OSP 3rd Cycle

Software Modeling and Analysis

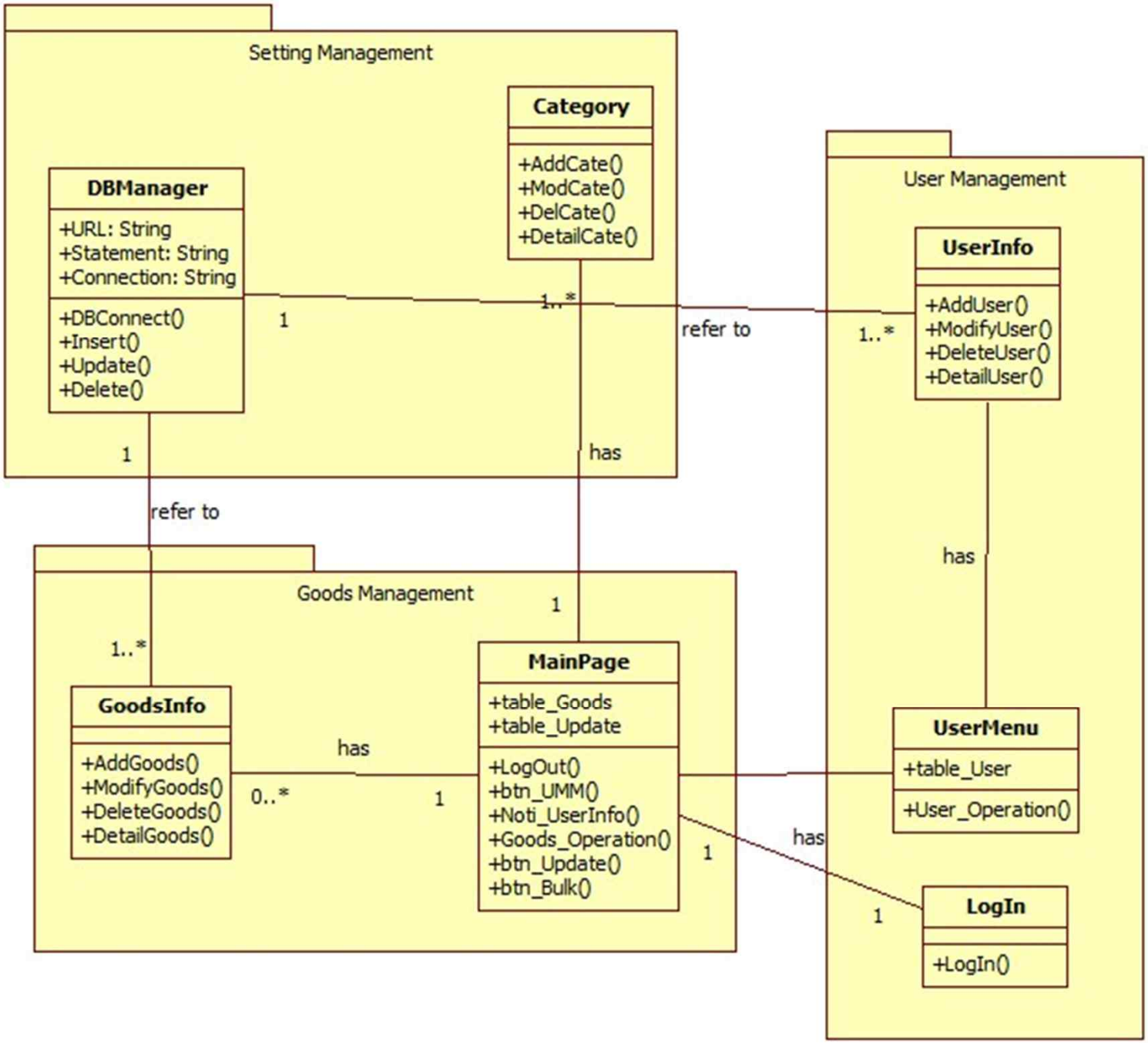
TEAM 7

Index

1. Final Class Diagram
2. About OSP 1000
3. About OSP 2030
4. About OSP 2040
5. About OSP 2050
6. About Software Modeling

