

Project Report for Project 2

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- Provider's company information

Provider

Applet

Company Distributor Distributor Connection

Company information

Company name: NCCU

Address: TAIPEI

Contact me: 0000-000-111

Save Information Load Information

- Provider's available commodities for distributor

Provider

Applet

Company Distributor Distributor Connection

Items sold to customers

ID	Name	Item Type	Price	Available
1	COOKIE	COOKIE	20.0	30
2	candy	candy	10.0	50
3	choco	choco	20.0	10

Please press enter after finishing editing info in table(make sure to leave the editing situation)

Add a row Delete selected rows

Save Information Load Information

- Button for connecting to distributors and table showing distributor lists of name

Provider

Applet

Company Distributor Distributor Connection

Distributor Name
CCU
CNN
NTU
CIA
CNA

Connect to distributor!

Add a row Delete selected rows

Save Information Load Information

Applet

- Provider's message box with an assigned port number

Provider Application: NCCU

the port number is:5570

Broadcast message

- Distributor's company information

Distributor

Applet

Company Customer_Sell Items Provider_Need Items Provider Connection

Company information

Company name: NTU

Address: Taichung

Contact me: tel: 0800-000-111

Save Information Load Information

- Distributor's items sold to customer

Distributor

Applet

Company Customer_Sell Items Provider_Need Items Provider Connection

Items sold to customers

ID	Name	Item Type	Price	Available
1	Monster	BEAR	10.0	50
2	candyCrush	CANDY	30.0	400

Please press enter after finishing editing info in table(make sure to leave the editing situation)

Add a row Delete selected rows

Save Information Load Information

- Distributor's items needed from providers

Distributor

Applet

Company Customer_Sell Items Provider_Need Items Provider Connection

Items needed from providers

ID	Name	Item Type	Price	Available
2	cookieMon...	cookie	20.0	100
3	choco	chocolate	30.0	200

Please press enter after finishing editing info in table(make sure to leave the editing situation)

Add a row Delete selected rows Supply List Request

Save Information Load Information

Request to providers for needed items.

Applet

- Button for connecting to provider

Distributor

Applet

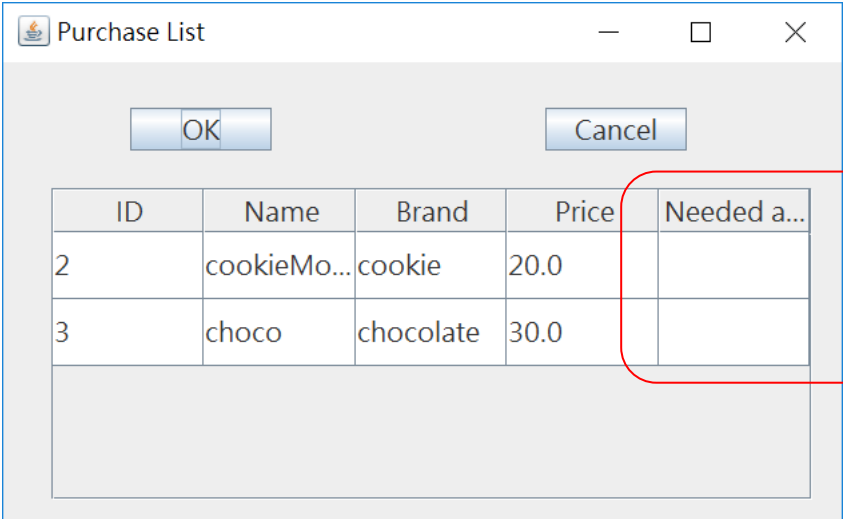
Company Customer_Sell Items Provider_Need Items Provider Connection

Connect to provider!

