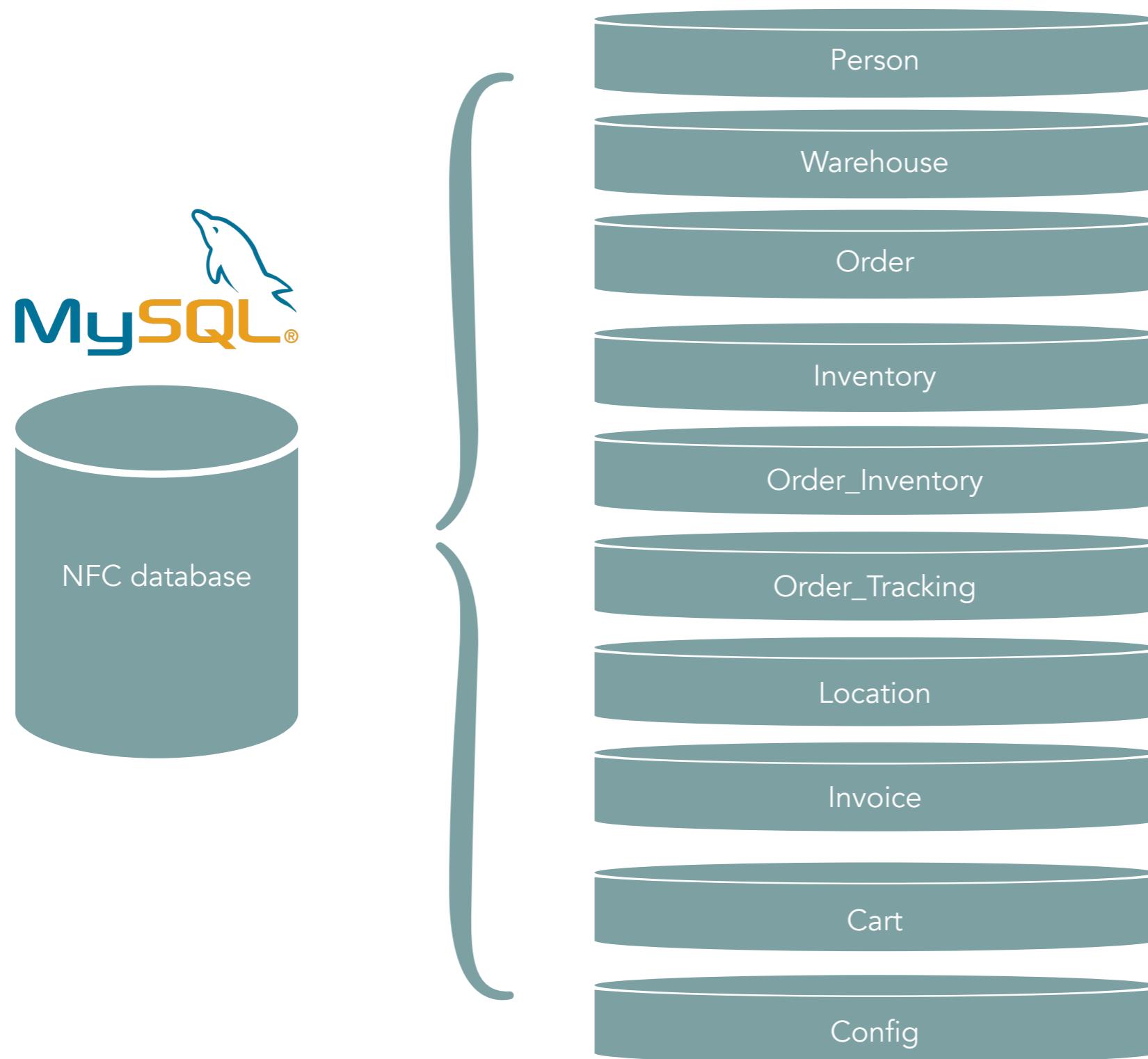
# Database Design

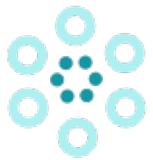
# ER-Diagram Design



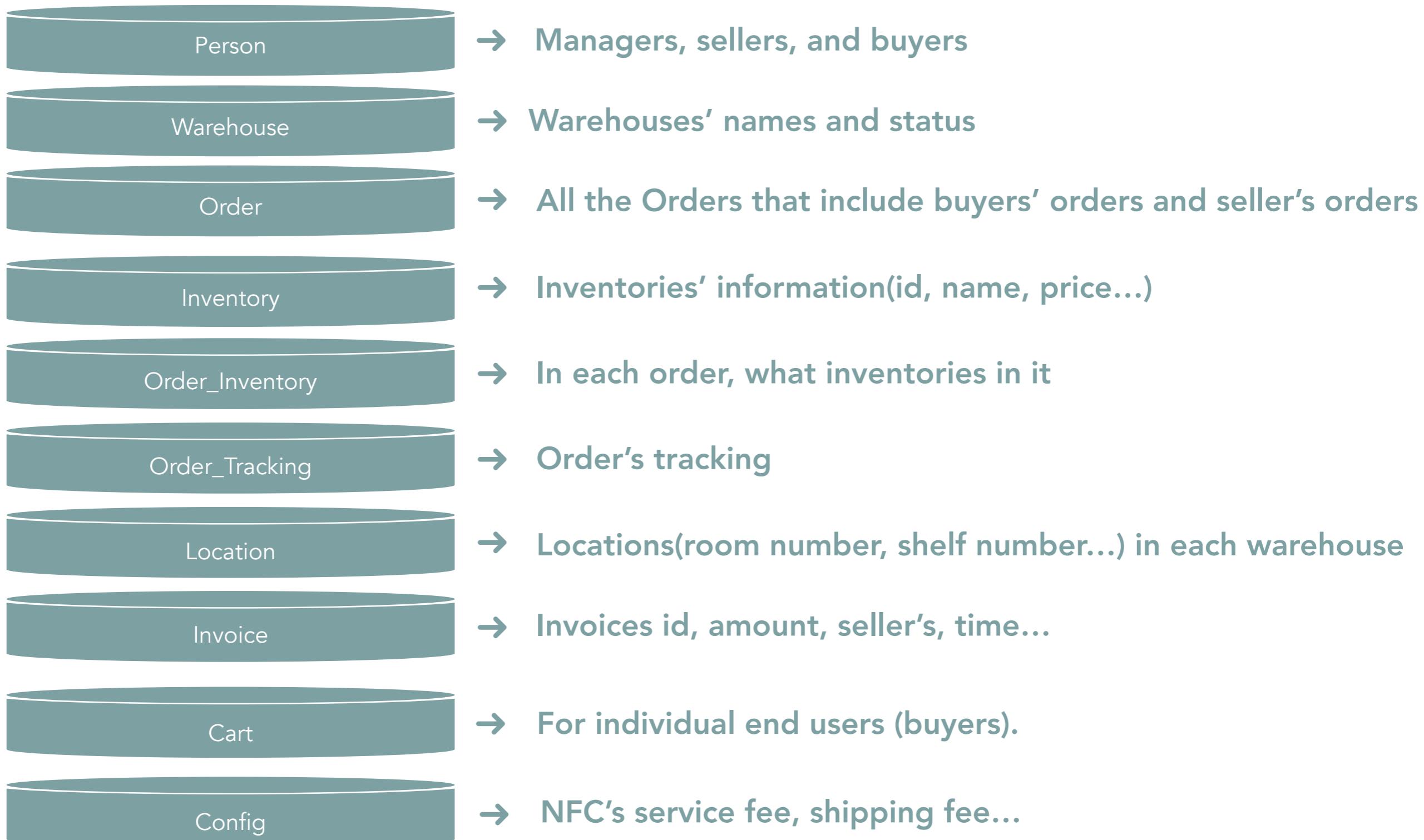


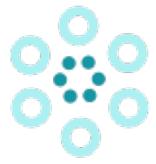
# Database in Development





# Database in Development





# Project achievement

(For The End-user Layer)

# Sign In / Sign Up

(End-user Layer)

The screenshot shows a web browser window with a teal header bar containing the text "Sign In / Sign Up (End-user Layer)". Below the header is a navigation bar with various icons and links. The main content area displays a login form on the left and a sign up form on the right. A red arrow points from the "Sign up" button in the login form's modal to the "Sign Up" section of the sign up form.

