

JFK courier delivery process

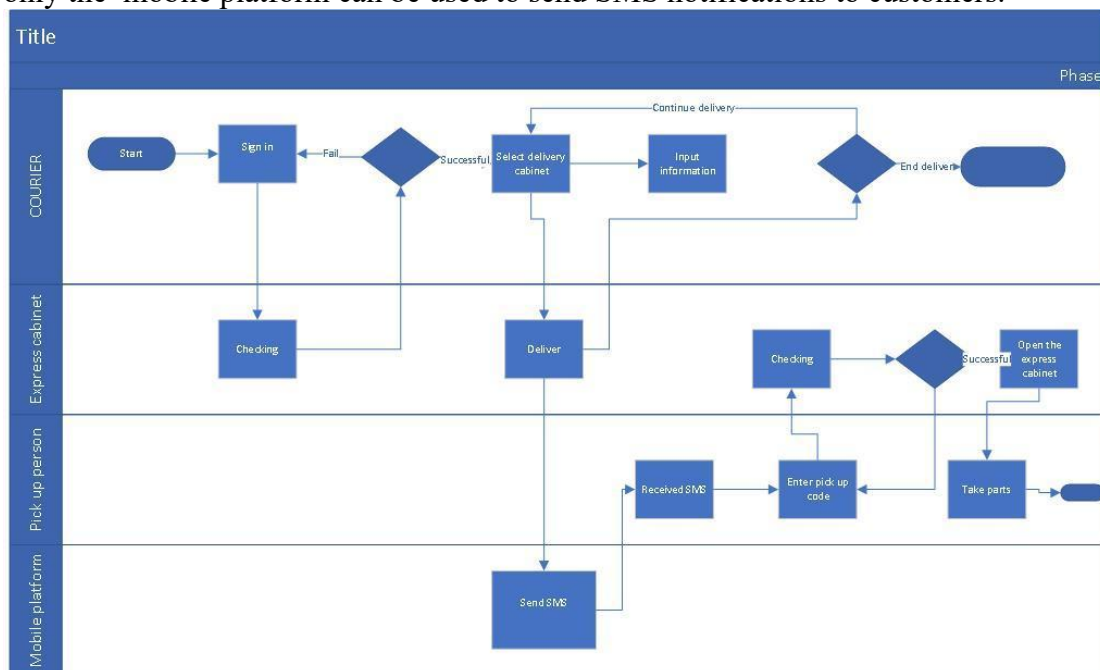
I、Company Profile:

JFK Express Delivery System is a unified online management system customized by JFK Technology for enterprises, industrial park management offices, community property management offices, etc. It provides a common delivery solution of cabinet plus point plus person to solve single delivery. The high labor cost of collection management.

Describe the issues (the problem, pain points that the company is facing):

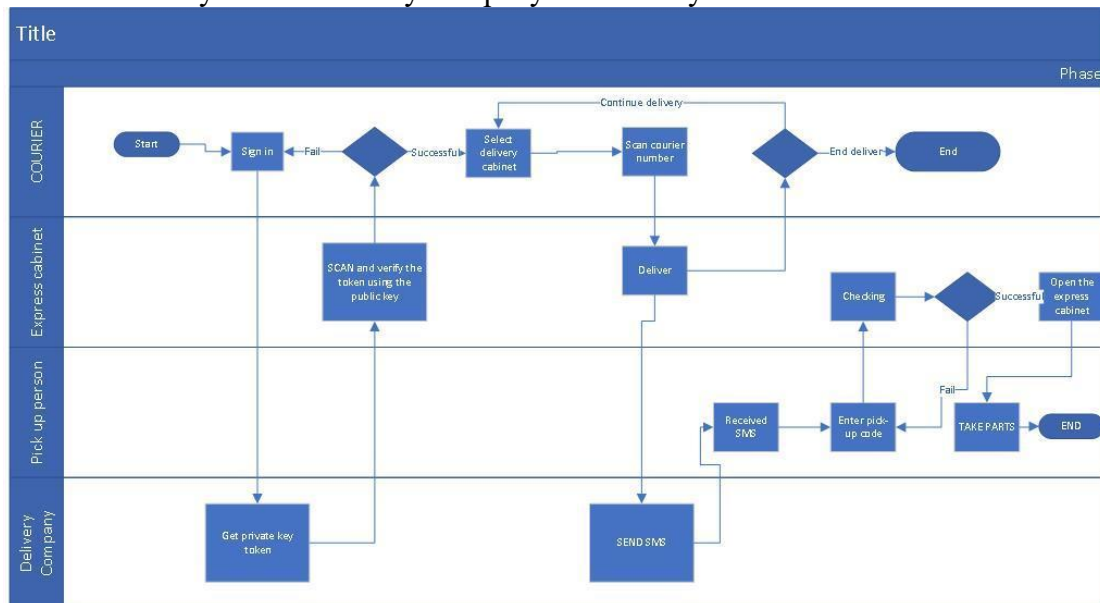
1、Current State Process

JFK Technology Company invented the delivery cabinet, and they built the delivery cabinet and remote control system by themselves. Registered delivery personnel use the delivery counter for free during the promotion period. Due to lack of resources, only the mobile platform can be used to send SMS notifications to customers.



