

EEI Project1- Web Design

Group 6

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Outline

- **Scenario presentation**
- **As-is model**
- **BPR**
- **To-be model**
- **Web design**
- **Conclusion**

Scenario

Welcome to Gin Pik Cake Store

HOMEPAGE LOGIN REGISTER CONTACT



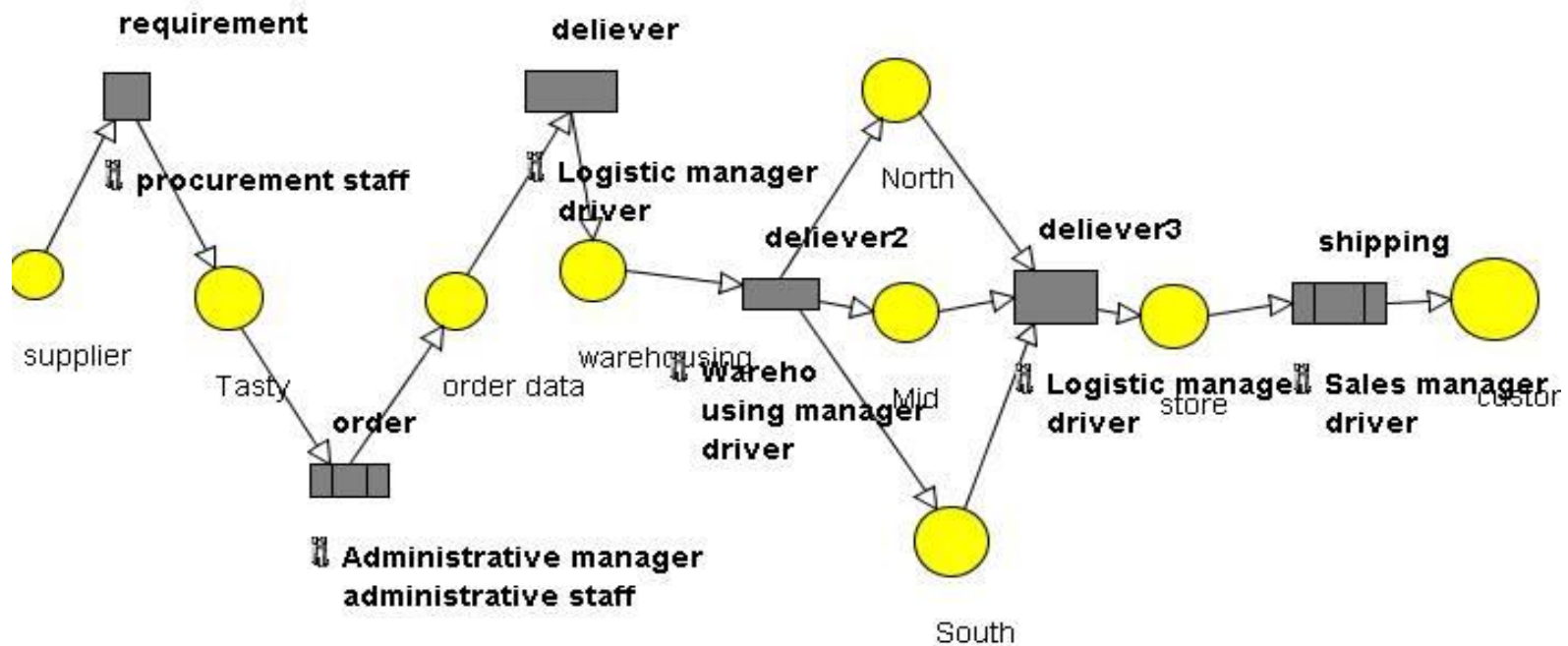
琳的香蕉長條蛋糕
Lyne's Banana Bread

1. 膨脹劑由1茶匙烘焙蘇打粉換成3.2克泡打粉
2. 烤模變成瘦高型 (28x9.5x7公分)
3. 多添加了50g耐烘焙巧克力豆

- Tasty is a company selling baking ingredients.
- Customers are not satisfied for the waiting time being too long, and they want to purchase products on the internet.