Save Information Load Information

Applet

- Purchase list showing items requesting to providers



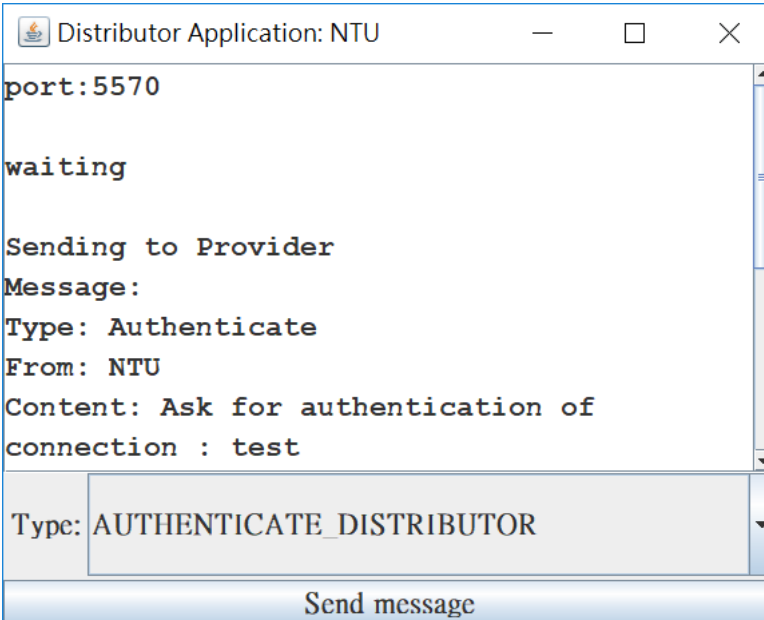
Purchase List

OK Cancel

ID	Name	Brand	Price	Needed a...
2	cookieMo...	cookie	20.0	
3	choco	chocolate	30.0	

Type in needed amounts

- Distributor's message box – sending authentication request



Distributor Application: NTU

port:5570

waiting

Sending to Provider

Message:

Type: Authenticate

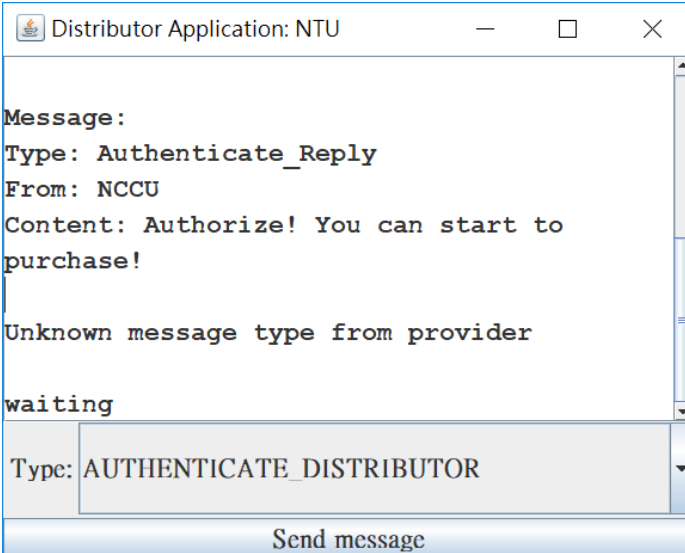
From: NTU

Content: Ask for authentication of connection : test

Type: AUTHENTICATE_DISTRIBUTOR

Send message

- Distributor's message box – Reply message with Authentication from provider



Distributor Application: NTU

Message:

Type: Authenticate_Reply

From: NCCU

Content: Authorize! You can start to purchase!