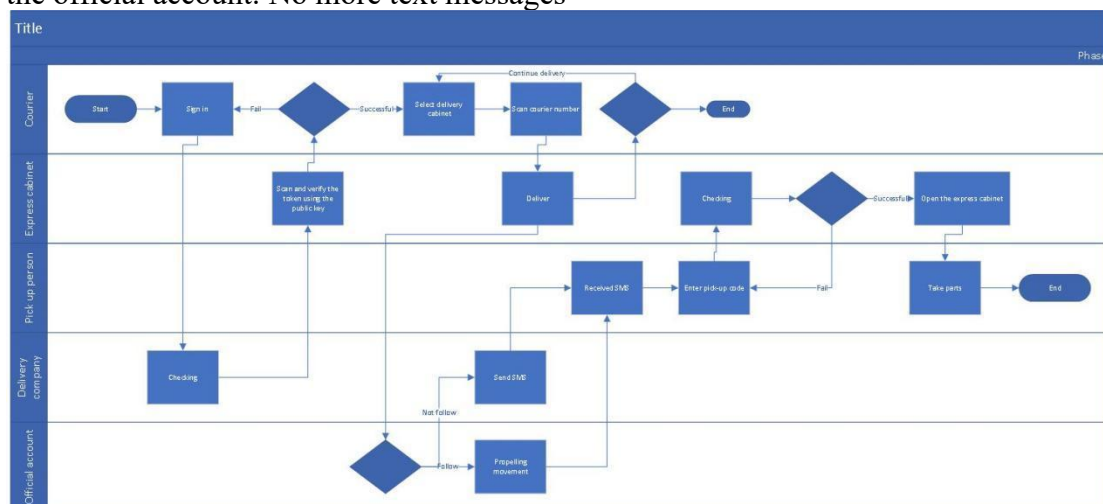
2、Pain Points and Enablers

With the promotion of the product, company JFK reached an agreement with major express delivery companies. Company JFK has added a QR code scanning device to the courier cabinet. Couriers of company delivery can not only log in on the courier cabinet (authentication service provided by company delivery), but also scan the courier number, and send text messages to company delivery automatically after delivery to the cabinet To customers. After the customer picks up the package, it will be automatically sent to delivery company for delivery.



3、Future State Process

Company JFK further optimized its services and developed a WeChat applet to scan QR codes to get express delivery. If the user has followed the company's official account, he will directly push the user's pickup code and other information through the official account. No more text messages



Future State Process Benefits:

Perfect fusion of multiple functions

- 1、 For consumers and users
 - Multi-channel, diversified express delivery
 - Multiple payment methods
- 2、 For express service station (express cabinet)
 - Unified and precise management

