IEXII CSS

A smart express service platform

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A smart express service platform

Our project background

The development of computer technology has a great impact on our daily life and production activities. The development of computer network promotes online shopping, which makes the express business more busy.

In order to help the express station to better manage the express delivery, improve the efficiency of express delivery. We designed an express management system——iExpress.











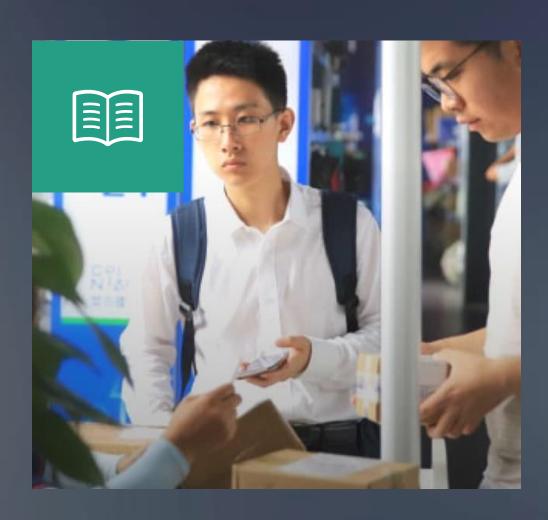


What is iExpress

iExpress is an express management network platform for community and campus, which provides **convenient and efficient** express delivery, check express delivery and express pick-up services.

iExpress is divided into two parts. Customer can pick up express delivery, make online booking for express delivery, and query package information through **mini programs on Wechat**. Express Station staff manage the express site through the background management system based on **Web pages**, including express management, employee management, warehouse management, package order management, and pick-up message management.

Project characteristic



Simple and efficient

no advertising and complicated functions. Designed to be simple and practical

Complete and practicable

Including express delivery, express delivery, inquiry express. The function is complete and practical.

Separate foreground and backgrounde

Devided into two parts, Wechat mini program and Web. Clear division of work between front and rear platforms

Development Environment

Foreground

Wechat

- Use the 'mini program' on Wechat.
- Include wxml,wxss,js
- NodeJS environment of Tencent Cloud server

Background

Vue.js

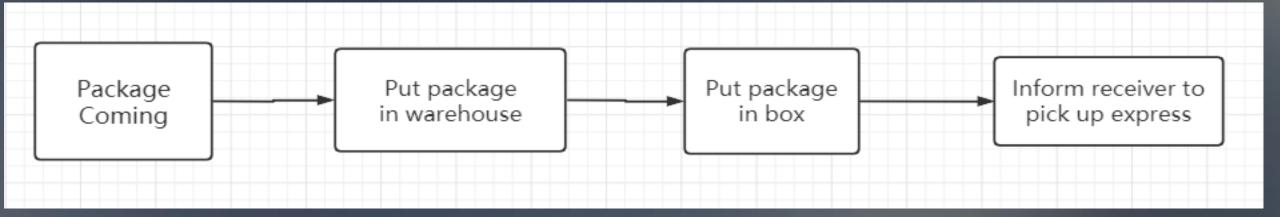
- Based on Web Page
- Vue+Vue-Router+Vueaxios+VueX
- Element UI

Server

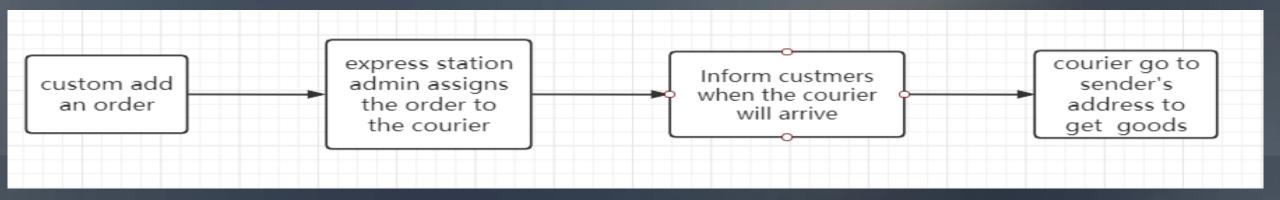
Springboot

- Springboot
- Mybatis
- JWT

When Someone's package arrives



If someone wants to send an express





Functionalities

Foreground System for users and Background System for administrators

An overview of functionalities

In addition to basic functions like registration and login, functionalities of foreground system can mainly be divided into four modules, which are personal information management, order management, package management, message acquairement.

