FlyingMongeese_Deliverable_2_URN

xujia wu

1 Develop GRL models in jUCMNav for each of the actors

For developers:

Softgoal: pass the class with A.

Softgoal: protect privacy
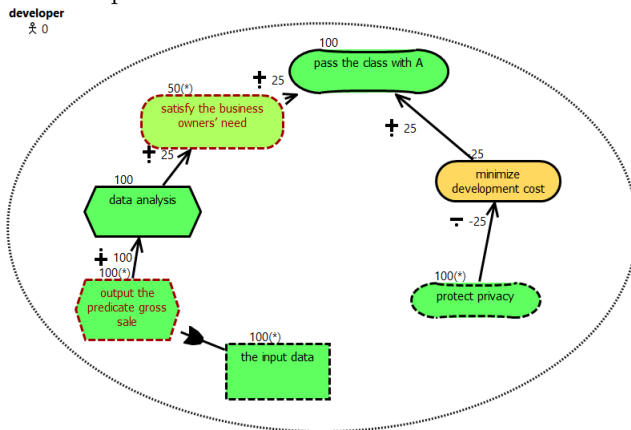
Goal: minimize development cost.

Goal: satisfy the business owners' need

Goal: protect privacy

Task: data analysis

Task: output the predicate gross sale
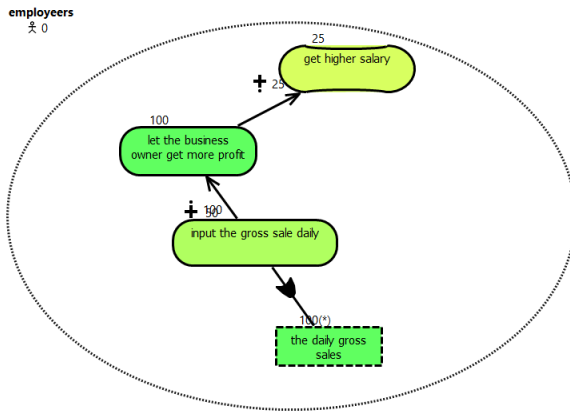
Resource: the input data

For employees:

Softgoal: get higher salary

Goal: let the business owner get more profit

Task: input the daily gross sales

Resource: the input gross sales
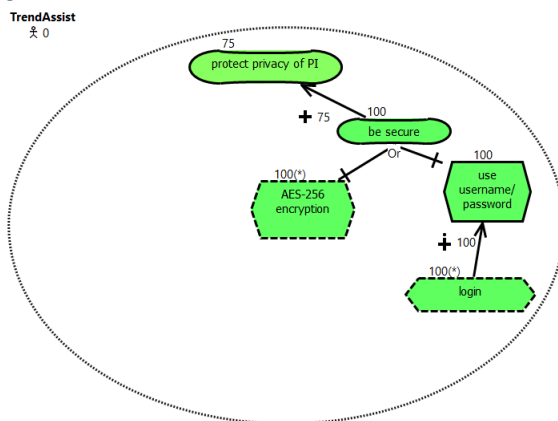
For TrendAssist –privacy:

Softgoal: protect privacy of PI.

Softgoal: be secure

Task: AES-256 Encryption

Task: use Username/ password

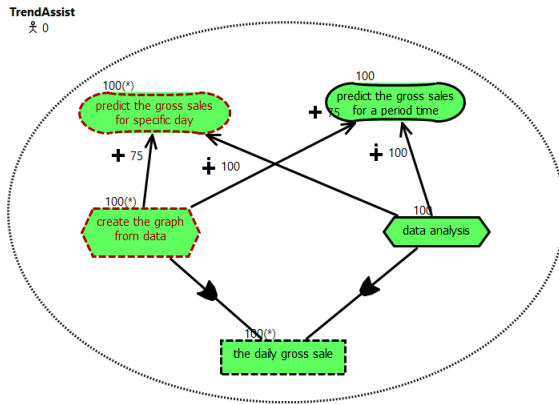Task: log in

For TrendAssist– Functionalities

Softgoal: predict the gross sales for specific day

Softgoal: predicate the gross sales for period.