   (1st, 2nd, 3rd Cycle)
7. Project Demonstration

Final Class Diagram


Setting Management
Category
+AddCate()
+ModCate()
+DelCate()
+DetailCate()
DBManager
+URL: String
+Statement: String
+Connection: String
+DBConnect()
+Insert()
+Update()
+Delete()
1
1..*
refer to
User Management
UserInfo
+AddUser()
+ModifyUser()
+DeleteUser()
+DetailUser()
1..*
1
has
refer to
has
Goods Management
1
1..*
MainPage
+table_Goods
+table_Update
+LogOut()
+btn_UMM()
+Noti_UserInfo()
+Goods_Operation()
+btn_Update()
+btn_Bulk()
GoodsInfo
+AddGoods()
+ModifyGoods()
+DeleteGoods()
+DetailGoods()
has
0..*
1
UserMenu
+table_User
+User_Operation()
1
has
LogIn
+LogIn()
1

About OSP 1000

About OSP 1000

- Draft Plan
- Functional Requirement
- Non-Functional Requirement
- Risk Management

Draft Plan

- We planned a program that be used easily at **convenience store** or **major supermarket**.

Functional Requirement

Functional Requirement	Implementation
User Account Management (Create/Modify/Delete)	Done
Administrator Authorization	Done
Goods Management Function	Done
Inquiry Update Status	Done
Classified Goods depends on Goods' Information	Delete on OSP 2000
Automatics Goods Update	Delete on OSP 2000
Inquiry Goods Status	Done partially
Notify Recommended Amount of Goods	Delete on OSP 2000
Notification Manual Goods Update	Done
Support Preferences	Done
Periodic Backup	Delete on OSP 2000

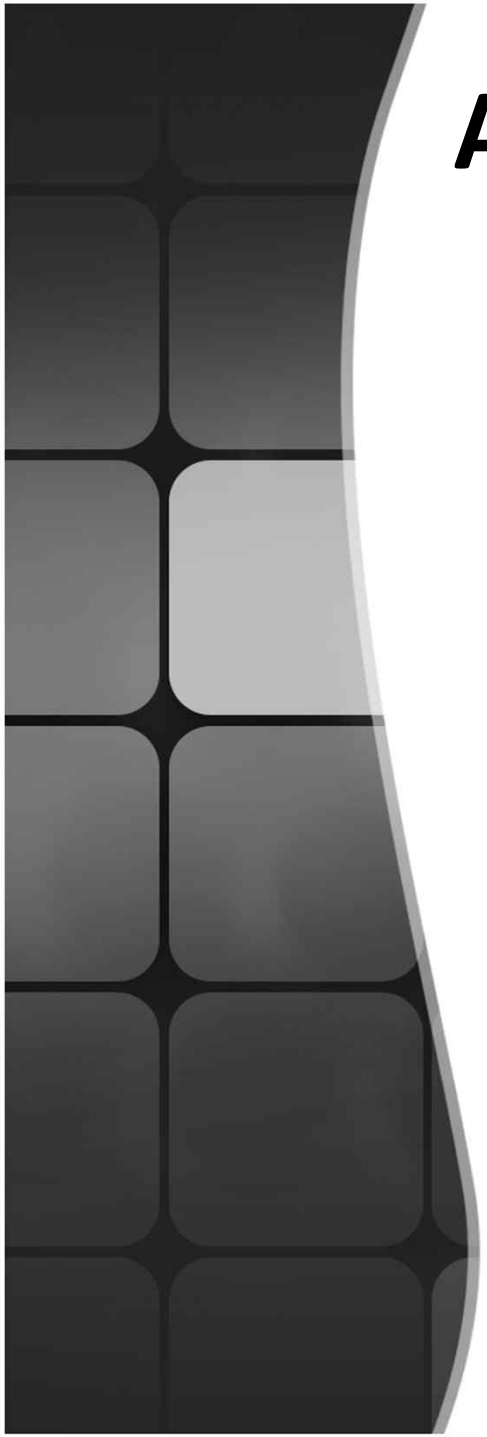
Non-Functional Requirement

- Accuracy
- Scalability
- Security
- Real-Time
- Stability

Risk Management

Risk	Impact	Handle
Team Communication	8	3
First Adoption of OSP	6	5
First Adoption of StarUML	1	10
Lack of OO Experience	3	4
Lack of Java	7	6
Lack of Tool Skill	7	6
Problem of Requirement Change	9	3
Lack of Glossary	2	7
Changes during Code Generation	10	1