01 Personal Information Management

- · Users can view their personal information including nickname, phone number and address.
- · Nickname and address can be changed at any time, but phone number has no permission to be changed because it has been tied to the account

Order Management

02

- · Users can order to send packages by filling an form and submitting it through the system.
- · Orders been submitted can be checked by status including 'on going', 'completed' and 'cancelled'.
- · Before the employee come to pick the package, users can cancel the order .

Package Management

03

- · Users can view the packages sended to them whether they are received or unreceived. They are displayed by different status including 'unreceived', 'received' and 'faulty'.
- · If the package is unreceived, then users can choose to receive the package themselves. This situation mainly occours when the system goes wrong and didn't change the status timely.

Message acquairement

04

· In the other system, messages, like noticing users to take express delivery and reminding users that their orders has been underway, will be sended to users. So through the message page, users can receive and check the notice.

注册昵称: dbj 手机号: 13127525101 密码: ●●●●●●● 性别: 男 ✓ 女 注意: 本程序不提供验证手机号功能,请用户自觉输入正确手机号以便享受更多功能。手机号绑定后不可修改,请谨慎操作。 注册

已有账号?返回登陆



Register

Users new to the system can register for an account. In this page, a user just only need to input his/her nickname, phone number, password and check his/her sex, and then he/she can create an account. It should be noted that phone number verification service is not available for the time being. Users must be responsible for the phone number used to register, as the number will be an important proof to log in and enjoy other functions. What's more, the system will report an error if users input too long nickname or password, or the phone number has already been registered.



Login

Users already having account should input his phone number and password registered correctly to log in the system. The system will check both after users submit their input and return the result. If a wrong phone number or password is submitted, the system will return the warning and refuse to pass the user. If user logs in successfully, pages will be switched to center page.



Check information

After logging in the system, usersAcan pick into their information page and check their personal information. Nickname, phone number, address are displayed. These informations are used to make it convenient for users when filling the order.

Change information

Through the page left, users can change their personal information. The province, city and region can be picked automatically, considering user convenience.





Order to send

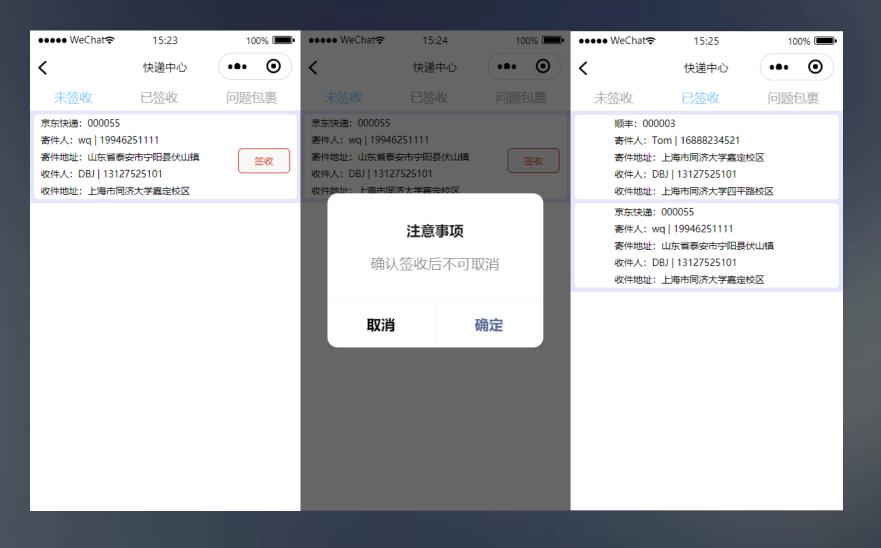
The system provides an important function for users which is ordering to send expressages without going to a courier station. Users can make an order through the following steps:

Firstly, users need to choose a logistics company users would like to transport their packages; Secondly, users are required to input their information as sender's information which can be filled quickly by clicking the middle button; Thirdly, a receiver's information is also needed because it determines whether the package can be correctly sended to the receiver;

Finally, users just need to choose a date when employees will come to pick the package. Attenion that the date must be after the time order been created and no later than three days.

Every step finished, users should click the black button to continue the process.