Call us: CS631-631-631 Email: dz9@njit.edu

NFC  
Newark Fulfillment Centers

Home Account About

**Log in**

Your email

Email

Your password

\*\*\*\*\*

Login

**Sign up**

**Sign Up**

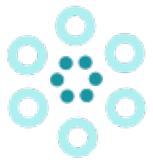
Email Address

Password

Password Again

Sign Up Now

Already a member? Click here



# Shopping

(End-user Layer)

Home http://localhost:5100

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NFC Newark Fulfillment Centers

Home Account ▾ About Cart

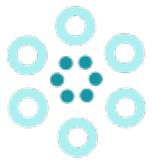
## Search

You can search product blow.

Product Name Here Search

[Click Here To Display All](#)

Product ID	Product	Price	Seller	Add
000000	gloves	10	peter	<span>Add to cart</span>
21113423	mask	10	wendy	<span>Add to cart</span>
324234	catfood	20	wendy	<span>Add to cart</span>



# Cart

(End-user Layer)

A screenshot of a web browser window displaying a shopping cart page. The browser's address bar shows the URL `http://localhost:5100/cart`. The page header includes the NFC logo and navigation links for Home, Account, and About. The main content area is titled "Your Cart" and contains a table with one item: a mask priced at \$10. The total cart amount is \$25.00, including shipping. A "PROCEED TO CHECKOUT" button is at the bottom.

Cart

http://localhost:5100/cart

腾讯云 Web開発パス(Node...) GitHub デザイン プログラミング 计划书指导 hexo相关 NJIT 早道 网课 656 chattingroom 630 631 5G SLBW 631项目第三层 survey paper

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NFC Newark Fulfillment Centers

Home Account ▾ About Cart

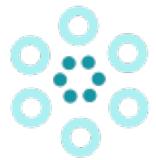
## Your Cart

Product ID	Products	Price	Delete
21113423	mask	10	

### Cart Total

Sub-Total: \$10.00
Total: \$25.00 <small>Shipping:\$15</small>

PROCEED TO CHECKOUT



# Submit Order

(End-user Layer)

① http://localhost:5100/createOrder

Web開発パス(Node... GitHub デザイン プログラミング 计划书指导 hexo相关 NJIT 早道 网课 656 chattingroom 630 631 5G SLBW 631项目第三层 survey pap

Call us: CS631-631-631 Email: dz9@njit.edu

NFC Newark Fulfillment Centers

Home Account About Cart

This is the page for confirming your order. Or you can [Click here](#) to back to your cart.

### Input Your Shipping Address 🚚

Address:

New Jersey Institute University

### Confirm Your Order 🛒

Product ID	Products	Price
21113423	mask	10

### Total

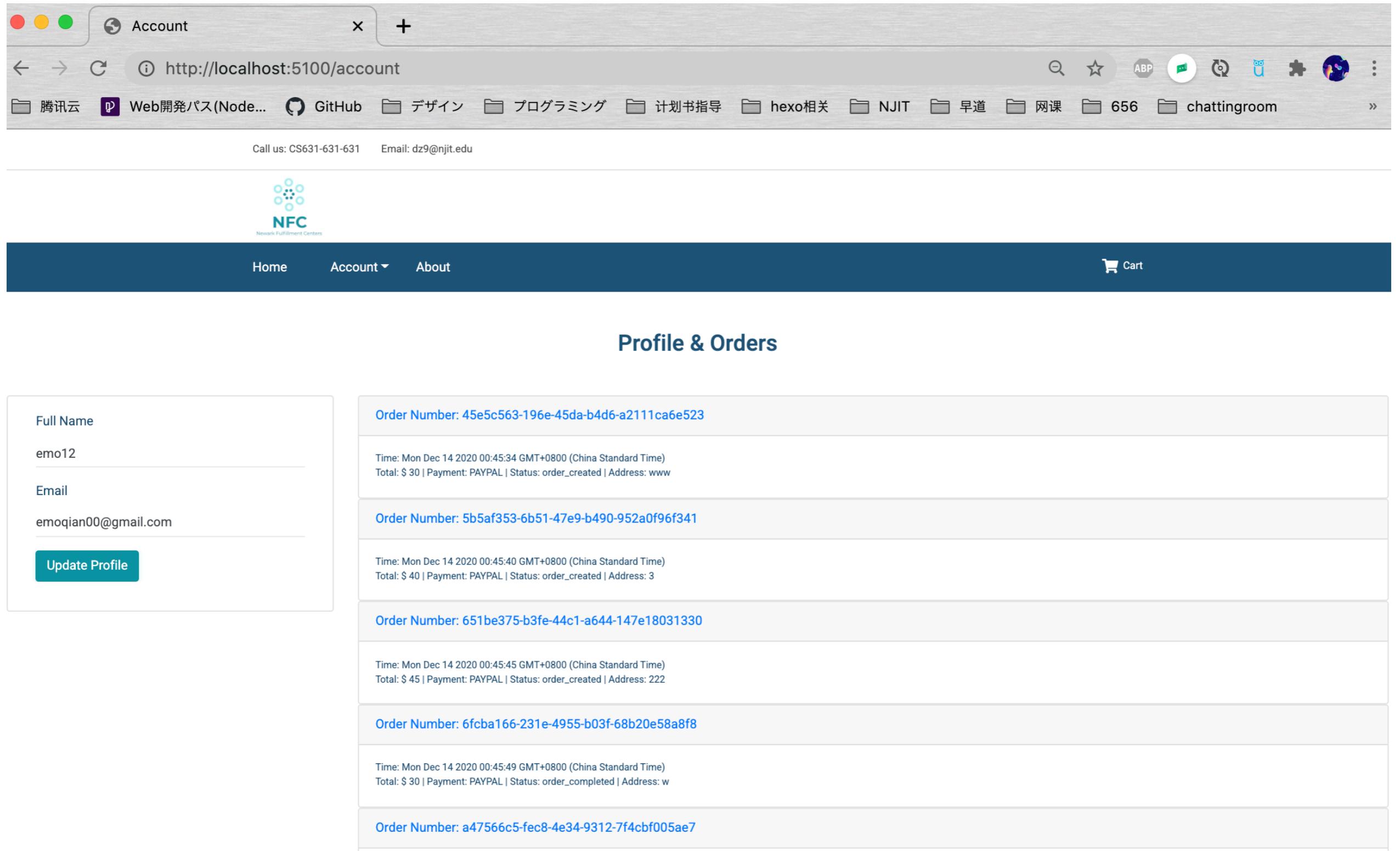
You will pay with PAY-PAL

Sub-Total: \$10.00
Total: \$25.00 Shipping:\$15

PAY AND SUBMIT ORDER

# Account

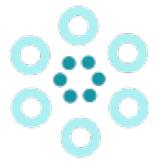
(End-user Layer)



The screenshot shows a web browser window titled "Account" at the URL "http://localhost:5100/account". The browser interface includes standard controls (red, yellow, green buttons, back/forward, search, etc.) and a toolbar with various icons. Below the toolbar, there's a navigation bar with links like "Home", "Account ▾", "About", and a "Cart" icon.