About OSP 2030



About OSP 2030

- Essential Use Case
- Use Case Diagram
- Domain Model

Essential Use Case

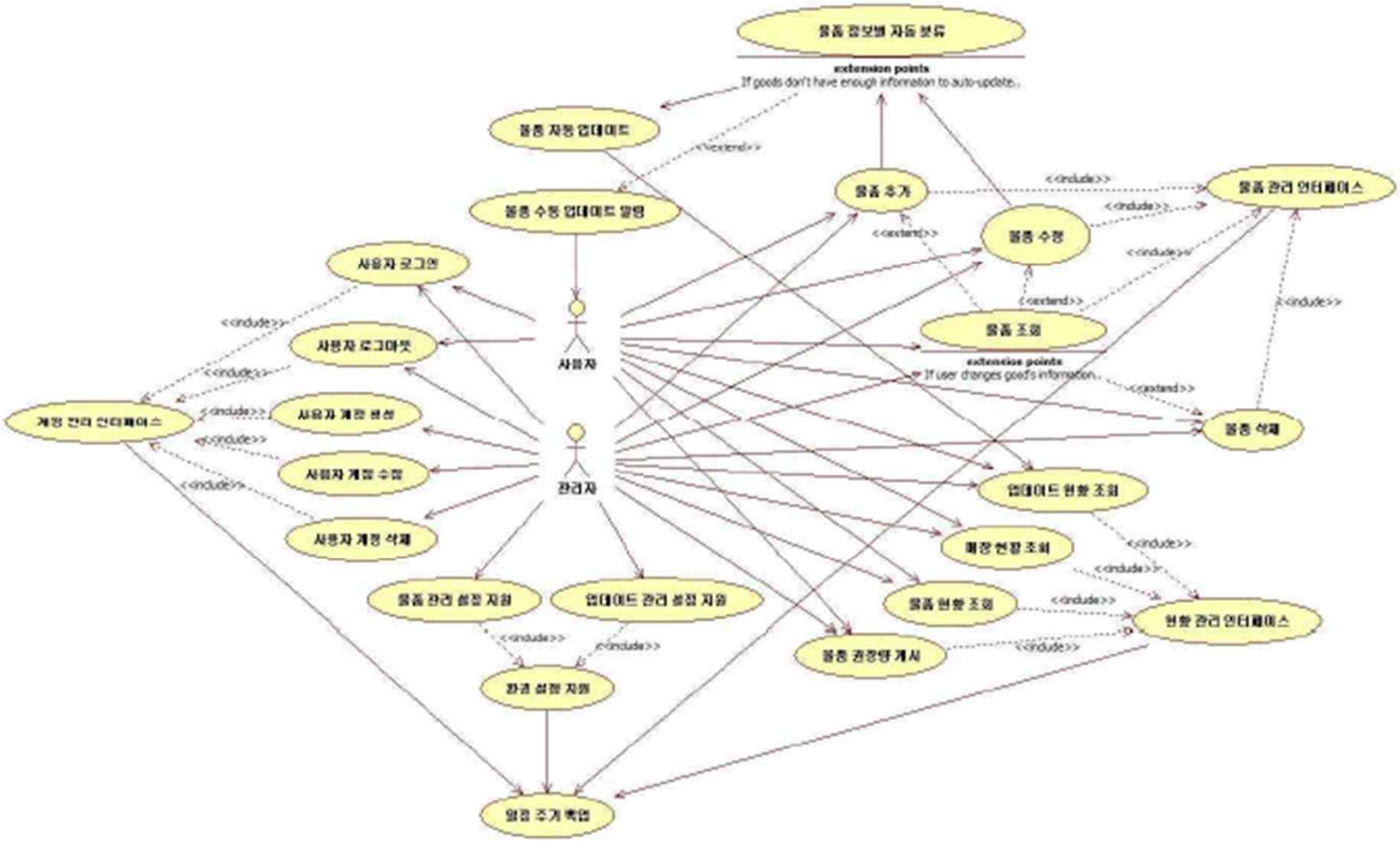
- OSP 1000 ‘Functional Requirement’