Task: create graph from data

Task: data analysis

Resource: the daily gross sale

For business owner:

Softgoal: increase profit

Goal: lead to more customer coming
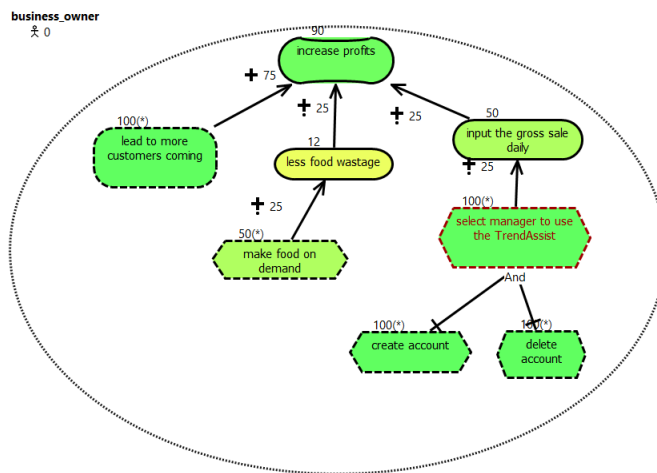
Goal: predicate the gross sales today

Goal: less food wastage
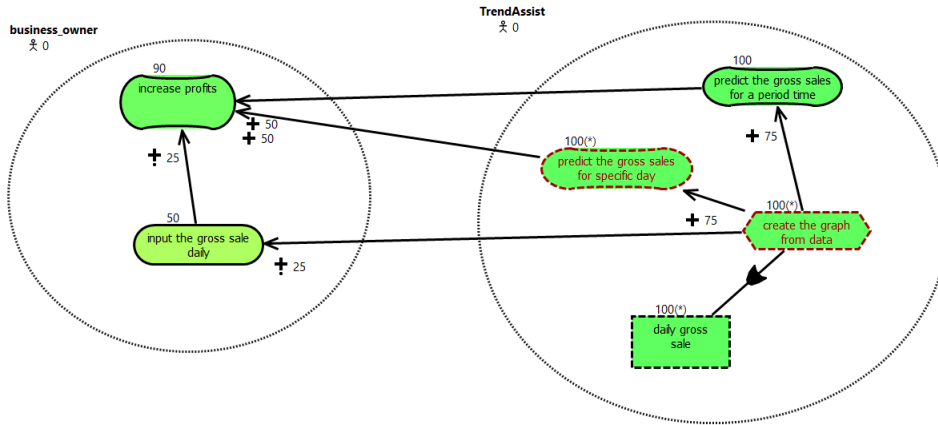
Task: make food on demand

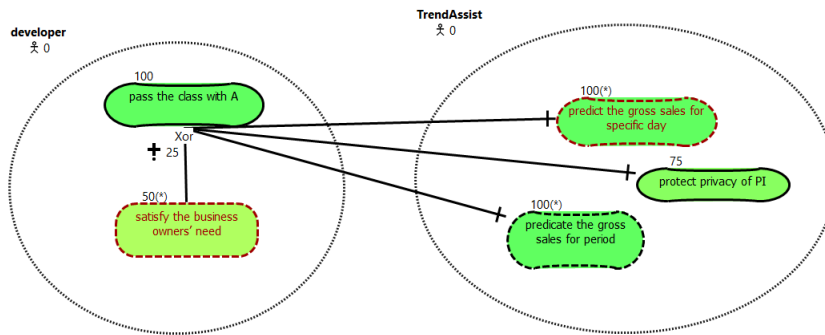Task: select employees to use the TrendAssist.
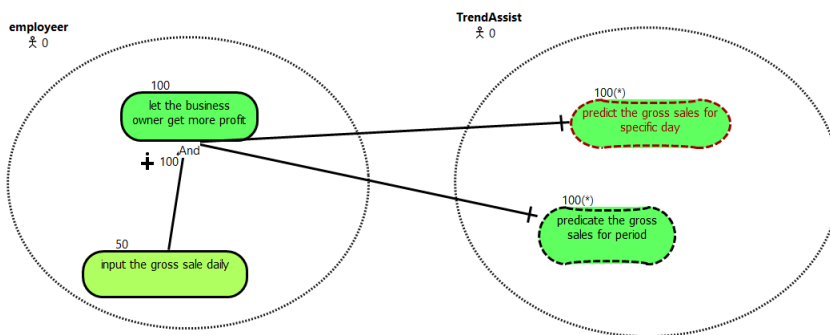
Task: create account

