

Market System with Delivery

Using Eclipse Equinox

Done By:

EVENTORS 4.0

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PROJECT DESCRIPTION

INTRODUCTION

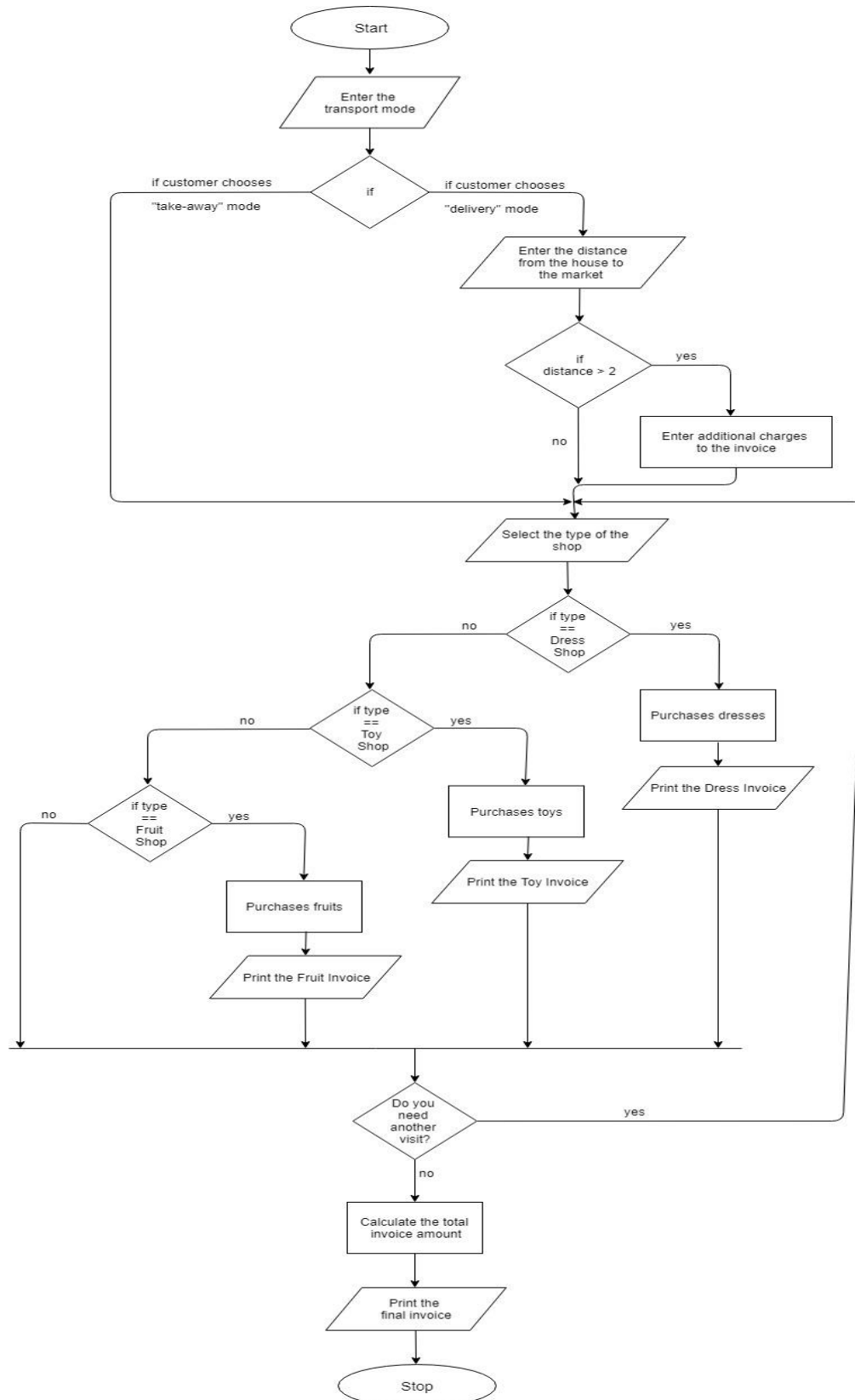
- We have implemented a Shop and Delivery System using Eclipse Equinox OSGi Framework. Let us explain this briefly. The system comprises of **Four Producers**: Fruit Shop, Toy Shop, Cloth Shop and Delivery Service and **One Consumer**. The purpose of having only one consumer is that if more than one consumer bundles are implemented, all the consumer bundles will be behaving in the same way which will be a duplicate implementation of consumer bundles. The IDE used was Eclipse and written on Java programming language.