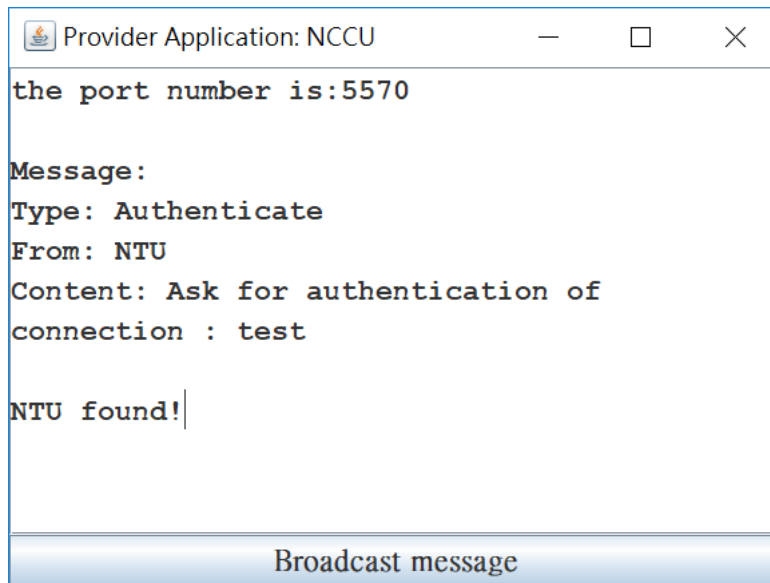
Unknown message type from provider

waiting

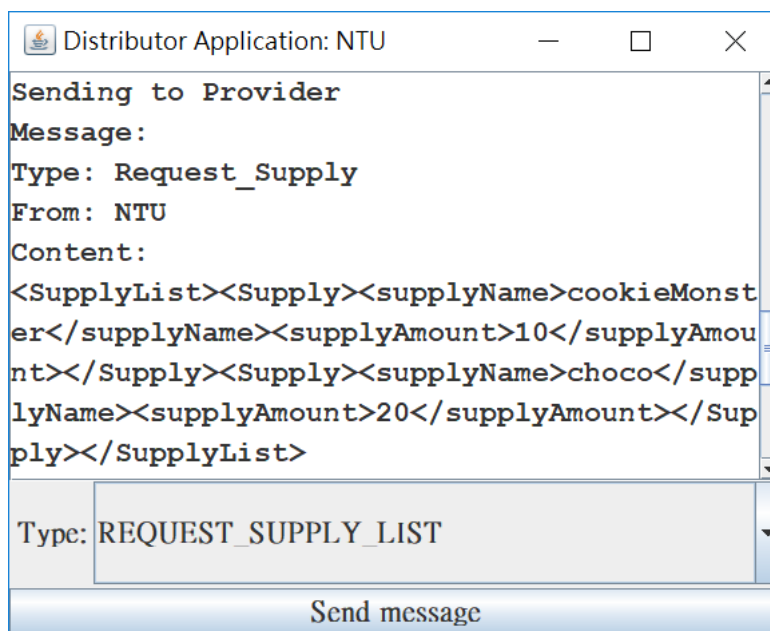
Type: AUTHENTICATE_DISTRIBUTOR

Send message

- Provider's message box – receiving authentication message from providers



- Distributor's message box – sending supply list request to provider



- Distributor's message box – receiving request supply reply from providers

Distributor Application: NTU

Message:

Type: Request_Supply_Reply

From: NCCU

Content: supplylistReply: cookieMonster:Not found!choco:Found, Not enough amount!

Unknown message type from provider

waiting

Type: REQUEST_SUPPLY_LIST

Send message

- Provider's message box – receiving supply request from distributors

Provider Application: NCCU

Message:

Type: Request_Supply

From: NTU

Content: supplylist:cookieMonster:10,choco:20,

Broadcast message

- Distributor's message box – sending purchase request to providers

Distributor Application: NTU

Sending to Provider

Message:

Type: Request_Purchase

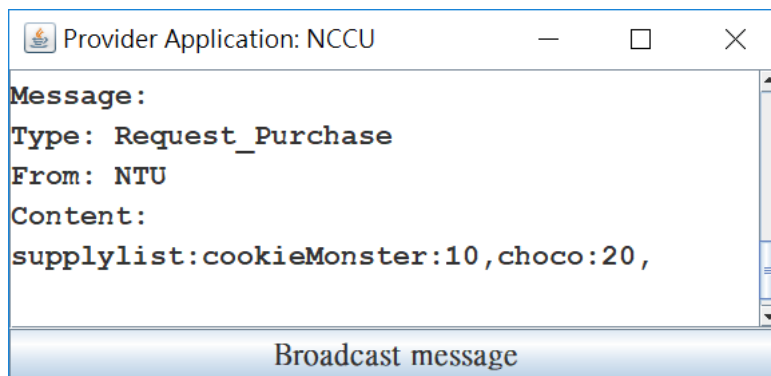
From: NTU

Content: <SupplyList><Supply><supplyName>cookieMonst
er</supplyName><supplyAmount>10</supplyAmou
nt></Supply><Supply><supplyName>choco</supp
lyName><supplyAmount>20</supplyAmount></Sup
ply></SupplyList>