As-is model

Behavior model



As-is model

Two drill downs of behavior model

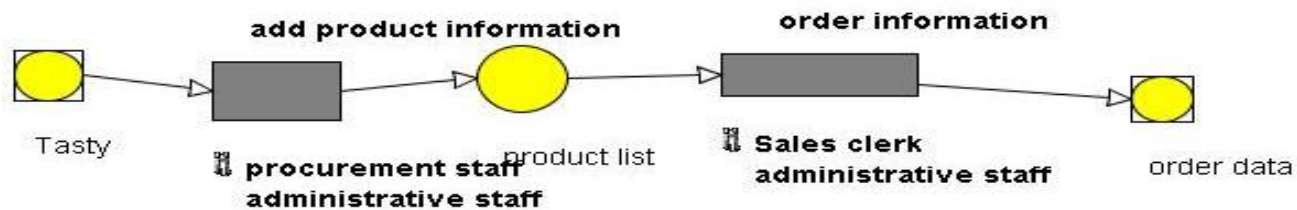


figure2.1

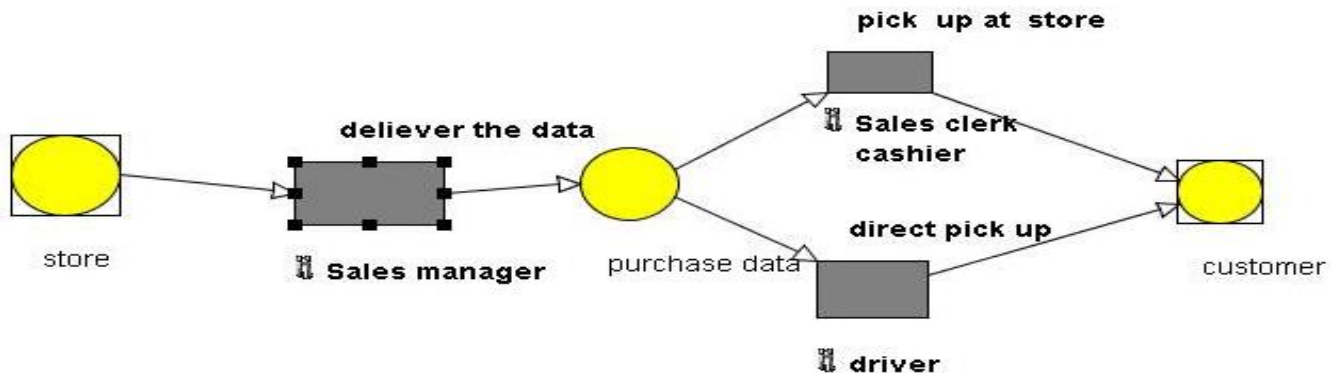
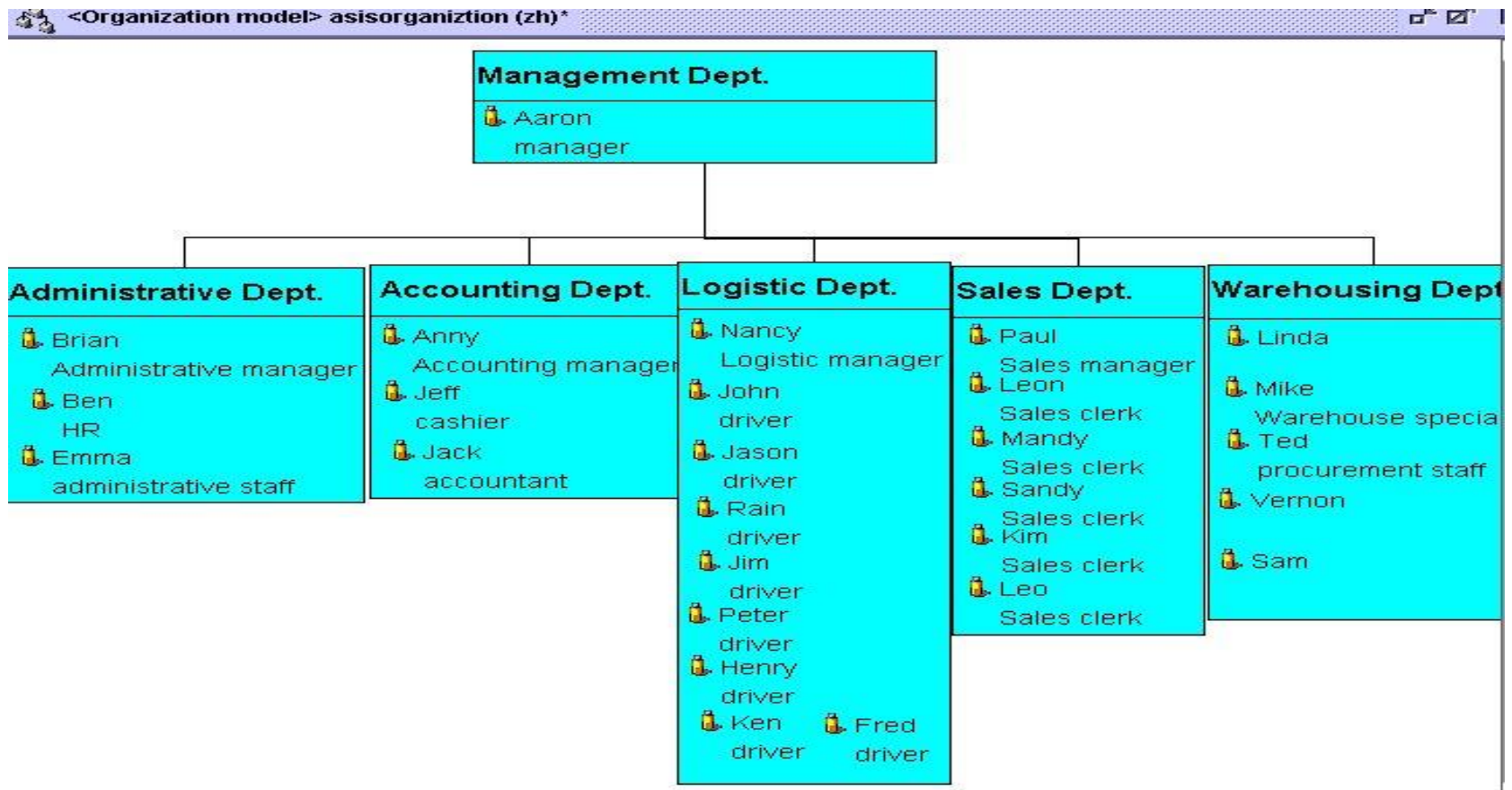