The main content area displays a "Profile & Orders" section. On the left, there's a sidebar for profile editing with fields for "Full Name" (emo12) and "Email" (emoqian00@gmail.com), and a blue "Update Profile" button. The main content lists five orders, each with a unique order number, creation time, total amount, payment method, status, and address. The first order is highlighted in blue.

Order Number	Time	Total	Payment	Status	Address
45e5c563-196e-45da-b4d6-a2111ca6e523	Mon Dec 14 2020 00:45:34 GMT+0800 (China Standard Time)	\$ 30	PAYPAL	order_created	www
5b5af353-6b51-47e9-b490-952a0f96f341	Mon Dec 14 2020 00:45:40 GMT+0800 (China Standard Time)	\$ 40	PAYPAL	order_created	3
651be375-b3fe-44c1-a644-147e18031330	Mon Dec 14 2020 00:45:45 GMT+0800 (China Standard Time)	\$ 45	PAYPAL	order_created	222
6fcba166-231e-4955-b03f-68b20e58a8f8	Mon Dec 14 2020 00:45:49 GMT+0800 (China Standard Time)	\$ 30	PAYPAL	order_completed	w
a47566c5-fec8-4e34-9312-7f4cbf005ae7					



# Project achievement

(For The Management Layer)

# Sign In / Sign Up

(Management Layer)

The screenshot shows a web browser window with the following details:

- Address Bar:** http://localhost:7000/login
- Page Title:** Account
- Header:** Home
- Toolbar:** Back, Forward, Refresh, Search, Favorites, ABP, etc.
- Bookmark Bar:** 腾讯云, Web開発パス(Node...), GitHub, デザイン, プログラミング, 计划书指导, hexo相关, NJIT, 早道, 网课, 656, chattingroom
- Logo:** NFC Back Office
- Navigation:** Customer, Inventory, Order, Warehouse, Employee
- Left Panel:** Log in form with fields for Email and Password, and a Login button.
- Right Panel (Overlaid):** Sign Up form with fields for Email Address, Password, Password Again, Full name, and position, and a Sign Up Now button.
- Annotations:** A red box highlights the "Sign up" button in the log in panel. A red arrow points from this button to the "Email Address" field in the sign up panel.

# Employee

(Management Layer)

The screenshot shows a web browser window with the following details:

- Address Bar:** http://localhost:7000/employee
- Page Title:** Account
- Header:** NFC Back Office
- Navigation:** Customer ▾, Inventory, Order ▾, Warehouse, Employee
- User Authentication:** admin:emoManager, LOG OUT
- Breadcrumbs:** Home / Employee List
- Table:** Employee List

Name	Position	Email
simon	regular employees	manager_a_@cs631njit.me
emoManager	admin	dz9@njit.edu
emo		464042992@qq.com
melon soda	CEO	melonsoda@cool.com

# Customer

(Management Layer)

The screenshot shows a web browser window with the following details:

- Address Bar:** http://localhost:7000/customerInfo
- Page Title:** Customer Management
- Header:** NFC Back Office
- Navigation:** Customer, Inventory, Order, Warehouse, Employee
- User:** admin:emoManager | LOG OUT
- Content:** A table listing customer information:

ID	Name	Type	Balance	mail	Edit	Invoices
07c33efa-3dd1-11eb-9699-acde48001122	emoseller	seller	0	emoqian@gmail.com	<a href="#">Edit</a>	<a href="#">Invoices</a>
0b12ba2a-3c0d-4fea-9cd4-01cb9de77616	test customer	seller	9	customer11@hwwwhh.com	<a href="#">Edit</a>	<a href="#">Invoices</a>
0f780bd6-d7e2-4d77-9e9c-057057a1de1a	Dairui	seller	48	dairui@1234.com	<a href="#">Edit</a>	<a href="#">Invoices</a>
54044e8d-e535-4394-bdfd-608736796385	Tom	seller	80	tom@ija.com	<a href="#">Edit</a>	<a href="#">Invoices</a>
663475f4-264f-4c75-bb2a-1b0ce4d2fc0	ABC Company	seller	80	abwwwcabc@njit.edu	<a href="#">Edit</a>	<a href="#">Invoices</a>
775c6876-2874-403d-9f11-b0ab27e0f2ca	Mary	seller	350	mary@111.com	<a href="#">Edit</a>	<a href="#">Invoices</a>
8948c6f4-3e1a-11eb-a1f5-acde48001122	weiseller	seller	-1	weixin@gmail.com	<a href="#">Edit</a>	<a href="#">Invoices</a>

# Customer

(Management Layer)

The screenshot displays the NFC Back Office interface with a teal header bar and a white content area.

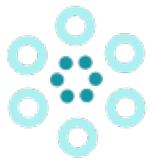
**Header:** The header features the NFC logo and the text "NFC Back Office". It includes a navigation menu with "Customer", "Inventory", "Order", "Warehouse", and "Employee" items, and a user session indicator "admin:emoManager" with a "LOG OUT" link.

**Left Window: Customer Edit**

- Customer ID:** 07c33efa-3dd1-11eb-a600-2cd618001122
- Customer Type:** loyal customer
- Form Fields:** Customer Full Name (emoseller), E-mail Address (emoqian@gmail.com).
- Buttons:** Change Customer Information (blue button).

**Right Window: Create New Customer**

- Title:** Create New Customer
- Text:** You can create a new account for your customer here. Please make sure that you have obtained the customer's business information before filling in the following information.
- Form Fields:**
  - Full Name (input field).
  - Type:
    - Select customer type (dropdown menu).
  - Password (input field) and ... (button). A note states: \*The default initial password is 123.
  - E-Mail (input field).
  - Balance (input field) with value 0.
- Buttons:** Create Customer Account (blue button).



# Order from sellers

(Management Layer)



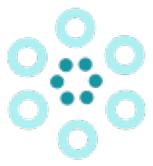
NFC  
Back Office

Customer ▾ Inventory Order ▾ Warehouse Employee

admin:emoManager LOG OUT

Home / Customer Order Management

Order_ID	Customer_ID	PaymentMethod	Manager_id	Order_status	Fee	Adress	Time	Operate
12132314	d5550168-3620-11eb-960c-acde48001122	paypal	72921503-1834-4bf9-9419-f89e2360225b	order_completed	100	sssss	Mon Dec 14 2020 02:39:56 GMT+0800 (China Standard Time)	<button>Detail</button>
328961d8-3e1b-11eb-a1f5-acde48001122	8948c6f4-3e1a-11eb-a1f5-acde48001122	paypal		order_completed	10	{"address": "1790 Findley Dr", "country": "United States", "state": "California", "zip": "95035"}	Mon Dec 14 2020 22:49:17 GMT+0800 (China Standard Time)	<button>Detail</button>
6979870809878708	123444344	cash	56aebed0-35ee-11eb-a9af-acde48001122	order_completed	100		Mon Dec 14 2020 02:20:48 GMT+0800 (China Standard Time)	<button>Detail</button>



# Order from sellers

(Management Layer)

Account Customer Order Details

http://localhost:7000/customerOrderDetail/12132314?