Task: delete account

business owner-TrendAssist

business_owner
🧍 0

TrendAssist
🧍 0

90
increase profits

100
predict the gross sales
for a period time

+ 50
+ 50

100(*)
predict the gross sales
for specific day

+ 75

+ 25

100(*)
create the graph
from data

+ 75

50
input the gross sale
daily

+ 25

100(*)
daily gross
sale

developer – TrendAssist

developer
🧍 0

TrendAssist
🧍 0

100
pass the class with A

100(*)
predict the gross sales for
specific day

Xor

+ 25

75
protect privacy of PI

50(*)
satisfy the business
owners' need

100(*)
predicate the gross
sales for period

employeers –TrendAssist

employeer
🧍 0

TrendAssist
🧍 0

100
let the business
owner get more profit

100(*)
predict the gross sales for
specific day

And

+ 100

100(*)
predicate the gross
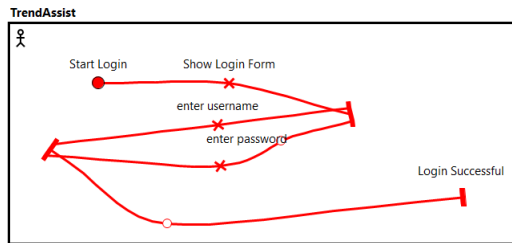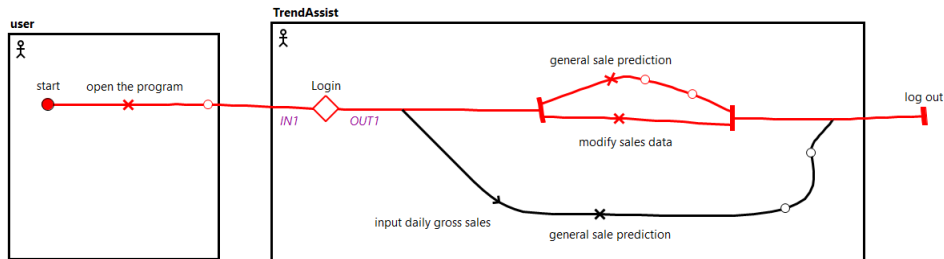sales for period

50
input the gross sale daily

4

2 Develop Use Case Maps models in jUCMNav for each of the actors
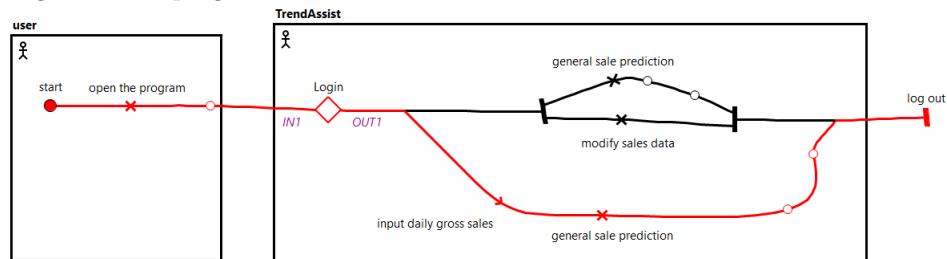
first case:
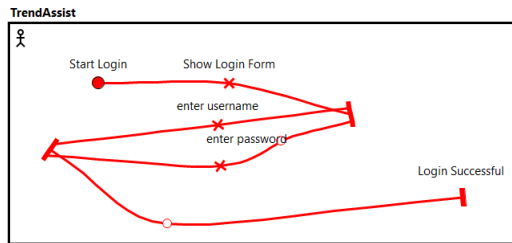
business owner ==true

after business owner logging, he can do both general sale predication and modify sales data
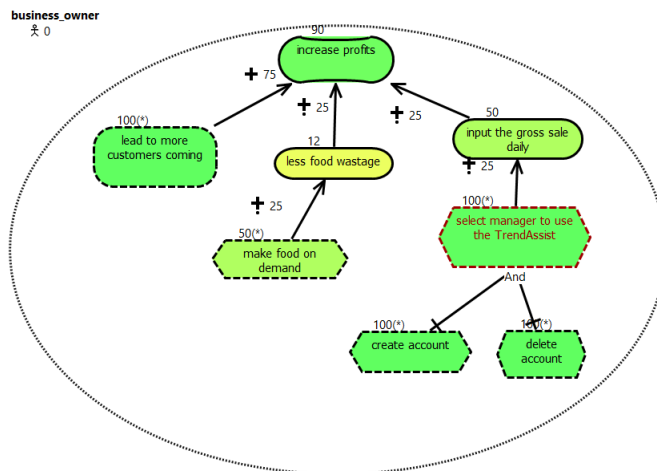