figure2.2

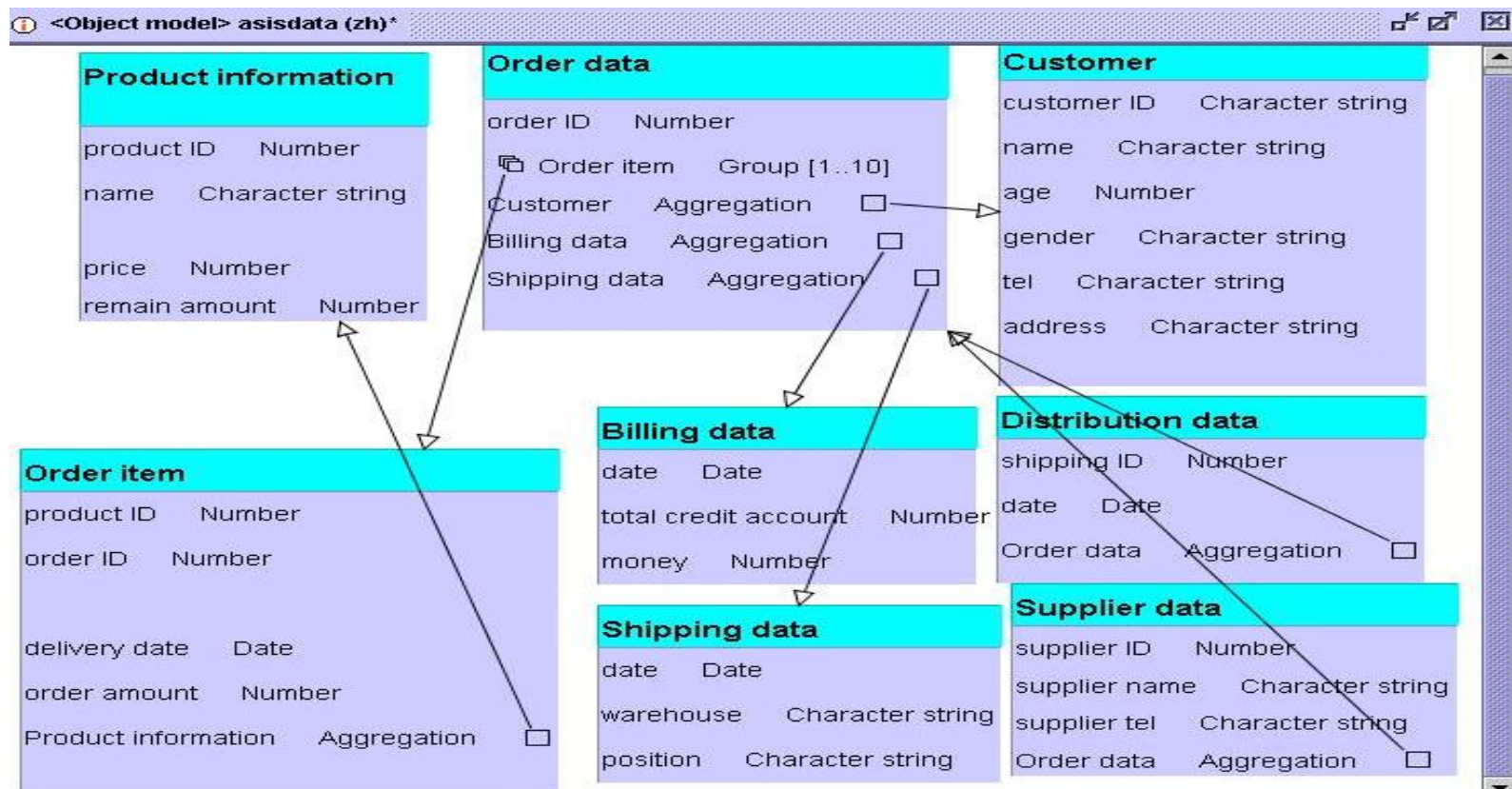
As-is model

Organization model



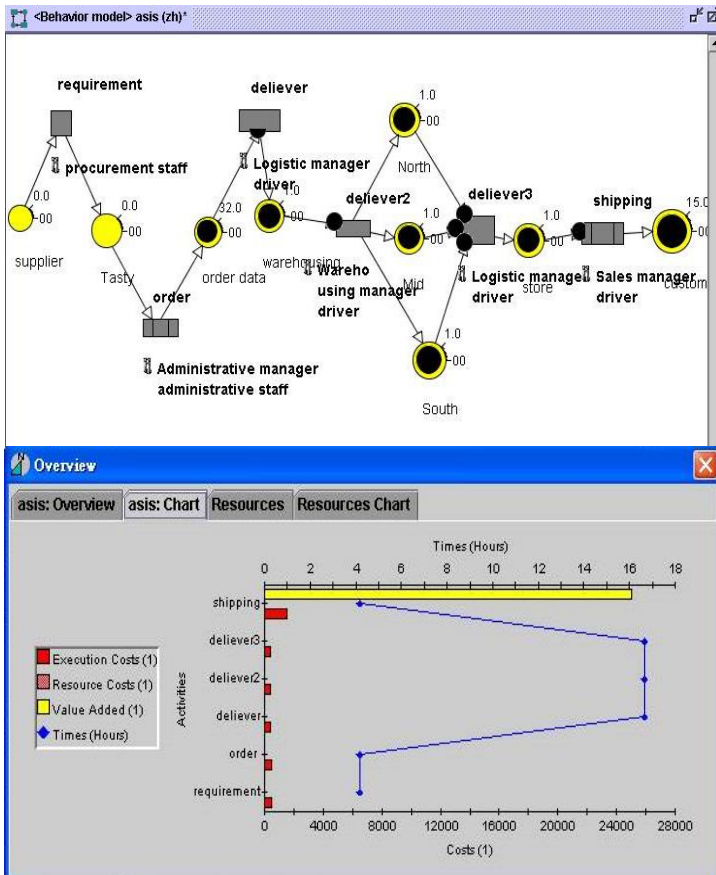
As-is model

Object model



As-is model

Simulation results



Overview

asis: Overview | asis: Chart | Resources | Resources Chart

Activities	Count	Execution Costs (1)	Resource ...	Value Added (1)	Times (Hours)
requirement	50	500	0	0	4.167
order	50	500	0	0	4.167
deliever	50	400	0	0	16.667
deliever2	50	400	0	0	16.667
deliever3	50	400	0	0	16.667
shipping	50	1,500	0	25,000	4.167
Sum	300	3,700	0	25,000	62.5

BPR

- **Value Stream Mapping**

- **Step1**: Selecting the product to map, VSM symbols, Defining the process boundaries, The process steps, Information flows, Process data, Calculating the time line
- **Step2**: Interpreting the data, Next step (ideal and future state)