IMPLEMENTATION

- First, when the consumer bundle is started, the system will prompt the user whether the user wishes for a delivery service. If so, consumer is asked for the distance between delivery location and the shop. If the distance exceeds 2km, additional charges will apply. Then the system prompts the user to select a shop and then selects an item to buy and quantity to buy. After the user finishes the purchases in a shop, he/she can purchase in another shop. At the end of each purchase, an invoice will be printed and after the end of all purchase, a final invoice will be printed as well. If there are any delivery charges are added by user at the beginning, those charges will also be added to the final invoice.

FOR BETTER UNDERSTANDING, A FLOWCHART FOR THE SYSTEM HAS BEEN ATTACHED IN THE NEXT PAGE.

SYSTEM FLOWCHART



SYSTEM SCREENSHOTS

Eclipse Workspace - FruitShop/META-INF/MANIFEST.MF - Eclipse IDE

```

File Edit Navigate Search Project Run Window Help
New_configuration [OSGi Framework] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Mar 30, 2019, 7:56:50 PM)
955 ACTIVE org.w3c.dom.svg_1.1.0.v201811041433
964 ACTIVE TransportService_1.0.0.qualifier
965 RESOLVED Customer_02_1.0.0.qualifier
966 ACTIVE DerssShop_1.0.0.qualifier
967 ACTIVE FruitShop_1.0.0.qualifier
968 ACTIVE ToyShop_1.0.0.qualifier
osgi>
osgi>
osgi> start 965
Going to market..... Customer bundle starting
Do you want home delivery?
yes
What is the distance between the market & your home?
15
Select a shop!
1: Dress Shop
2:Fruit Shop
3: Toy Shop
1
T-shirt 1200 LKR
Shirt 1000 LKR
Jeans 2000 LKR
Select Dress!
1: Shirt
2: T-Shirt
3: Jeans
1
How many shirt/s do you want?
5
Current Bill: 5000LKR
Do you want to continue? 'yes' for YES
'no' for NO
yes
Select Dress!
1: Shirt
2: T-Shirt
3: Jeans
1