NFC Back Office

Customer Inventory

localhost:7000 の内容

Store Succeed

OK

admin:emoManager LOG OUT

Order ID: 12132314

Order Status: **order\_created**

When stored all the inventory, you can refresh this order's status by the button blow

Refresh Status

Now manager: 72921503-1834-4bf9-9419-f89e2360225b

Select Manager:

simon

Change Manager

Inventory List:

ID	Inventory_name	price	Length	Width	Height	Weight	Status
19689387492387042	cup	3	2	2	3	3	<b>Store</b>
873187409384092834	computer	200	5	5	5	5	Already Stored

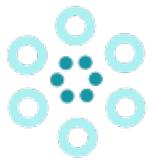
# Order from sellers

(Management Layer)

The screenshot shows a web browser window with the following details:

- Tab Bar:** Account, Customer Order Details, +
- Address Bar:** http://localhost:7000/customerOrderDetail/12132314?
- Toolbar:** 腾讯云, Web開発パス(Node...), GitHub, etc.
- Content Area:**
  - NFC Back Office** logo
  - Customer** and **Inventory** navigation links
  - Order ID:** 12132314
  - Order Status:** order\_created
  - A message: "When stored all the inventory, you can refresh this order's status by the button blow"
  - Refresh Status** button (highlighted with a red box and arrow)
  - Manager Selection:** Now manager: 72921503-1834-4bf9-9419-f89e2360225b, Select Manager dropdown (simon) and Change Manager button
  - Inventory List:**

ID	Inventory_name	price	Length	Width	Height	Weight	Status
19689387492387042	cup	3	2	2	3	3	Already Stored
873187409384092834	computer	200	5	5	5	5	Already Stored
- Modal Overlay:** A white box with "localhost:7000 の内容" and "Refresh Succeed" text, with an "OK" button.



# Order from sellers

(Management Layer)



NFC  
Back Office

Customer ▾ Inventory Order ▾ Warehouse Employee

admin:emoManager LOG OUT

Home / Customer Order / Customer Order Details

Order ID: 12132314

Order Status: **order\_completed**

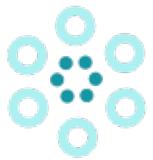
Now manager: 72921503-1834-4bf9-9419-f89e2360225b

Select Manager:

Change Manager

Inventory List:

ID	Inventory_name	price	Length	Width	Height	Weight	Status
19689387492387042	cup	3	2	2	3	3	Already Stored
873187409384092834	computer	200	5	5	5	5	Already Stored



# Order from buyers

(Management Layer)

Account End-user Order Management

http://localhost:7000/orderEnd

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NFC Back Office

Customer Inventory Order Warehouse Employee admin:emoManager LOG OUT

Home / End-user Order Management

Order_ID	Customer_ID	PaymentMethod	Order_status	Fee	Adress	Time
45e5c563-196e-45da-b4d6-a2111ca6e523kkk	122a572a-841d-4fc9-ae2c-6f7cd4c6dcf6	paypal	order_created	30	www	Mon Dec 14 2020 00:45:34 GMT+0800 (China Standard Time)
5b5af353-6b51-47e9-b490-952a0f96f341kkk	122a572a-841d-4fc9-ae2c-6f7cd4c6dcf6	paypal	order_created	40	3	Mon Dec 14 2020 00:45:40 GMT+0800 (China Standard Time)
651be375-b3fe-44c1-a644-147e18031330kkk	122a572a-841d-4fc9-ae2c-6f7cd4c6dcf6	paypal	order_created	45	222	Mon Dec 14 2020 00:45:45 GMT+0800 (China Standard Time)
6fcba166-231e-4955-b03f-68b20e58a8f8kkk	122a572a-841d-4fc9-ae2c-6f7cd4c6dcf6	cash	order_completed	30	w	Mon Dec 14 2020 00:45:49 GMT+0800 (China Standard Time)
a47566c5-fec8-4e34-9312-7f4chf005ae7kkk	122a572a-841d-4fc9-ae2c-6f7cd4c6dcf6	balance	order_created	30	2222	Mon Dec 14 2020 00:45:54 GMT+0800 (China Standard Time)

# Invoices

(Management Layer)

The screenshot shows a web browser window with the following details:

- Title Bar:** Account - Create Invoices
- Address Bar:** http://localhost:7000/makeInvoices/0f780bd6-d7e2-4d77-9e9c-057057a1de1a?
- Toolbar:** Includes standard browser controls (Back, Forward, Stop) and various extension icons.
- Page Header:**
  - NFC Back Office logo
  - Navigation links: Customer, Inventory, Order, Warehouse, Employee
  - User info: admin:emoManager and LOG OUT
- Breadcrumbs:** Home / Customer Management / Create Invoices
- Section Title:** Create Invoices
- Text:** NOTICE: You are creating new invoices for:  
Customer ID: **0f780bd6-d7e2-4d77-9e9c-057057a1de1a**  
Customer Name: **Dairui**
- Form Fields:**
  - Seller ID: 0f780bd6-d7e2-4d77-9e9c-057057a1de1a
  - Employee ID: 6750c66c-bdc4-4db4-9476-8817b88bd037
  - Balance Now: 48
  - Amount: 15 \* The amount of money must be an integer.
  - Description: description here
- Buttons:** Send Invoice

# Invoices

(Management Layer)



Customer ▾ Inventory Order ▾ Warehouse Employee

admin:emoManager

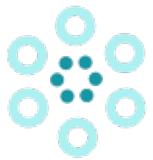
[LOG OUT](#)

Home / Customer Management / Create Invoices



## Send Invoice Succeed!

[Click here to back to customer list page](#)



# Warehouse

(Management Layer)

Screenshot of a web browser window showing the 'Warehouse Management' page at <http://localhost:7000/warehouseInfo>. The browser has tabs for 'Account' and 'Warehouse Management'. The address bar shows the URL. The page contains a navigation bar with links for Customer, Inventory, Order, Warehouse, Employee, and a user account section.



Customer ▾

Inventory

Order ▾

Warehouse

Employee

admin:emoManager

[LOG OUT](#)

[Home](#) / [Warehouse Management](#)

Name	Status	Operate
New Jersey Warehouse	full	<a href="#">Details</a>
New York Warehouse	empty	<a href="#">Details</a>

# Locations

(Management Layer)

The screenshot shows a web browser window with the title bar "Warehouse Management". The URL in the address bar is "http://localhost:7000/warehouseLocation/New%20York%20Warehouse?". The page header includes the "NFC Back Office" logo, navigation links for Customer, Inventory, Order, Warehouse, and Employee, and a user account section for "admin:emoManager". The main content area is titled "Warehouse: New York Warehouse" and contains a table listing two warehouse locations:

ID	Inventory	room_number	shelf_number	Length	Width	Height	Operate
1		2	2	2	3	4	<button>Edit</button>
2		3	3	3	4	3	<button>Edit</button>

# Locations

(Management Layer)

The screenshot shows a web browser window with the following details:

- Address Bar:** http://localhost:7000/editLocation/2?
- Toolbar:** Includes standard browser controls (Back, Forward, Stop, Refresh) and various extension icons.
- Bookmark Bar:** Contains links to "Account", "Location Management", and other local and external sites like GitHub, hexo相关, NJIT, etc.
- Header:** NFC Back Office logo and navigation menu: Customer, Inventory, Order, Warehouse, Employee.
- User Information:** admin:emoManager and LOG OUT link.
- Breadcrumbs:** Home / Location Edit
- Main Content:**
  - Section Header:** Location: 2
  - Text:** ROOM: 3 | SHELF: 3
  - Form Fields:** Location IN (New York Warehouse), Location Inventory ID (empty).
  - Note:** (You can remove an inventory from this location by leaving this blank.)
  - Section Header:** Size Setting
  - Form Fields:** Length (3), Width (4), Height (3).
  - Buttons:** Edit Location (highlighted in blue).