View and recieive packages

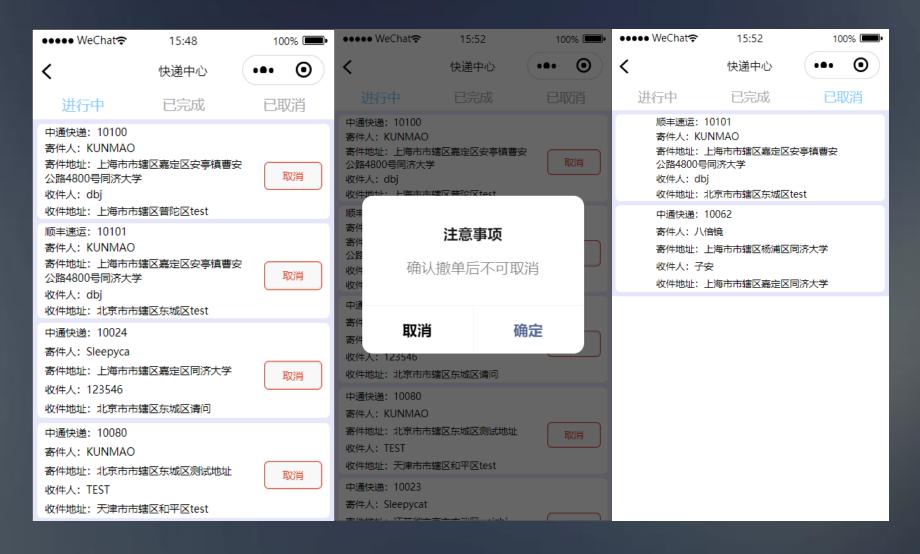


Users can click into the page listing all the packages he will received or has received.Packages are divided into three types, users view specific type of packages by clicking the header which lines the types of packages.

When a user is viewing unreceived packages, he/she can choose to receive the package himself/herself since the system may go wrong that it didn't change the packages' status when the user has received them in station. What is to be noted is that once the receipt is confirmed, it cannot be cancelled.

Users can find the package he/she just received in page of received packages.

View and cancel order



Users can click into the page listing all the orders he has made. Orders are divided into three types, users view specific type of orders by clicking the header which lines the types of orders.

Before employees come to pick packages, users can cancel the order if he/she has regretted. In order page, unpicked orders are listed and each has a button right. Users click the button and cancel the corresponding order, then the cacelled order will appear in the list of cancelled orders.

Attention that once the order is cancelled, it cannot be recovered.



Acquire messages

In the other system, messages like noticing users to pick expressages and reminding users that their orders has been in process will be sended to users. So through the message page, users can receive and check the notice. The latest message will be show alone in the page, unless users choose to show all. It's a pity that users cannot recieve the message if they haven't logged in the system. Due to the time limitation, we can only show messages in this page.

Overview

Express Station staff use the backstage part of the system, that is, web part, including user login, registry, delivery, collection, express management, warehouse capacity management, employee management and message management.

Employee Management

Message Management

Package inbound

Package management

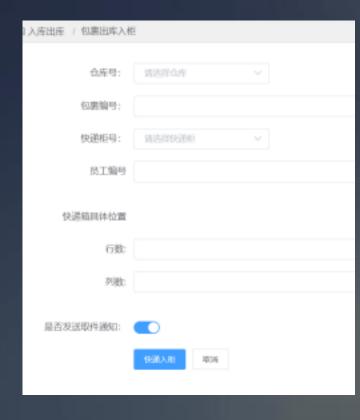
Order Management

Package storage

Warehouse capacity query

Locker capacity query

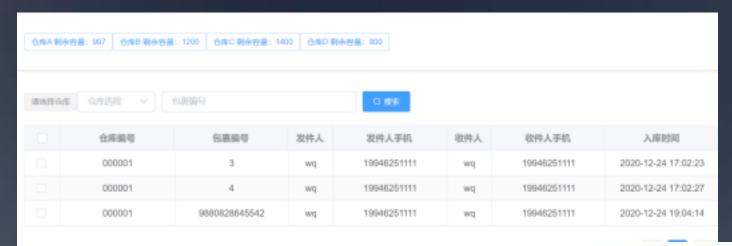








In the first part, the simulation of package entry and exit and signature, because we do not have real express cabinets, warehouses, scanners and so on, we have a simple simulation of express delivery, express delivery, express receipt and receipt