Online payment
Order printing
Accurate and clear reconciliation and settlement

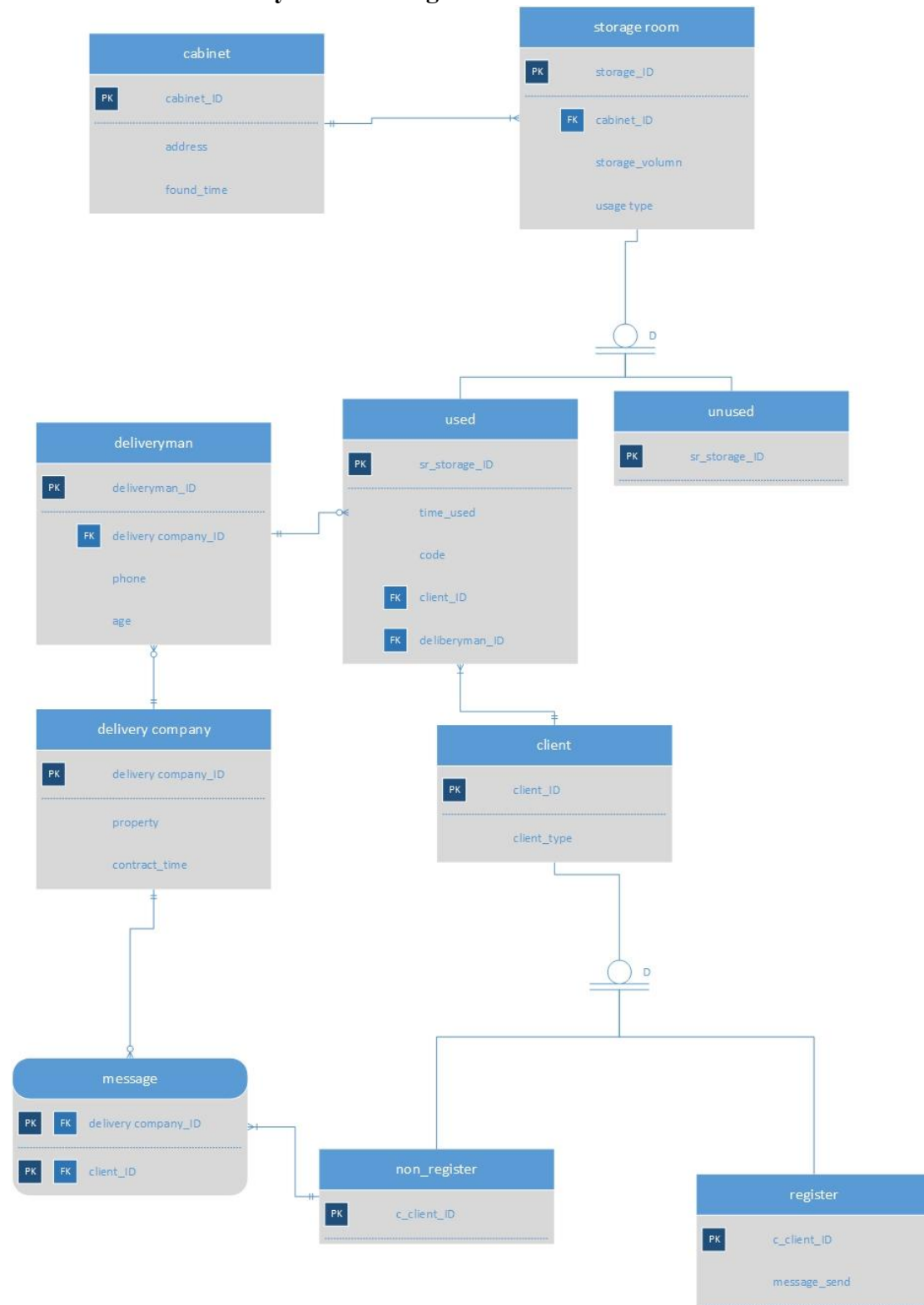
3、For courier system

Hardware support and stable operation

II、JFK detailed description of business rules and user requirements

Company JFK has many delivery storage cabinets, and they need to record number, address, founding time of every cabinet. There are many storage rooms in a delivery cabinet, which are provided to the deliveryman to store items. Each storage room has its own number, and the company needs to record the usage. When the item is shipped, company JFK needs to mark that the storage room has been used, the time the items were stored, the information of the deliveryman, and the information of the person who picked up the item. Company JFK has a cooperative relationship with many delivery companies. Each delivery company has its own deliveryman. When a customer places an order with the delivery company, the delivery company appoints a deliveryman to drop the customer's items into the storage room of the delivery cabinet. After delivery, company JFK generates a pickup code for the item and sends it to the customer through the official account. If the customer information is not found in JFK's official account, the delivery company needs to send it to the pickup person via SMS.

III、An enhanced entity relation diagram



IV、dictionary

Cabinet:

It includes the information about the delivery storage cabinet.

attribute	description	datatype
cabinet_ID	like cab001, record the unique id of every cabinet	varchar(5)
address	the detail location include city and street	varchar(20)
found_time	09/02/2020, time the cabinet founded	date

storage room:

It includes the information for every cabinet.

attribute	description	datatype
storage_ID	record the unique id of every storage room	varchar(5)
cabinet_ID	cabinet belonged	varchar(20)
storage_volumn	cubic centimeter	int(2)
usage_type	if the room is used	char(1)

used:

subtype of the entity storage room, if the usage_type is U

attribute	description	datatype
sr_storage_ID	record the unique id of every storage room	varchar(5)
time_used	time when item put into the room	date
code	the password to open the room	int(6)
client_ID	the number to identify a client	int(8)
deliveryman_ID	the number to identify a delivery man	int(8)

unused:

subtype of the entity storage room, if the usage_type is N

deliveryman:

the information about the worker in the delivery company.

attribute	description	datatype
deliveryman_ID	to identify a worker	int(8)
deliverycompany_ID	to identify a company	int(5)
phone	phone number of the worker	char(10)
age	age of the worker	int(2)

client:

the information about the customer of the delivery company.

attribute	description	datatype
client_ID	to identify a customer	int(8)
client_type	record if the customer register an account	char(1)

non_register:

information about the customer who has not registered

attribute	description	datatype
c_client_ID	to identify a customer	int(8)

register:

information about the customer who has registered

attribute	description	datatype
c_client_ID	to identify a customer	int(8)
message_send	if company successfully send code	char(1)

message:

associative entity between delivery company and non_register. The delivery needs to send a message to the customer who has not registered.

attribute	description	datatype
c_client_ID	to identify a customer	int(8)
message_send	to identify a company	int(5)