# Inventory

(Management Layer)

Inventory Management

http://localhost:7000/inventory

NFC Back Office

Customer ▾ Inventory Order ▾ Warehouse Employee

admin:emoManager LOG OUT

Home / Inventory Management

Show inventory:

prestore ▾ Show

Click Here To Display All

ID	Name	Type	Status	Length	Width	Height	Weight	Price	Warehouse	Seller	Operate
000000	gloves	type1	sell					10		peter	Edit
19689387492387042	cup		store	2	2	3	3	3	New Jersey Warehouse	peter	Edit
21113423	mask	type1	sold	2	2	2	2	10	weser	wendy	Edit
324234	catfood		sell					20		wendy	Edit
873187409384092834	computer		store	5	5	5	5	200	New York Warehouse	peter	Edit
f8e47b0e-0b22-5404-8cb8-e6030700c1e7	medical mask	PPE	sold	1	1	1	1	100	New York Warehouse	weiseller	Edit

# Inventory

(Management Layer)

Account x Inventory Management x +

http://localhost:7000/editInventory/f8e47b0e-0b22-5404-8cb8-e6030700c1e7?

腾讯云 GitHub デザイン プログラミング 计划书指导 hexo相关 NJIT 早道 网课 656 chattingroom

NFC Back Office

Customer ▾ Inventory Order ▾ Warehouse Employee

admin:emoManager LOG OUT

Home / Inventory Management / Inventory Edit

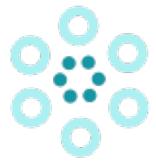
**Inventory ID :f8e47b0e-0b22-5404-8cb8-e6030700c1e7**

Seller-id: 8948c6f4-3e1a-11eb-a1f5-acde48001122

Inventory Name: medical mask

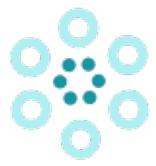
Inventory Price (\$): 100

Edit Inventory



# Technical details

(For The End-user Layer and Management Layer)

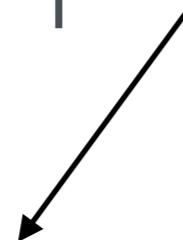


# Frontend



## Bootstrap 4

- Responsive grid system
- Prebuilt components



Add to cart

NFC  
Back Office

admin:emoManager LOG OUT

Home / Employee

Customer

Create New

Customer Operation

Inventory

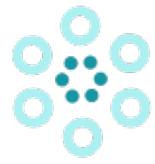
Order

Warehouse

Employee

Name	Position	Email
simon	regular employees	manager_a_@cs631njit.me
emoManager	admin	dz9@njit.edu
emo		464042992@qq.com
melon soda	CEO	melonsoda@cool.com

# Frontend



### Sign Up

emoqian00@gmail.com

.

.....

**Password need to be the same!** (The text 'Password need to be the same!' is enclosed in a red box.)

**Sign Up Now**

Already a member? Click here

NFC  
Network Fulfillment Centers

Home Account ▾ About Cart

### Your Cart

Product ID	Products	Price	Delete
000000	gloves	10	
324234	catfood	20	

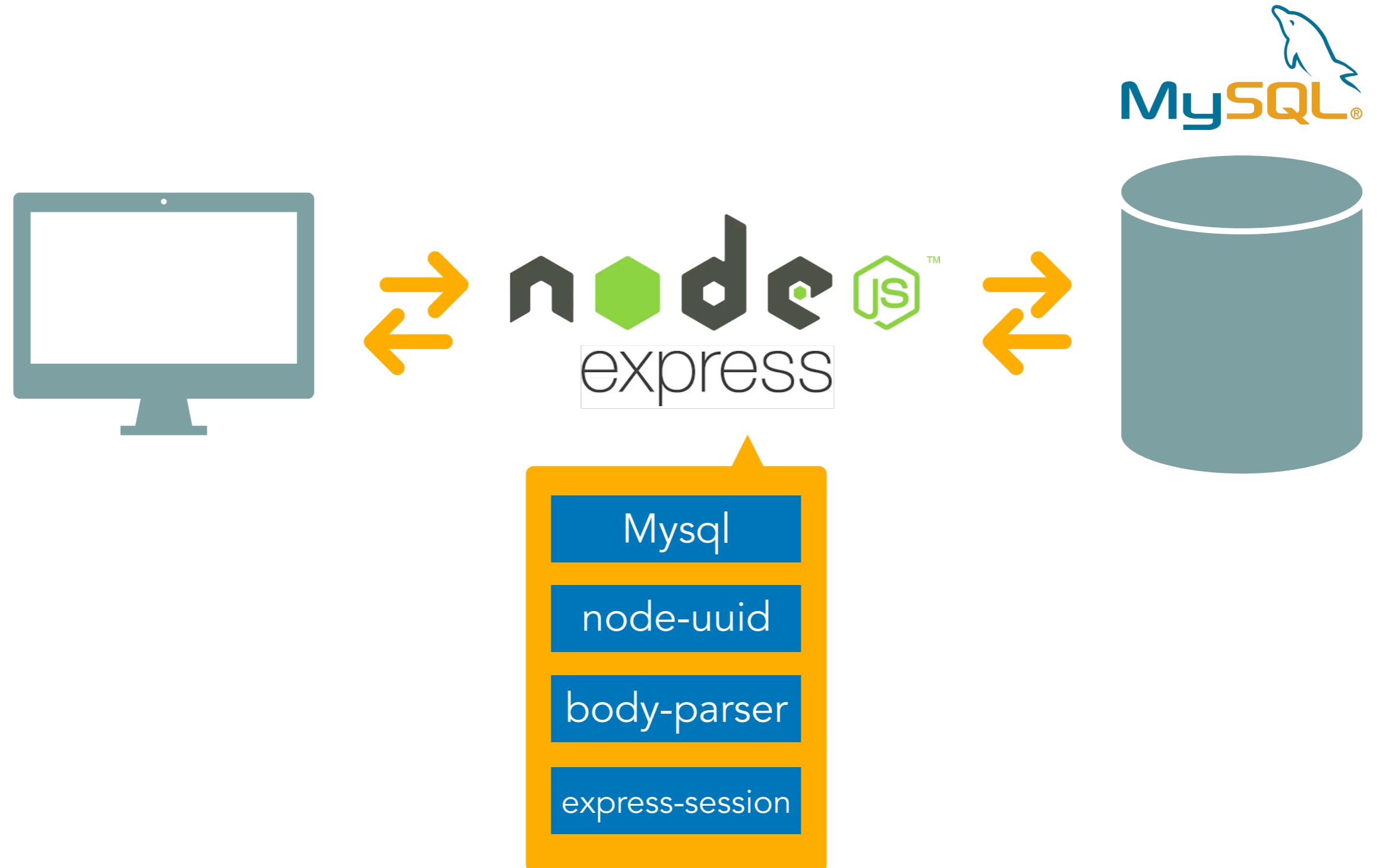
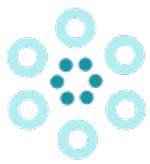
**Cart Total**