  -> OSP 2030 ‘Essential Use Case’

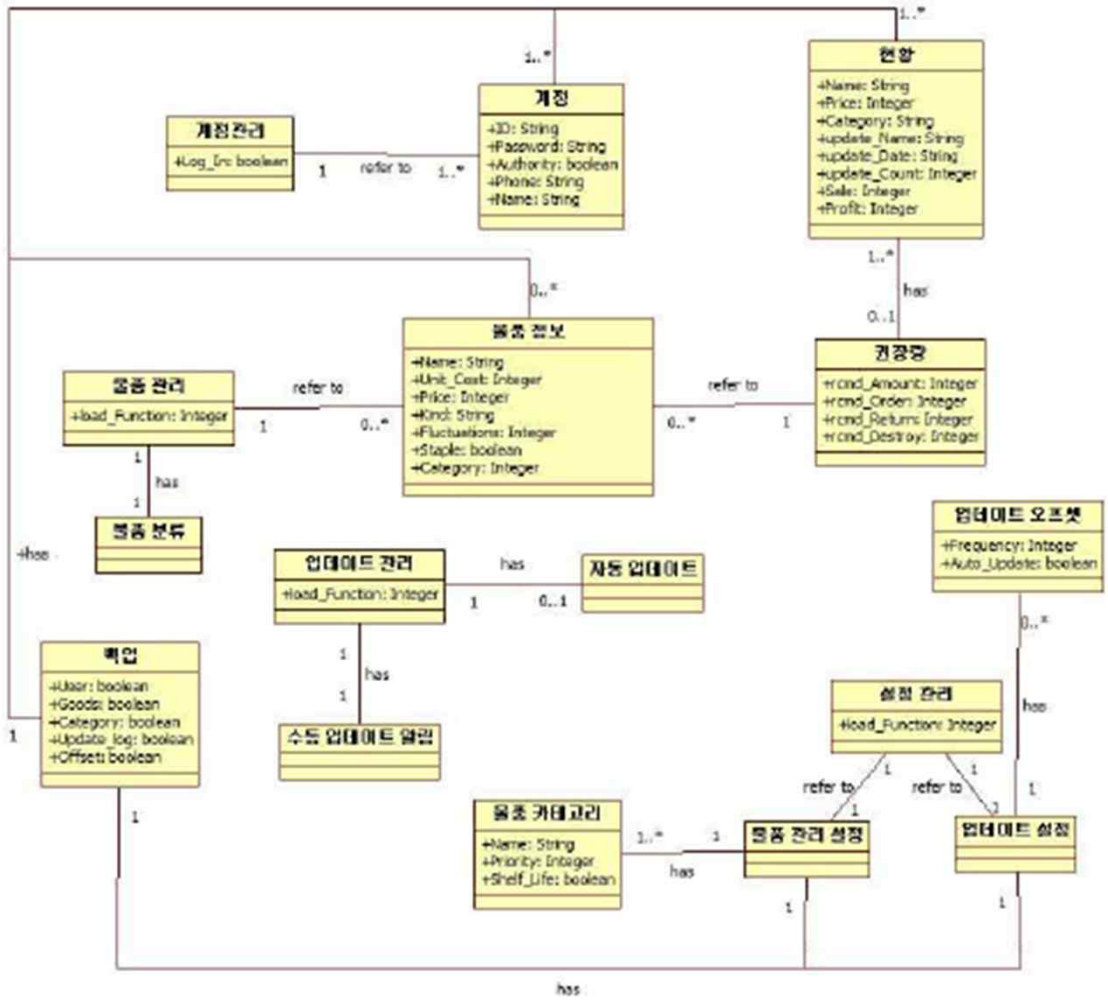
- Think About Use Case Operation Mechanism