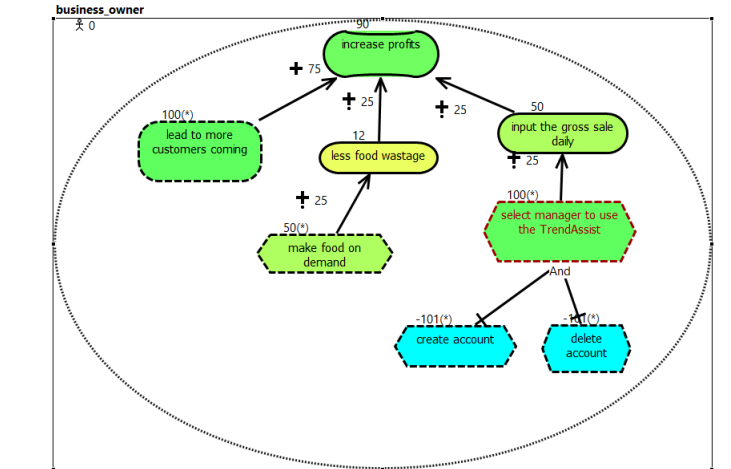second case:

manager run the program

3 Identifying a set of high-level goals and show their trade-offs between different alternative solutions.Create a set of strategies for the alternative solutions and reason about why certain solutions have been picked.
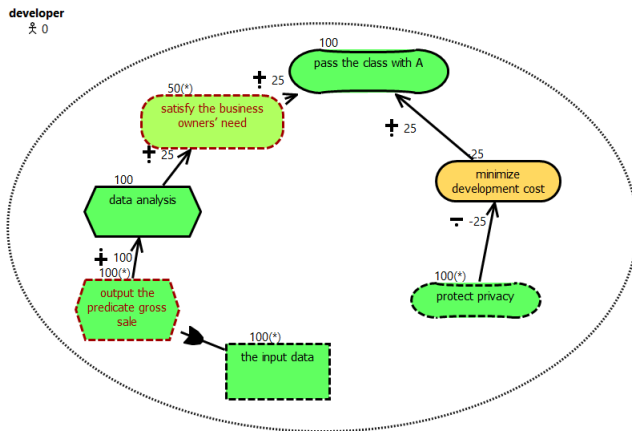
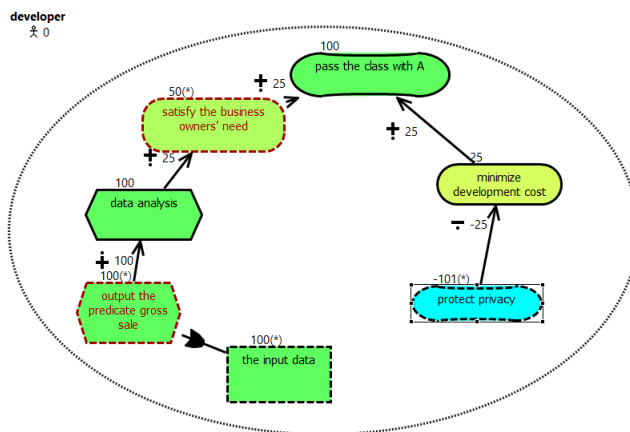business owner A:

business owner B:

As shown in figure A and B, A is the best option for satisfying the soft goal of increasing profit, because without creating account or create accounts, the owner needs to charge the restaurant by himself, but if there is one manager can help him, it will be more effective.
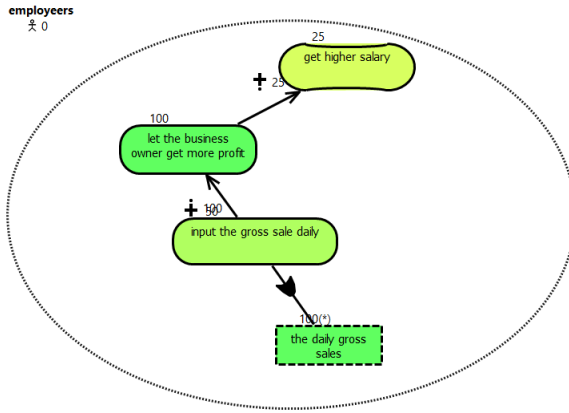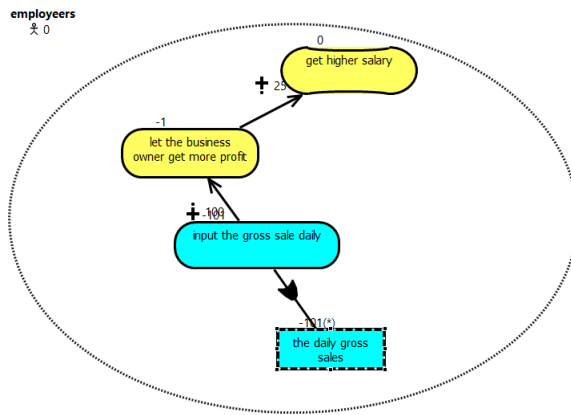
developer A:

developer B:

As shown in figure A and B, A is the best option for satisfying the soft goal of passing class with A, because

without protecting privacy, the application lose the meaning to build it, privacy is the most important to implement.
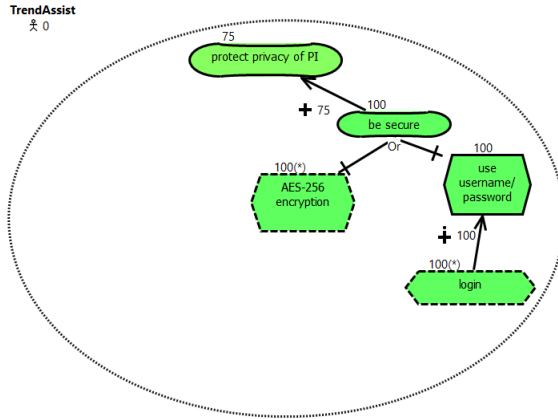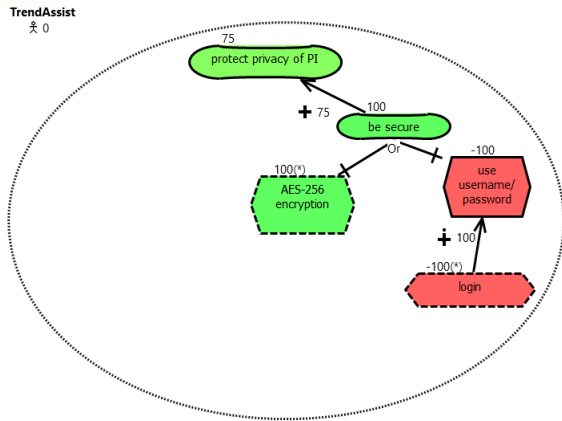
Employeers A:

Employeers B:

As shown in figure A and B, A is the best option for satisfying the soft goal of getting higher salary, because without the daily gross sales,the application cannot retrieve any statistics, and then the application cannot work.
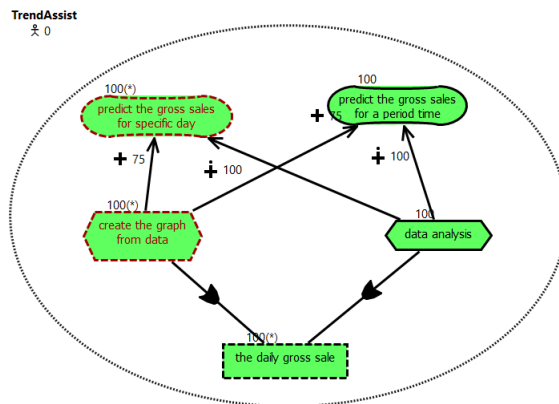
TrendAssist-privacy A:
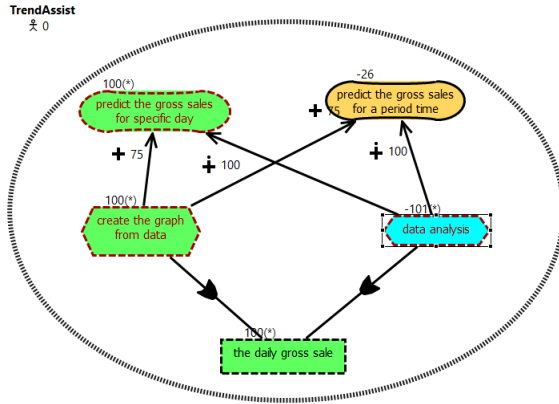
TrendAssist-privacy B:

As shown in figure A and B, A is the best option for satisfying the soft goal of protecting privacy of PI, because without logging in, the user cannot use that application.

TrendAssist-Functionalities A:

TrendAssist-Functionalities B:

As shown in figure A and B, A is the best option for satisfying the soft goal of protecting the gross for a period time, because without data analysis, the application cannot predicate any gross sales and then application is useless.