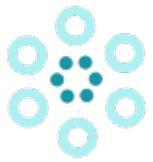
Sub-Total: \$30.00

Total: \$45.00 Shipping:\$15

**PROCEED TO CHECKOUT**

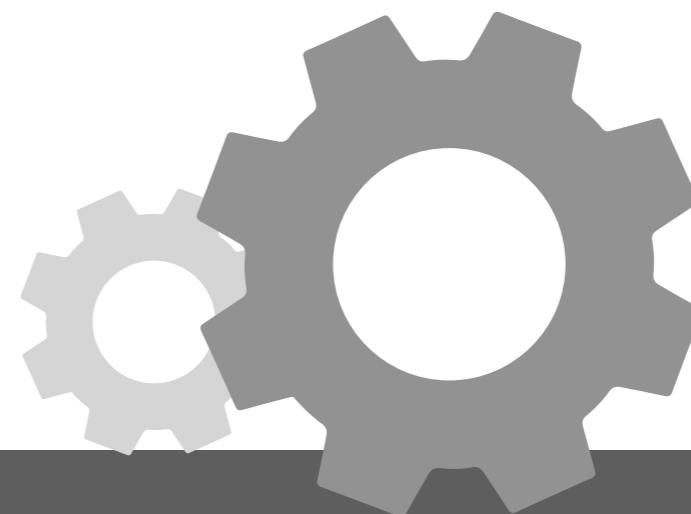
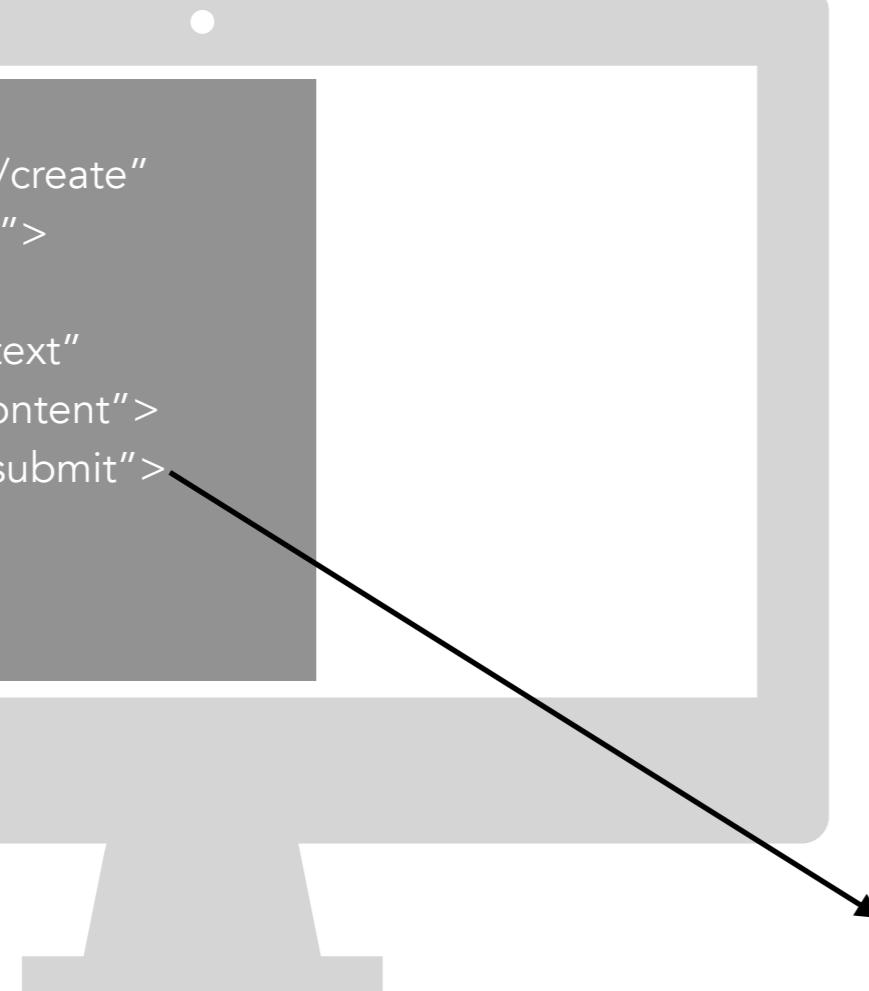
# Server Side



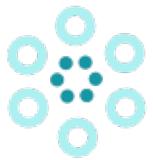


# Client-Server Communication

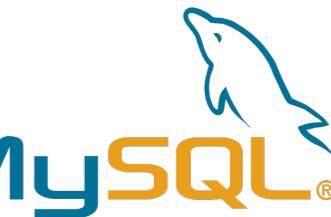
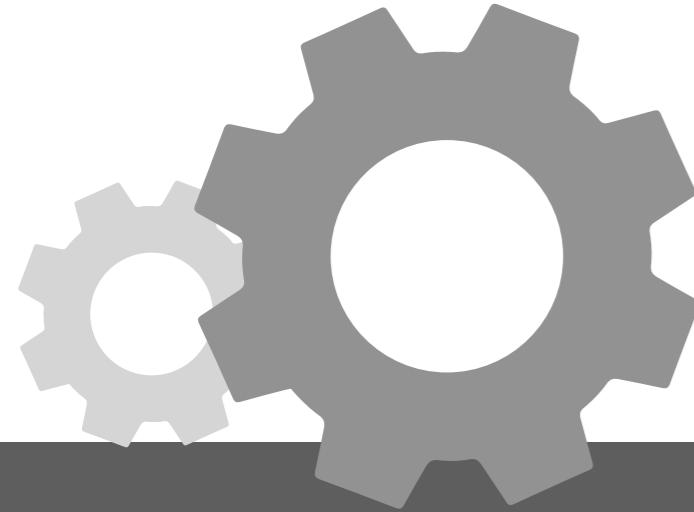
```
<form action="/create"  
method="post">  
  
<input type="text"  
name="postContent">  
<input type="submit">  
  
</form>
```



```
app.post('/create', (req, res) => {  
  //...database operation  
})
```



# Server-Database Communication



```
var mysql = require('mysql');
const connection = mysql.createConnection({
//Database information
});
connection.query(
//...SQL here
)
```



order_id	user_id	order_type	payment_method	many
12132314	d5550168-3620-	seller_order	paypal	729
328961d8-3e1b-11eb-a1f1	8948c6f4-3e1a-1	seller_order	paypal	(NU)
45e5c563-196e-45da-b4	122a572a-841d-4	buyer_order	paypal	(NU)
5b5af353-6b51-47e9-b4	122a572a-841d-4	buyer_order	paypal	(NU)
651be375-b3fe-44c1-a6	122a572a-841d-4	buyer_order	paypal	(NU)
6979870809878708	123444344	seller_order	cash	562
6fcba166-231e-4955-b0	122a572a-841d-4	buyer_order	cash	(NU)
a47566c5-fec8-4e34-93	122a572a-841d-4	buyer_order	balance	(NU)
bcdeadd5-cc0d-4ba1-9b	f06cb8fd-3dc2-4	buyer_order	paypal	(NU)



# seller sign in & sign up

NFC (Seller Edition)



Email address

Password

Nickname

**SIGN UP**

[Sign in](#)

© Newark Fullfillment Center YingWu College NJIT

NFC (Seller Edition)



Email address

Password

**SIGN IN**

[Sign up](#)