- OSP 2030’s Critical Section

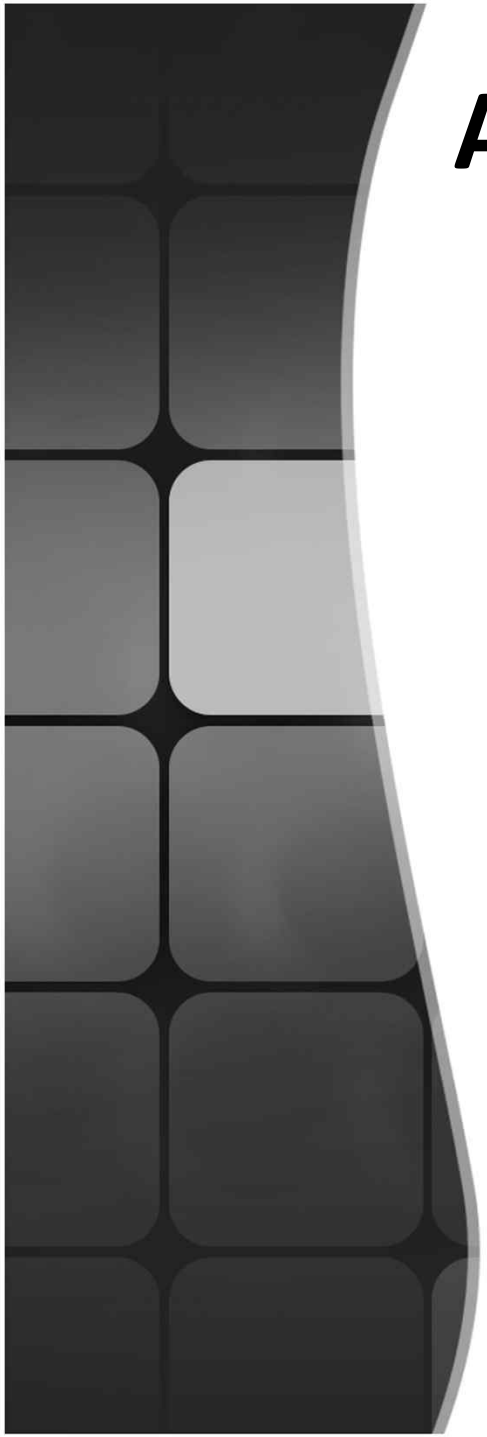
Use Case Diagram



Domain Model



About OSP 2040



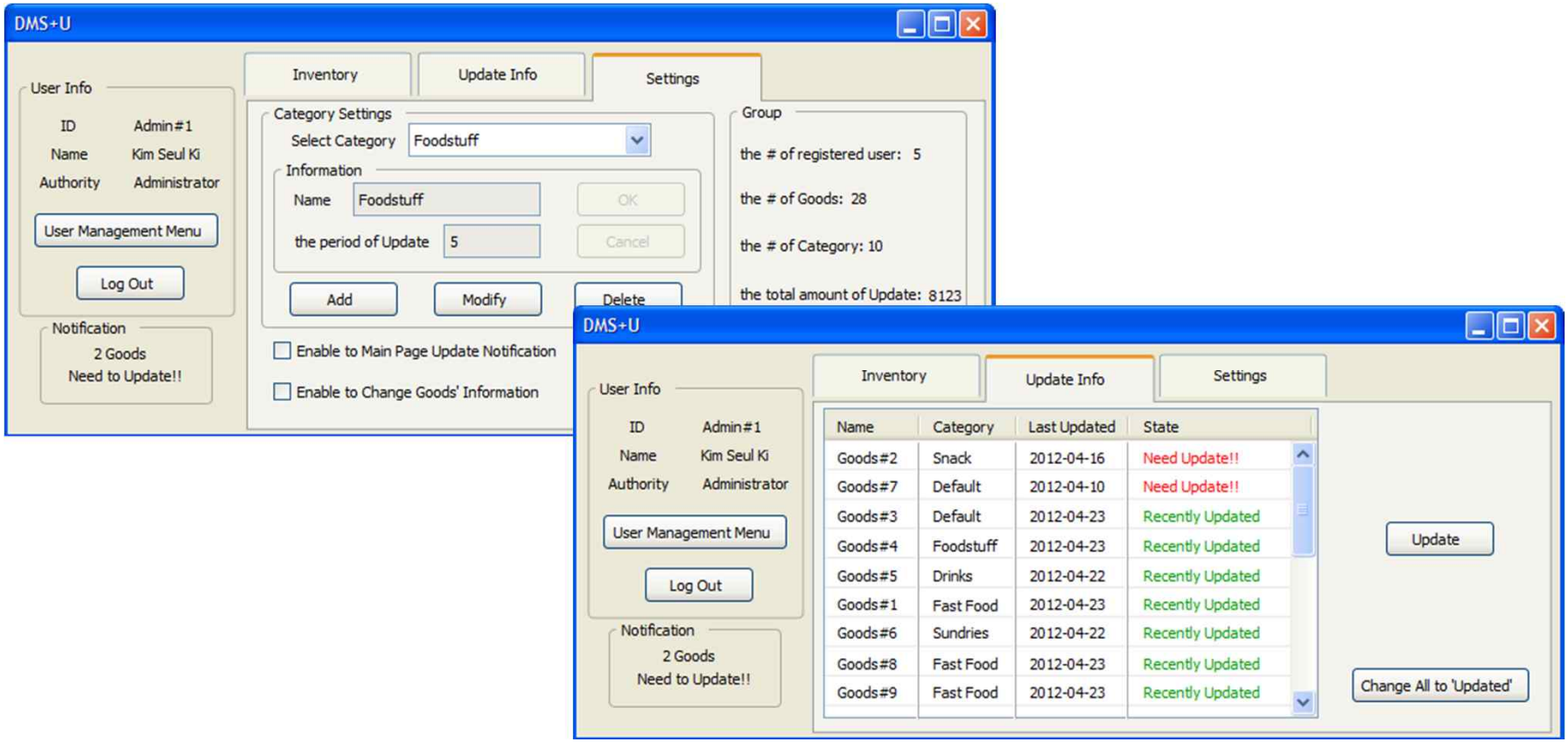
About OSP 2040

- Real Use Case
- Define UI
- Interaction Diagram
- Class Diagram

Real Use Case

- Design Use Case for ‘Real’ Project
- Make Suitable Use Case for Domain Model
- Should Consider UI

Define UI


DMS+U
User Info
ID
Admin#1
Name
Kim Seul Ki
Authority
Administrator
User Management Menu
Log Out
Notification
2 Goods
Need to Update!!
Inventory
Update Info
Settings
Category Settings
Select Category
Foodstuff
Information
Name
Foodstuff
OK
the period of Update
5
Cancel
Add
Modify
Delete
Enable to Main Page Update Notification
Enable to Change Goods' Information
Group
the # of registered user: 5
the # of Goods: 28
the # of Category: 10
the total amount of Update: 8123
DMS+U
User Info
ID
Admin#1
Name
Kim Seul Ki
Authority
Administrator
User Management Menu
Log Out
Notification
2 Goods
Need to Update!!
Inventory
Update Info
Settings
Name
Category
Last Updated
State
Goods#2
Snack
2012-04-16
Need Update!!
Goods#7
Default
2012-04-10
Need Update!!
Goods#3
Default
2012-04-23
Recently Updated
Goods#4
Foodstuff
2012-04-23
Recently Updated
Goods#5
Drinks
2012-04-22