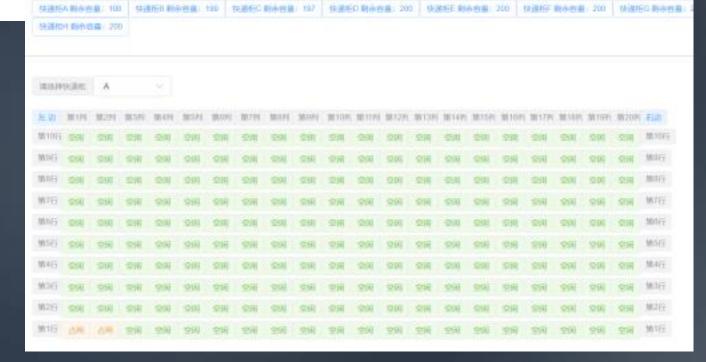




仓库容量查询

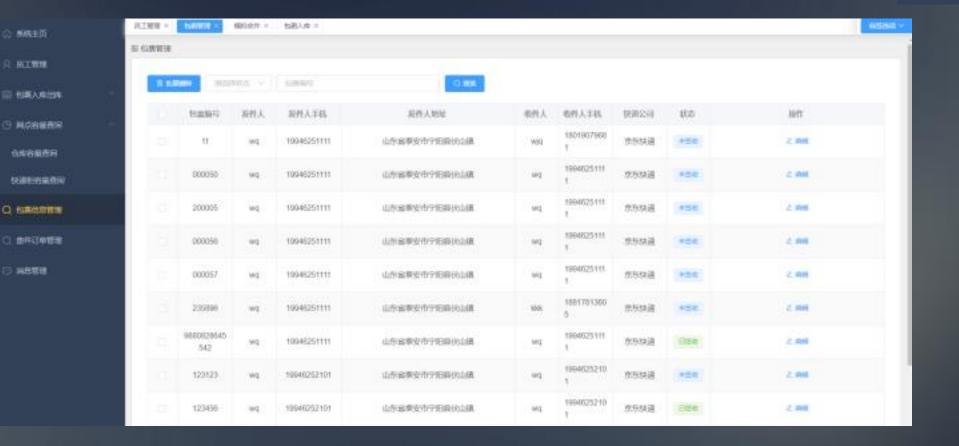
快递柜容量查询

Part Two, Capacity Information
Queryln these two pages, the
warehouse information can be viewed,
such as how much remaining capacity
the warehouse currently has, or the
package information under the
warehouse, which packages can be
queried in the current warehouse. In
the second page can be viewed on the
express cabinet information.



○ 包裹信息管理

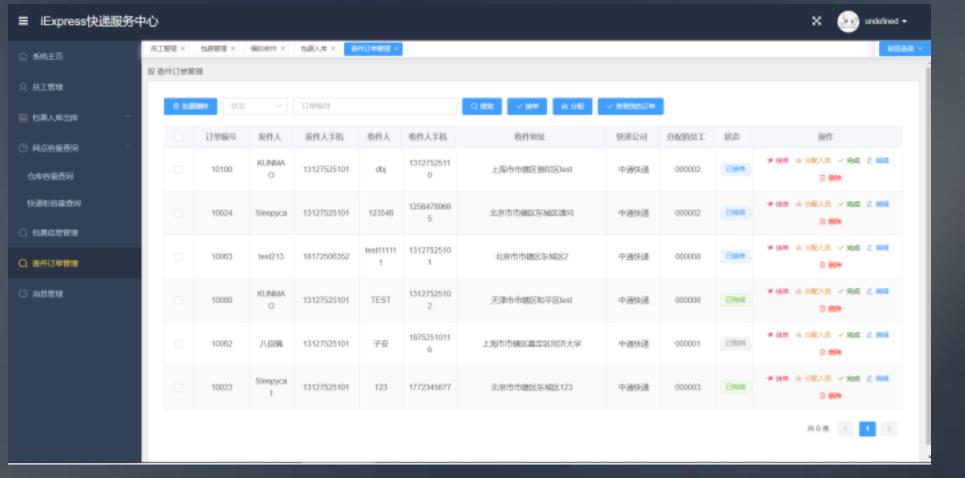
高件订单管理



Package Information
ManagementYou can
manage all package
information from here,
and you can edit and
query it. Supports
status query, package
ID query, and package
traceability.