© Newark Fullfillment Center YingWu College NJIT



# Create shipping order

NFC (Seller Edition)  Hi, weiseller(licensed customer) ▾

**Create moving order**

Inventory Name   
Select Type

Expect Fee **0**  
**Total (USD)** **\$ 0**

Length  m      Width  m      Height  m  
Length in meter      Width in meter      Height in meter

Wight  kg      Desitination Warehouse

**Add Inventory to Order**

---

**Added Inventory in this order**

**Pick up Address**

1234 Main St

Country  State  Zip

---

**Payment**

Paypal  
 Cash on Pick Up



# Observe Inventory



NFC (Seller Edition)



store inventory

Hi, weiseller(licensed customer) ▾

## My Inventory

\* inventory in store status can change to sell status and set price

Name ▼

Enter search key works here

ALL ▼

ALL ▼



#	ID	name	type	status	more
1	f8e47b0e-0b22-540...	medical mask	PPE	sold	⋮

warehouse:  
New York Warehouse

Inventory Price :

100

\$

confirm



height : 1 m

width : 1 m

length : 1 m

weight : 1 kg



# Observe Shopping Order



NFC (Seller Edition)



store inventory

Hi, weiseller(licensed customer) ▾

## Shopping order

\* Here , you could see all related buyer's order that bought your inventory

#	Order ID	Pay	Fee	Status	Buyer	Time	More
1	ff52036d-86be...	paypal	115\$	order_created	emo12	Dec 14 2020	⋮

Address: 4defdfsdfs

#	id	name	type	status	price
1	f8e47b0e-0b22-5404-8cb8-e6030700c1e7	medical mask	PPE	sold	100 \$



# Observe Shipping Order



NFC (Seller Edition)

store inventory

Hi, weiseller(licensed customer) ▾

## Shipping order

\* Here , you could see all orders about the your inventories send to warehouse

#	Order ID	Pay	Fee	Status	Responsor	Time	More
1	328961d8-3e1...	paypal	10\$	order_completed		Dec 14 2020	:

address : 1790 Findley Dr

country : United States

state : California

zip : 95035

#	id	name	type	status
1	f8e47b0e-0b22-5404-8cb8-e6030700c1e7	medical mask	PPE	sold



# Balance & Invoice



NFC (Seller Edition)



store inventory

Hi, weiseller(licensed customer) ▾

## Billing

remaining credit: **9.0 \$**

Top Up

### History Balance

-1.0 \$

### Recent Charges

+ 10 \$

### Remaining Credit

9.0 \$

#	Description	Date	Balance	Amount
invoice 2	User Top Up	Dec 15 2020	-1.0 \$	+ 10 \$
invoice 1	ssssdddssaa	Dec 14 2020	0.0 \$	-1 \$



# Enable Store



NFC (Seller Edition)



Hi, weiseller(licensed customer) ▾

## Newark Fulfillment Center

Obtain a selling license, you could not just store the inventory in our fulfillment center , but sell your inventory for making money

### Loyal Customer

**\$0 / mo**

view own inventory  
search own inventory  
view order history  
10 days shipping guarantee

[Back To Normal Plan](#)

### Licensed Seller

**\$29 / mo**

all free user features  
enable store  
fast 3 days pick up  
ask technique supporter

[Current Plan](#)



# Project Design

brief introduction the database design



# Front Web Design



Billing

Billing			
Make Payment	Limits	History	
<b>-\$3.91</b> Account Balance	<b>\$0.58</b> Charges This Month	<b>=</b>	<b>\$3.33</b> Remaining Credit
			<a href="#">+</a>
<b>Description</b>	<b>Date</b>	<b>Amount</b>	<b>Balance</b>
Invoice #14188000	2020-12-01	\$3.89	\$-3.91
Invoice #13956706	2020-11-01	\$3.09	\$-7.80
Invoice #13722715	2020-10-01	\$3.55	\$-10.89



NFC (Seller Edition)      store inventory      Hi, peter(licensed customer) ▾

## Billing

remaining credit: **320.0 \$**      [Top Up](#)

**History Balance**      120.0 \$

**Recent Charges**      + 200 \$

**Remaining Credit**      320.0 \$

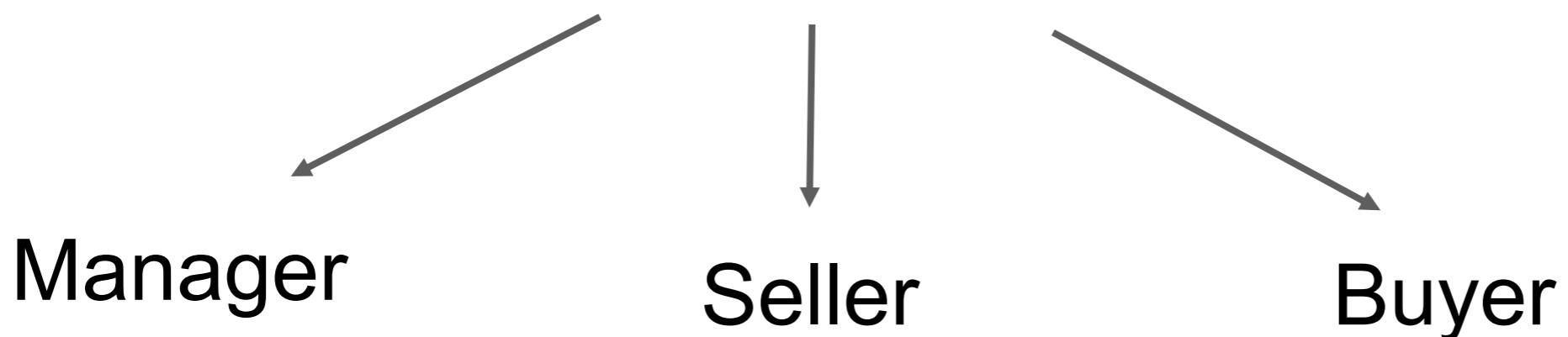
#	Description	Date	Balance	Amount
invoice 5	User Top Up	Dec 13 2020	120.0 \$	+ 200 \$
invoice 4	User Top Up	Dec 13 2020	90.0 \$	+ 30 \$
invoice 3	User Top Up	Dec 13 2020	70.0 \$	+ 20 \$
invoice 2	User Top Up	Dec 13 2020	20.0 \$	+ 50 \$
invoice 1	User Top Up	Dec 13 2020	0.0 \$	+ 20 \$