Recently Updated
Goods#1
Fast Food
2012-04-23
Recently Updated
Goods#6
Sundries
2012-04-22
Recently Updated
Goods#8
Fast Food
2012-04-23
Recently Updated
Goods#9
Fast Food
2012-04-23
Recently Updated
Update
Change All to 'Updated'

Interaction Diagram

- Real Use Case Operation Course
- Describe Interaction between Each Class
- Closely related to Class Diagram

Class Diagram

- We conclude that

  this part is most ‘Important’ part in OSP 2040.

- In Implement Phase,

  Betide Gap between Class Diagram and Generated Code.

- This part is Our ‘Major Stumbling’ Obstacle.

About OSP 2050

About OSP 2050

- Code Generation
- Modifying Class Diagram
  and Interaction Diagram

Code Generation

- It was most hardest part to Our Team.
- Many Risk erupted in this part.
  - Java versus JSP due to lack of communication
  - Unsuitable Code

    for Class Diagram and Interaction Diagram
- We failed to complete the project

  until 2nd Cycle

Modifying Class Diagram And Interaction Diagram

- Problem and Risk at the Code Generation
- Because Our Class Diagram and Interaction Diagram had error, Our generated code is different with designed class diagram.
- Eventually, We criticized about that.

About Software Modeling

Project Demonstration

THANK YOU