○ 包裹信息管理

高件订单管理



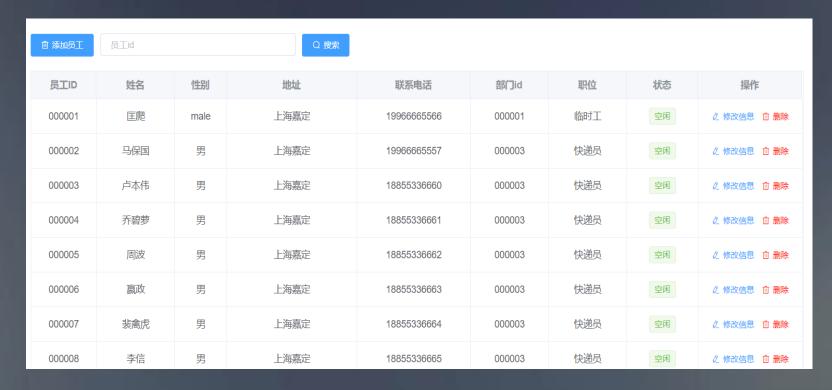
Order Information
ManagementYou can
manage all package
information from here,
you can accept orders,
assign orders, complete
orders, edit, query
operations.



Message Management

Express station staff view the list of message in the syetem and perform some operations.

- Delete message
- Resend message
- Search message



Employee Management

Express station staff view the list of employees in the syetem and perform some operations.

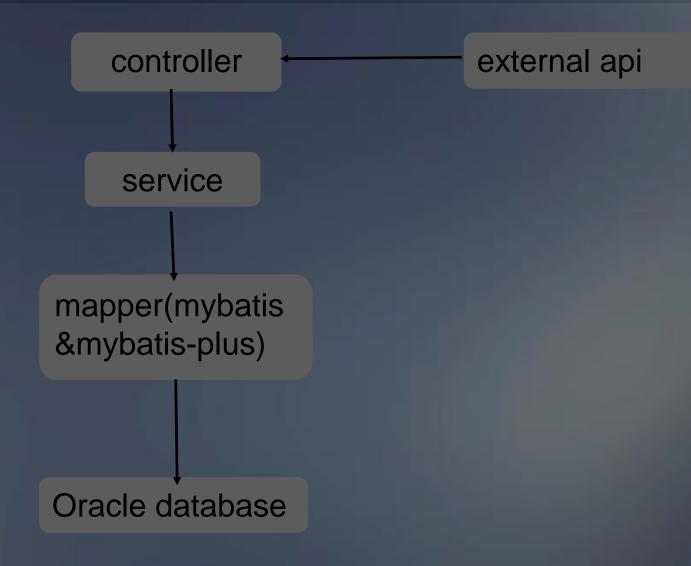
- Add employee
- Delete employee
- Modify information of employee

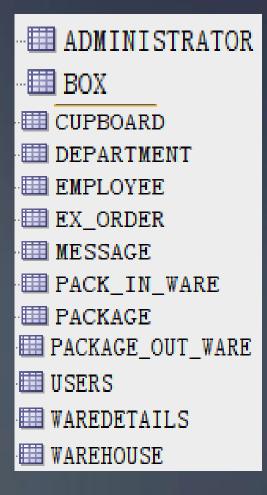


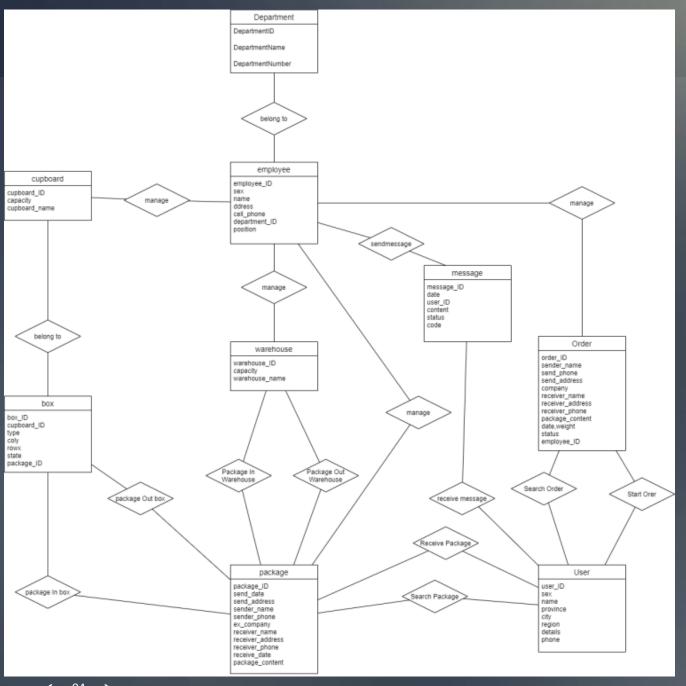
Design

Architecture and Components Functionalities and Interfaces Database

Architecture







▼ III ADMINISTRATOR

- ADMIN_NAME VARCHAR2(20)
- PASSWORD VARCHAR2(20)
- **EMPLOYEE_ID** VARCHAR2(20)