- **Theory of Constraints**

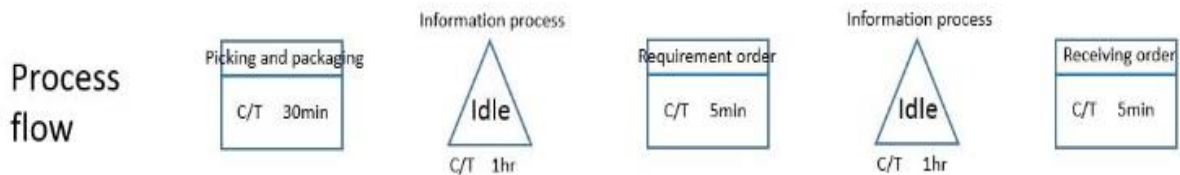
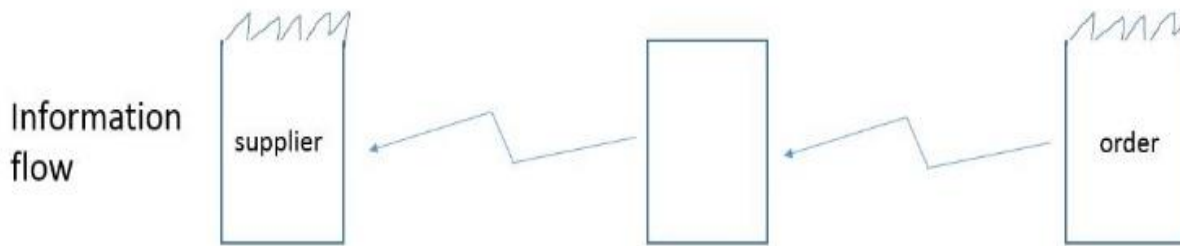
- **Step1**: Identifying the constraint
- **Step2**: Decide how to exploit the constraint
- **Step3**:Subordinate everything else to the decision that in step 2
- **Step4**:Elevate the constraint
- **Srep5**:Go back to step 1, but avoid inertia

BPR

VSM

TOC

Step1: Draw the map



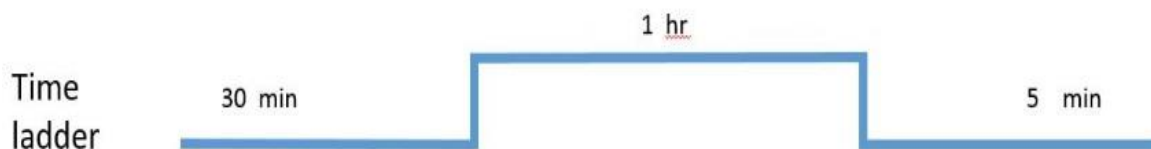
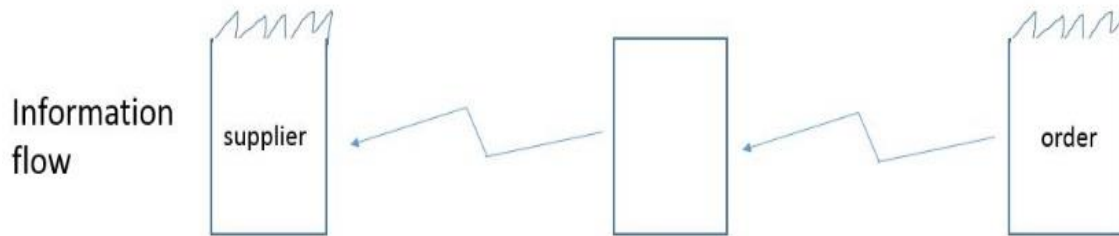
$$PCE = 33.33\%$$

BPR

VSM

TOC

Step2: Interpreting the data



$$PCE = 58.33\%$$

BPR

VSM

TOC

Step1: Identifying the constraint—

Distribution

Step2: Decide how to exploit the constraint—

TPL

Step3: Subordinate everything else to the decision that in step 2—

Let the supplier contact them directly to shorten the process time

Step4: Elevate the constraint—

To develop an integrated system to support the information flow

Step5:

Go back to step 1, but avoid inertia

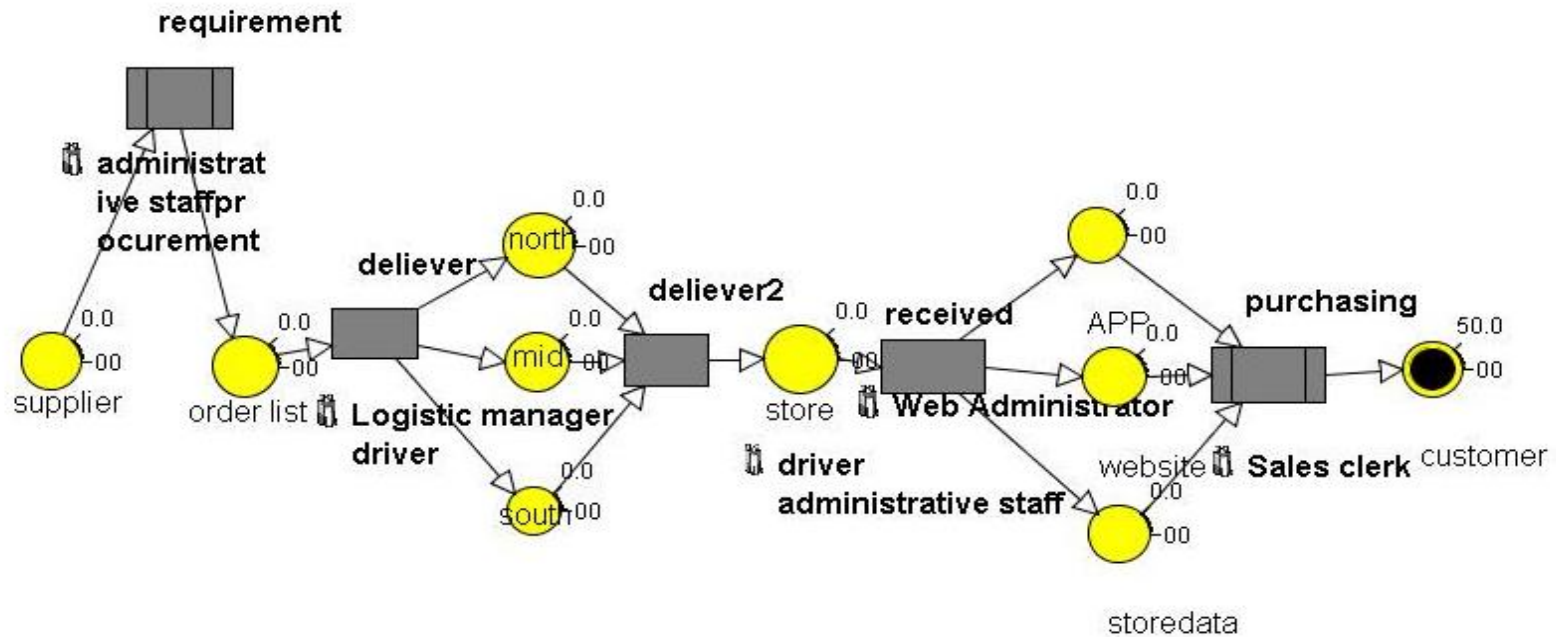
BPR

Conclusion

- (1) The order data no longer need to go through Tasty, but directly pass to the supplier (like Dell Inc.), which reduce a lot of idle time.
- (2) Working with a TPL company to better improve the constraint of being lack of trucks and drivers.
- (3) In addition, we want to implement some method to make customers' acquisition to product information more easily. In that case, we develop a web and APP for customers (the concept of Omni-channel).

To-be model

Behavior model



To-be model

Two drill downs of behavior model

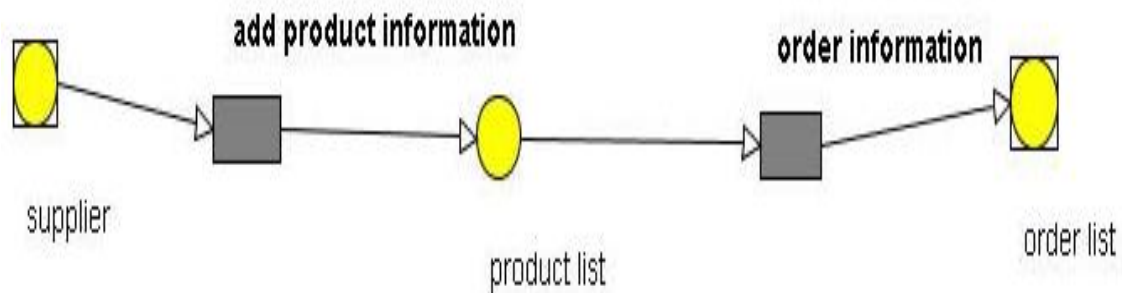


figure2.1

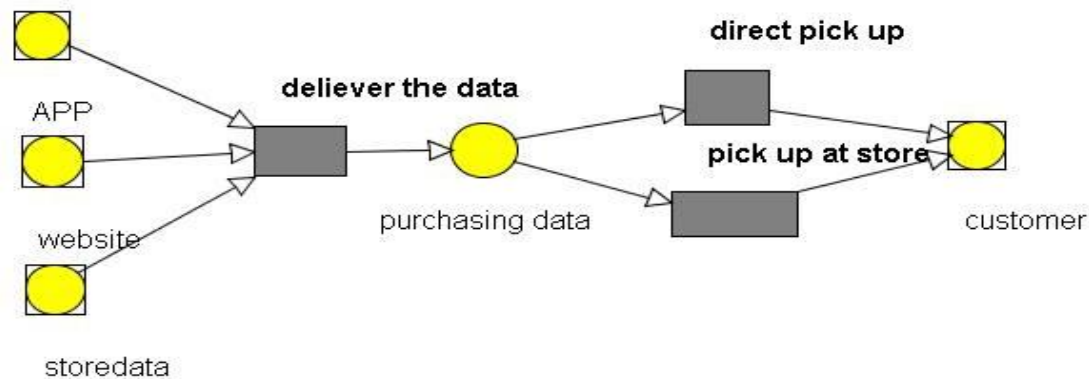
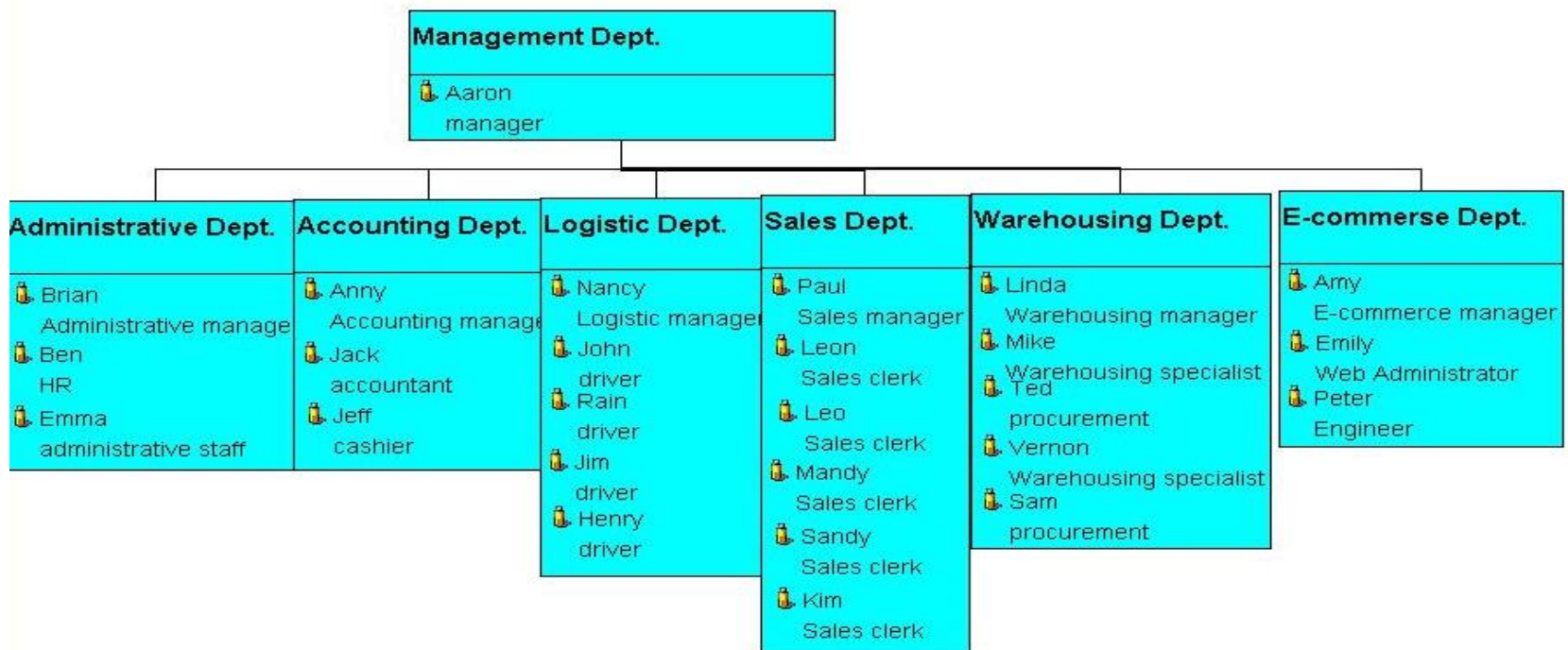