Vultr's Server Management Website



# Person Table

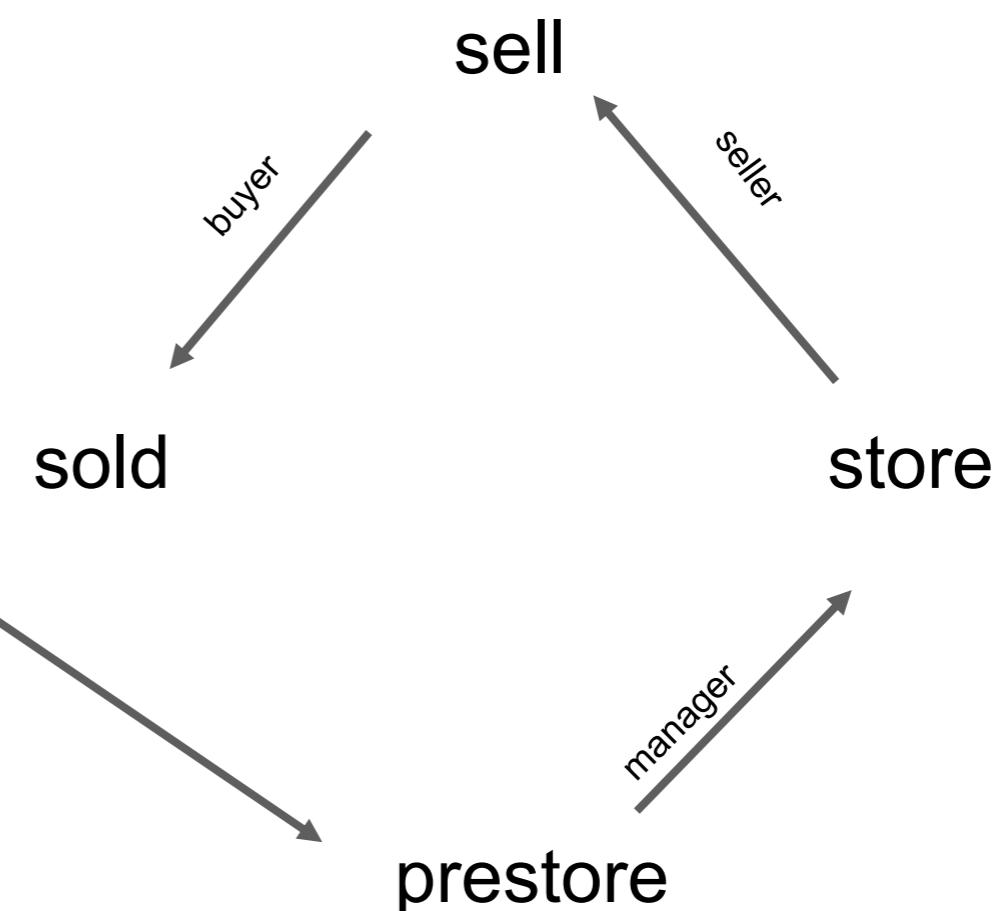
```
CREATE TABLE IF NOT EXISTS Person(  
    person_id char(64) primary key ,  
    type char(32),  
    position char(32),  
    balance double DEFAULT 0,  
    mail char(64) ,  
    name char(64) ,  
    password char(64) ,  
    CONSTRAINT layer_key UNIQUE ( mail , type )  
);
```





# Inventory Table

```
CREATE TABLE IF NOT EXISTS Inventory(  
    id char(64) primary key,  
    name char( 64 ) ,  
    type char(32) ,  
    status char(32),  
  
    length double ,  
    width double ,  
    height double ,  
    weight double ,  
  
    price double ,  
    warehouse_id char(64),  
    seller_id char(64)  
);
```





# Programming Experience

discussion a major trouble we meet , and  
how we solve it

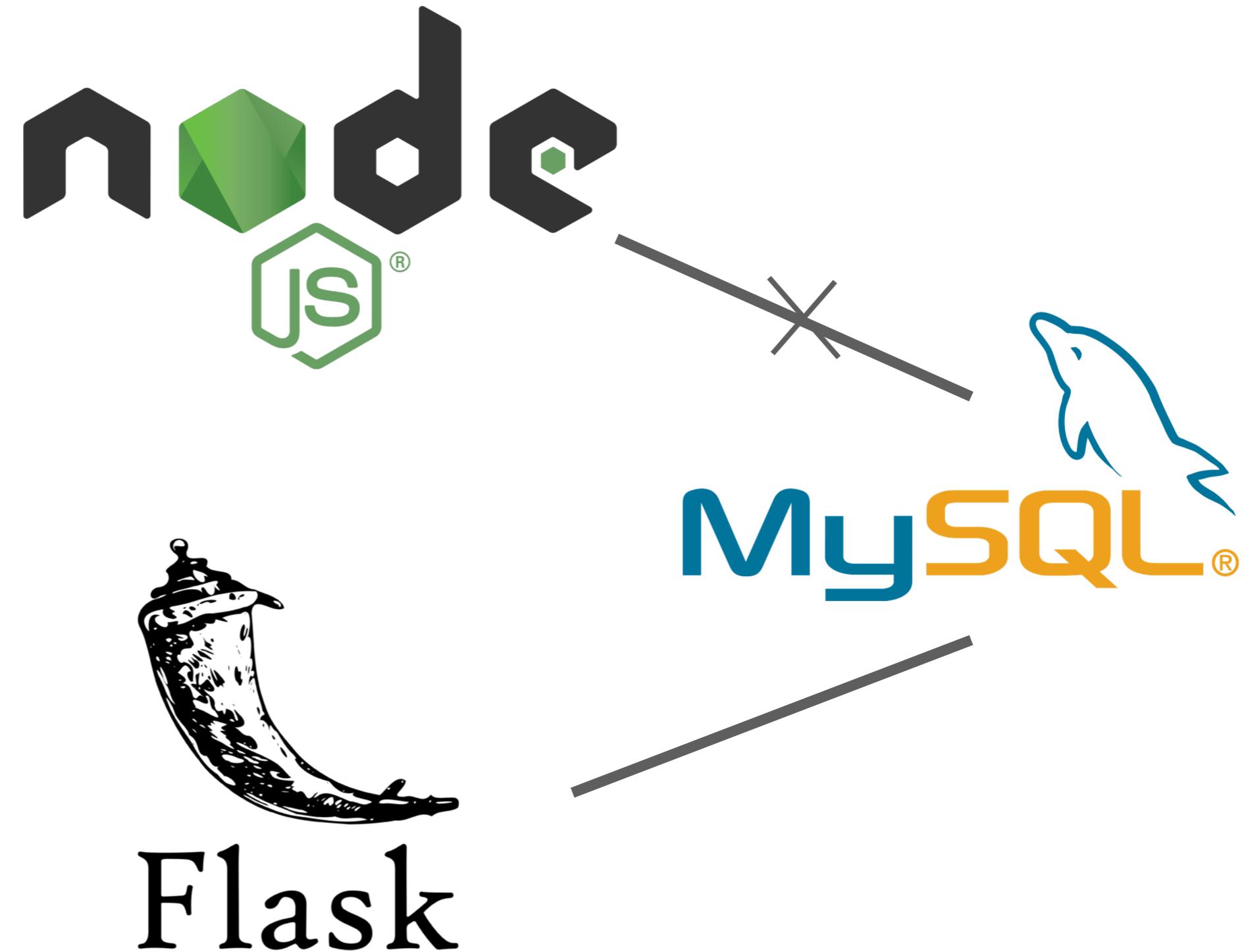


# Trouble in connect server's Mysql use Node

Manager Layer

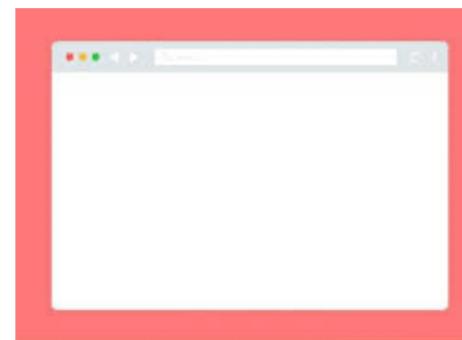
Buyer Layer

Seller Layer





# Trouble in connect server's Mysql use Node



shutterstock.com • 1412244710  
Assume Viewer Browser  
Locate In New Jersey



Google Cloud

Locate in the South of China ( using nginx reverse proxy with certificate encryption from let's encrypt 3X )



Partner's laptop locate in the North of China ( where actually host the NFC project )



# THANK YOU!