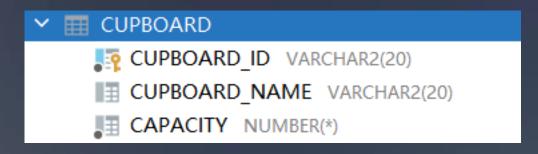
■ USERS

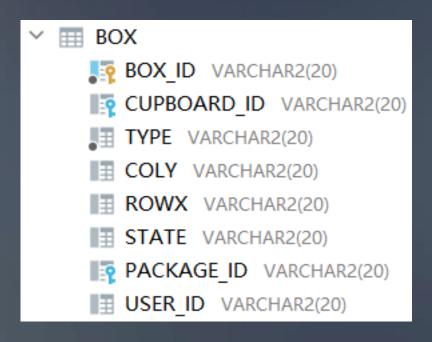
- USER_ID VARCHAR2(20)
- SEX VARCHAR2(10) = NULL
- NAME VARCHAR2(20)
- PROVINCE VARCHAR2(20) =
- PASSWORD VARCHAR2(20)
- III CITY VARCHAR2(20) = '直辖市
- III REGION VARCHAR2(20) = '嘉
- III DETAIL VARCHAR2(100) = 首

- **№ DEPARTMENT_ID** VARCHAR2(20)
- DEPT_NAME VARCHAR2(20)
- DEPT NUMBER VARCHAR2(20)

✓ III EMPLOYEE

- **EMPLOYEE ID** VARCHAR2(20)
- SEX VARCHAR2(20)
- NAME VARCHAR2(20)
- ADDRESS VARCHAR2(20)
- **CELL_PHONE** VARCHAR2(20)
- DEPARTMENT_ID VARCHAR2(20)
- POSITION VARCHAR2(20)
- STATUS VARCHAR2(20)





WAREHOUSE
WAREHOUSE_ID VARCHAR2(20)
WAREHOUSE_NAME VARCHAR2(20)
CAPACITY VARCHAR2(20)

- PACK IN WARE
 - PACKAGE_ID VARCHAR2(20)
 - **WAREHOUSE_ID** VARCHAR2(20)
 - **EMPLOYEE_ID** VARCHAR2(20)
 - IN_DATE DATE

- - SENDER_PHONE VARO
 - SENDER_ADDRESS VA
 - COMPANY VARCHAR2

 - RECEIVER_ADDRESS V
 - RECEIVER_PHONE VAF

- ✓ III EX_ORDER
 - SENDER_NAME VARCH

 - RECEIVER_NAME VARG

- PACKAGE_CONTENT
- 🏢 ORDER_DATE DATE (au
- WEIGHT FLOAT(*) (auto
- STATUS VARCHAR2(20)
- EMPLOYEE_ID VARCHA

- PACKAGE
 - PACKAGE_ID VARCHAR2(20)
 - SEND_DATE DATE
 - SENDER_ADDRESS VARCHAR2(100)
 - SENDER NAME VARCHAR2(20)
 - SENDER_PHONE VARCHAR2(20)
 - COMPANY VARCHAR2(20)
 - RECEIVER_NAME VARCHAR2(20)
 - RECEIVER_PHONE VARCHAR2(20)
 - RECEIVER_ADDRESS VARCHAR2(100)
 - RECEIVE_DATE DATE
 - PACKAGE CONTENT VARCHAR2(20)
 - STATUS NUMBER(*) = 0
 - **WEIGHT** FLOAT(*) = 1
- → PACKAGE OUT WARE
 - PACKAGE_ID VARCHAR2(20)
 - **WAREHOUSE_ID** VARCHAR2(20)
 - OUT_DATE VARCHAR2(20)
 - **EMPLOYEE_ID** VARCHAR2(20)
 - BOX_ID VARCHAR2(20)
 - MESSAGE_ID VARCHAR2(20)



- MESSAGE_ID VARCHAR2(20)
- SEND_DATE VARCHAR2(20)
- USER_ID VARCHAR2(20)
- CONTENT VARCHAR2(300)
- MESSAGE_TYPE VARCHAR2(20)
- STATUS VARCHAR2(20)



Team Collaboration

Team Collaboration

- Github Collaborative Development
- separation of front-end and backend
- agile development



Important Issues

Important issue

- Using token to protect data
- The interation between front-end and backend
- deployment

THANKS

Make you different