figure2.2

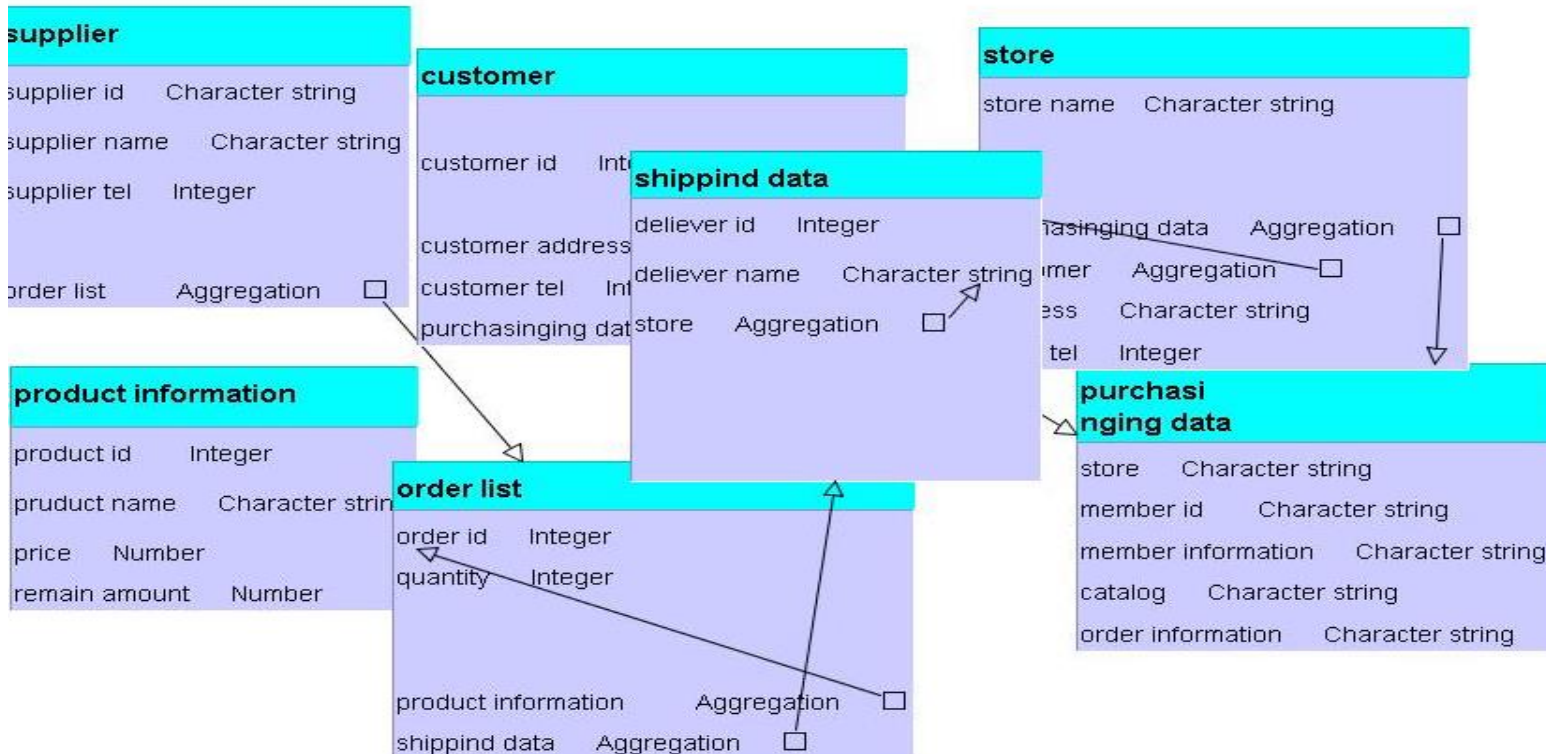
To-be model

Organization model



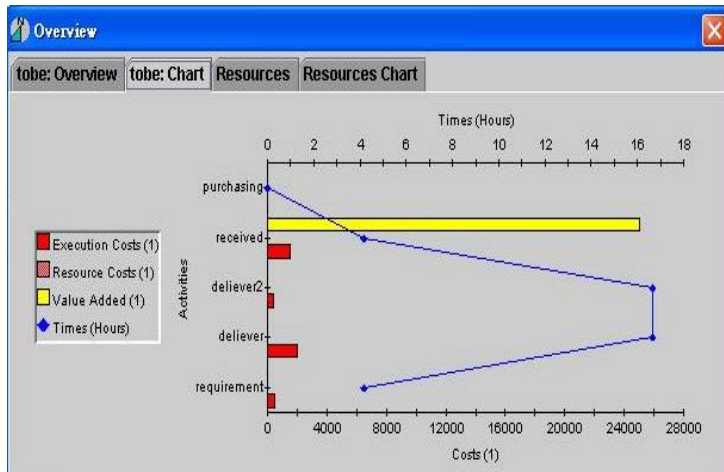
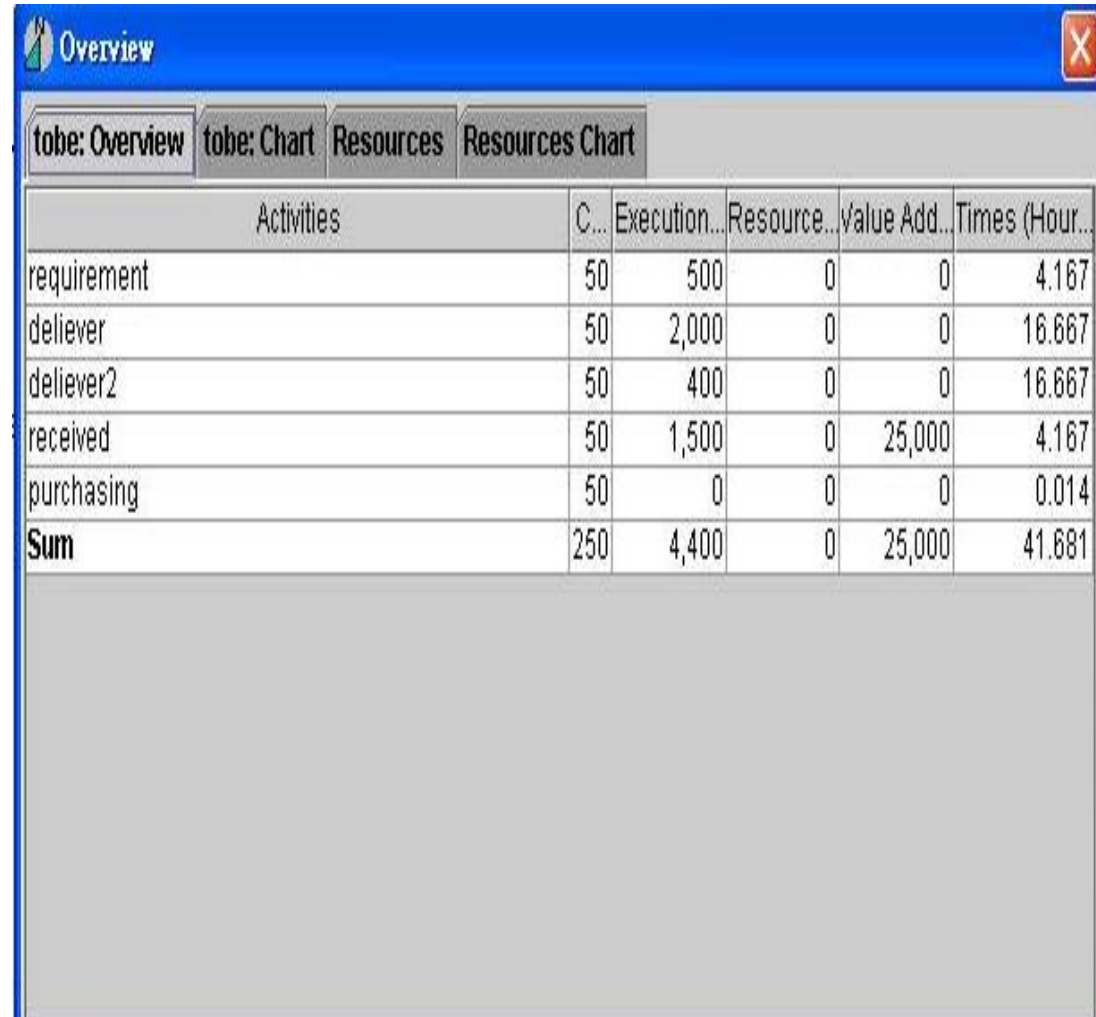
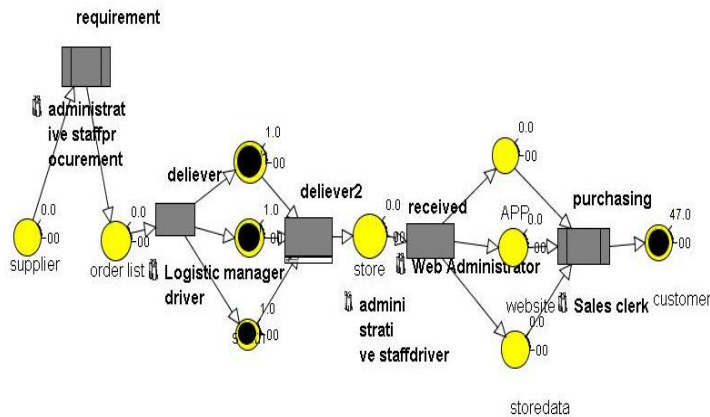
To-be model

Object model



To-be model

Simulation results



Web design

Customer login

Welcome to Gin Pik Cake Store

User: Password:

Manager login

Manager Login In

User: Password:

Register

Welcome to Gin Pik Cake Store

[HOME PAGE](#)
[CUSTOMER LOGIN](#)
[MANAGER LOGIN](#)
[REGISTER](#)
[CONTACT](#)

Name:
 ID:
 Password:
 Email:



Welcome to Gin Pik Cake Store

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Main page

Web design

Welcome to Gin Pik Cake Store

[HOME PAGE](#)
[CUSTOMER LOGIN](#)
[MANAGER LOGIN](#)
[REGISTER](#)
[CONTACT](#)