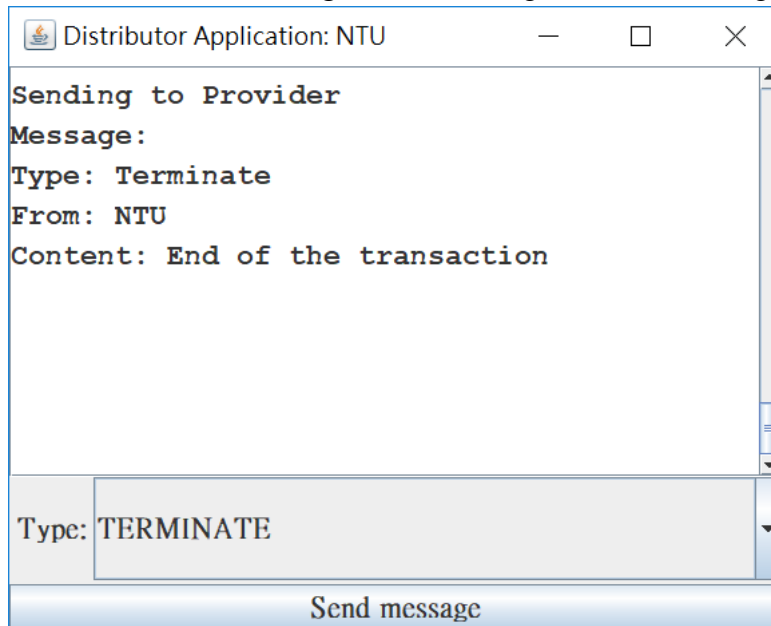
Type: REQUEST_PURCHASE

Send message

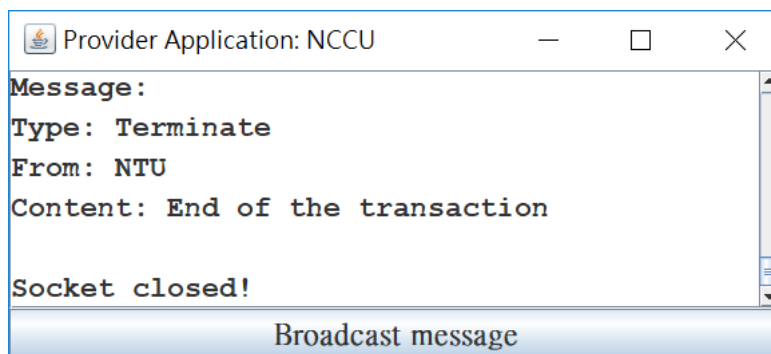
- Provider's message box – receiving purchase request from distributors



- Distributor's message box – sending terminate message to providers



- Provider's message box – receiving end of communication from distributors



● Provider's xml file

```
<?xml version="1.0"?>
- <Provider>
  - <CompanyInfo>
    <CompanyName>NCCU</CompanyName>
    <CompanyAddress>TAIPEI</CompanyAddress>
    <CompanyContact>0000-000-111</CompanyContact>
  </CompanyInfo>
  - <ItemsSold>
    - <SellSupply>
      - <Supply>
        <SupplyID>1</SupplyID>
        <SupplyName>COOKIE</SupplyName>
        <SupplyBrand>COOKIE</SupplyBrand>
        <SupplyPrice>20.0</SupplyPrice>
        <SupplyAvailable>30</SupplyAvailable>
      </Supply>
    </SellSupply>
    - <SellSupply>
      - <Supply>
        <SupplyID>2</SupplyID>
        <SupplyName>candy</SupplyName>
        <SupplyBrand>candy</SupplyBrand>
        <SupplyPrice>10.0</SupplyPrice>
        <SupplyAvailable>50</SupplyAvailable>
      </Supply>
    </SellSupply>
    - <SellSupply>
      - <Supply>
        <SupplyID>3</SupplyID>
        <SupplyName>choco</SupplyName>
        <SupplyBrand>choco</SupplyBrand>
        <SupplyPrice>20.0</SupplyPrice>
        <SupplyAvailable>10</SupplyAvailable>
      </Supply>
    </SellSupply>
  </ItemsSold>
  - <DistributorName>
    <Name>CCU</Name>
    <Name>CNN</Name>
    <Name>NTU</Name>
    <Name>CIA</Name>
    <Name>CNA</Name>
  </DistributorName>
</Provider>
```

- Distributor's xml file

```
<?xml version="1.0"?>
- <Distributor>
  - <CompanyInfo>
    <CompanyName>NTU</CompanyName>
    <CompanyAddress>Taichung</CompanyAddress>
    <CompanyContact>tel: 0800-000-111</CompanyContact>
  </CompanyInfo>
  - <ItemsSold>
    + <SellSupply>
      - <SellSupply>
        - <Supply>
          <SupplyID>2</SupplyID>
          <SupplyName>candyCrush</SupplyName>
          <SupplyBrand>CANDY</SupplyBrand>
          <SupplyPrice>30.0</SupplyPrice>
          <SupplyAvailable>400</SupplyAvailable>
        </Supply>
      </SellSupply>
    </ItemsSold>
  - <ItemsNeeded>
    - <NeedSupply>
      - <Supply>
        <SupplyID>2</SupplyID>
        <SupplyName>cookieMonster</SupplyName>
        <SupplyBrand>cookie</SupplyBrand>
        <SupplyPrice>20.0</SupplyPrice>
        <SupplyNeeded>100</SupplyNeeded>
      </Supply>
    </NeedSupply>
    + <NeedSupply>
  </ItemsNeeded>
</Distributor>
```