Item name: Butter
Actual price: NT300
Fixed price: NT250

[Add to Cart](#)




Item name: chotolate
Actual price: NT200
Fixed price: NT100

[Add to Cart](#)



Item name: Flour
Actual price: NT100

[Add to Cart](#)



Item name: Sugar
Actual price: NT50

[Add to Cart](#)



Item name: Vanilla
Actual price: NT350
Fixed price: NT320

[Add to Cart](#)



Item name: Baking soda
Actual price: NT35

[Add to Cart](#)

[Check Out](#)

Products

Production	Price	Amount	
Flour	100	1 ▼	Delete Production
Sugar	50	1 ▼	Delete Production

[Customer Information]

Customer Name :

Sex :

Phone Number :

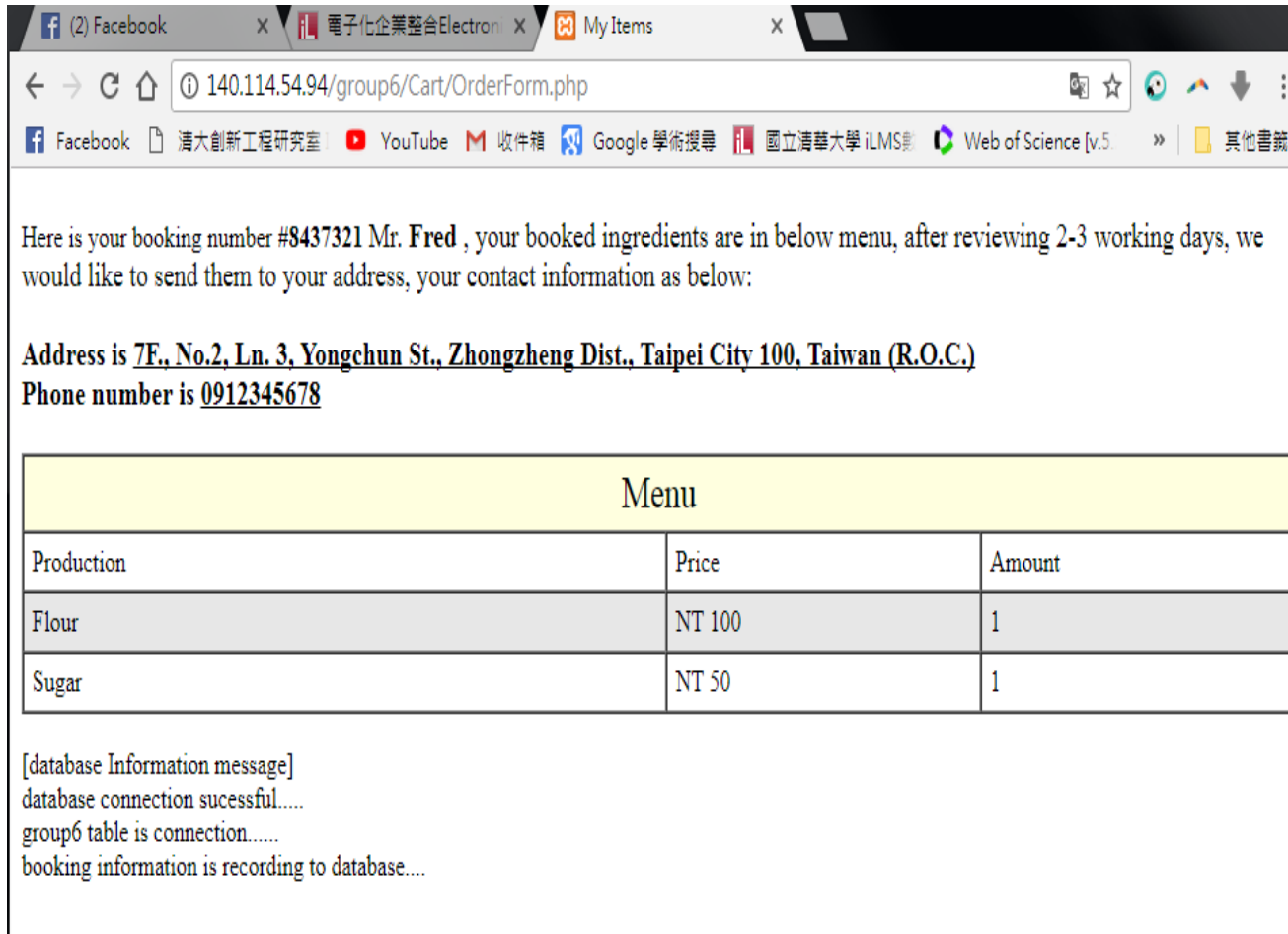
Resident Address :

total sum : NT 150

[Menu](#)

Shopping cart and
confirm the purchase

Web design



Here is your booking number #8437321 Mr. Fred , your booked ingredients are in below menu, after reviewing 2-3 working days, we would like to send them to your address, your contact information as below:

Address is 7F., No.2, Ln. 3, Yongchun St., Zhongzheng Dist., Taipei City 100, Taiwan (R.O.C.)
Phone number is 0912345678

Menu		
Production	Price	Amount
Flour	NT 100	1
Sugar	NT 50	1

[database Information message]
database connection sucessful.....
group6 table is connection.....
booking information is recording to database....

Order
Successfully!!

Conclusion

Overview

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- As-is model

Overview

tobe: Overview tobe: Chart Resources Resources Chart

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requirement	50 500	0	0	4.167
deliever	50 2,000	0	0	16.667
deliever2	50 400	0	0	16.667
received	50 1,500	0	25,000	4.167
purchasing	50 0	0	0	0.014
Sum	250 4,400	0	25,000	41.681

- To-be model 22

Conclusion

- The process become **short but efficient**
- The deliver time decreased about **20hrs.**
- The cost of to-be model do **increased.**
- We apply **Omni-channel** techniques for improvement.

Thanks for listening