```

Eclipse Workspace - FruitShop/META-INF/MANIFEST.MF - Eclipse IDE

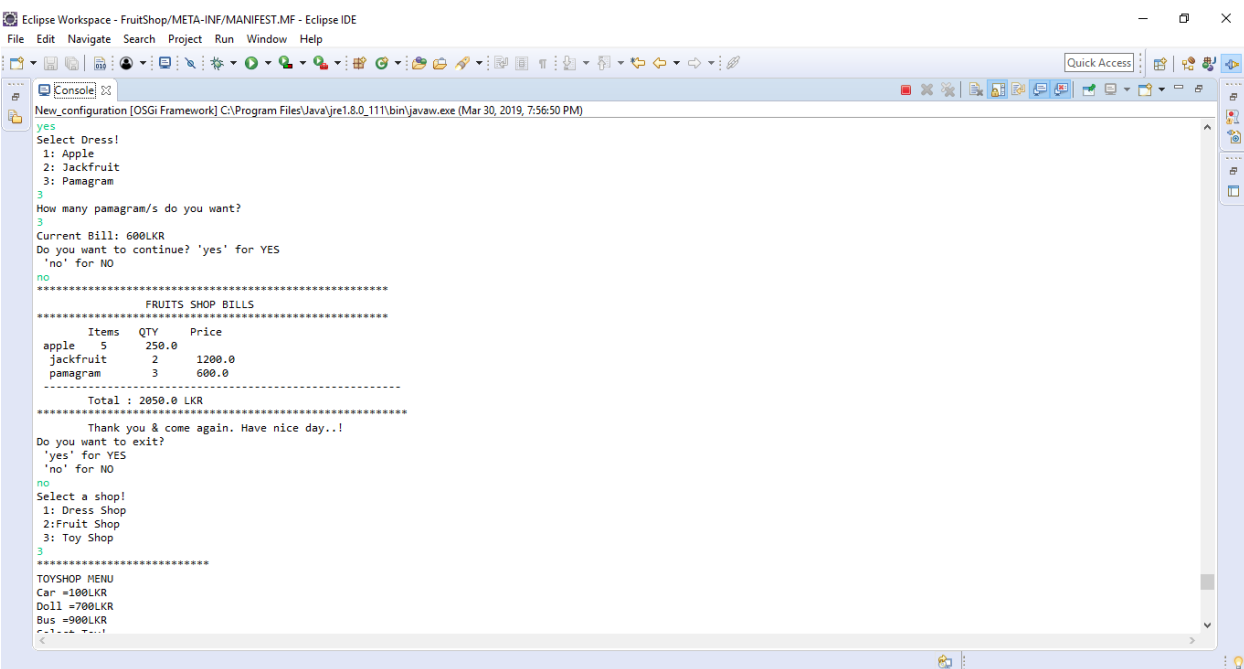
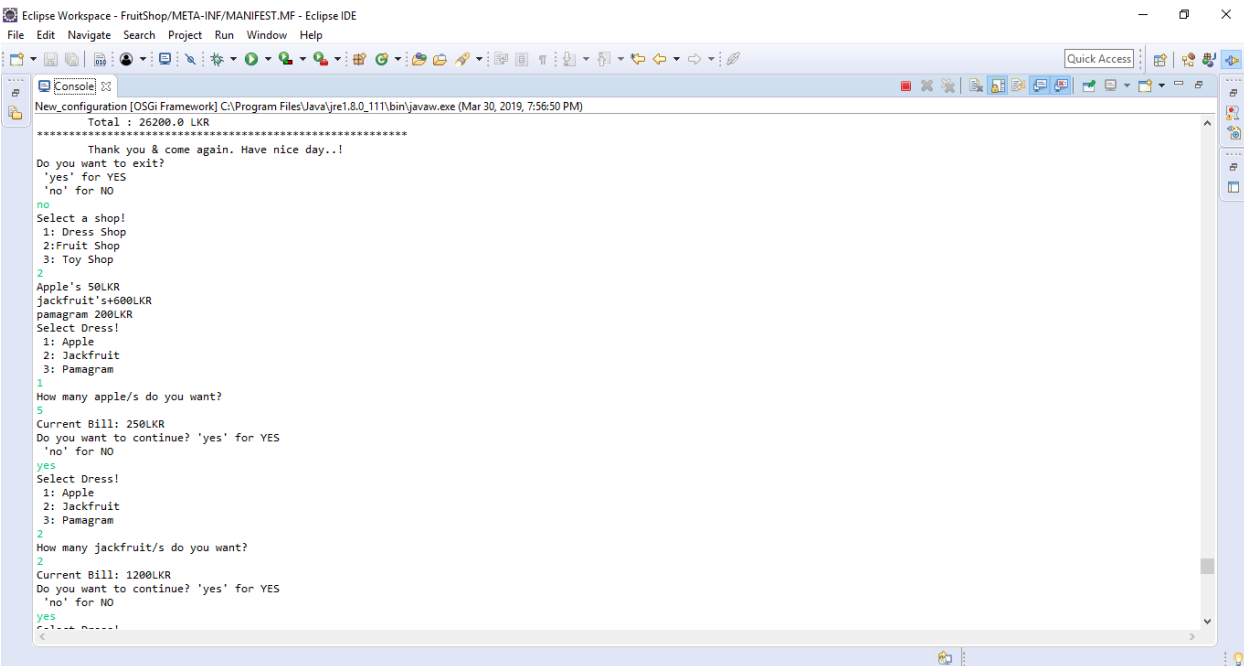
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File Edit Navigate Search Project Run Window Help
New_configuration [OSGi Framework] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Mar 30, 2019, 7:56:50 PM)
Do you want to continue? 'yes' for YES
'no' for NO
yes
Select Dress!
1: Shirt
2: T-Shirt
3: Jeans
2
How many T-shirt/s do you want?
6
Current bill: 7200LKR
Do you want to continue? 'yes' for YES
'no' for NO
yes
Select Dress!
1: Shirt
2: T-Shirt
3: Jeans
3
How many Jean/s do you want?
7
Current Bill: 14000LKR
Do you want to continue? 'yes' for YES
'no' for NO
no
=====
Dress Shop Bill
=====
Items QTY Price
shirt 5 5000.0
t-shirt 6 7200.0
pant's 7 14000.0
=====
Total : 26200.0 LKR
=====
Thank you & come again. Have nice day..!
Do you want to exit?

```

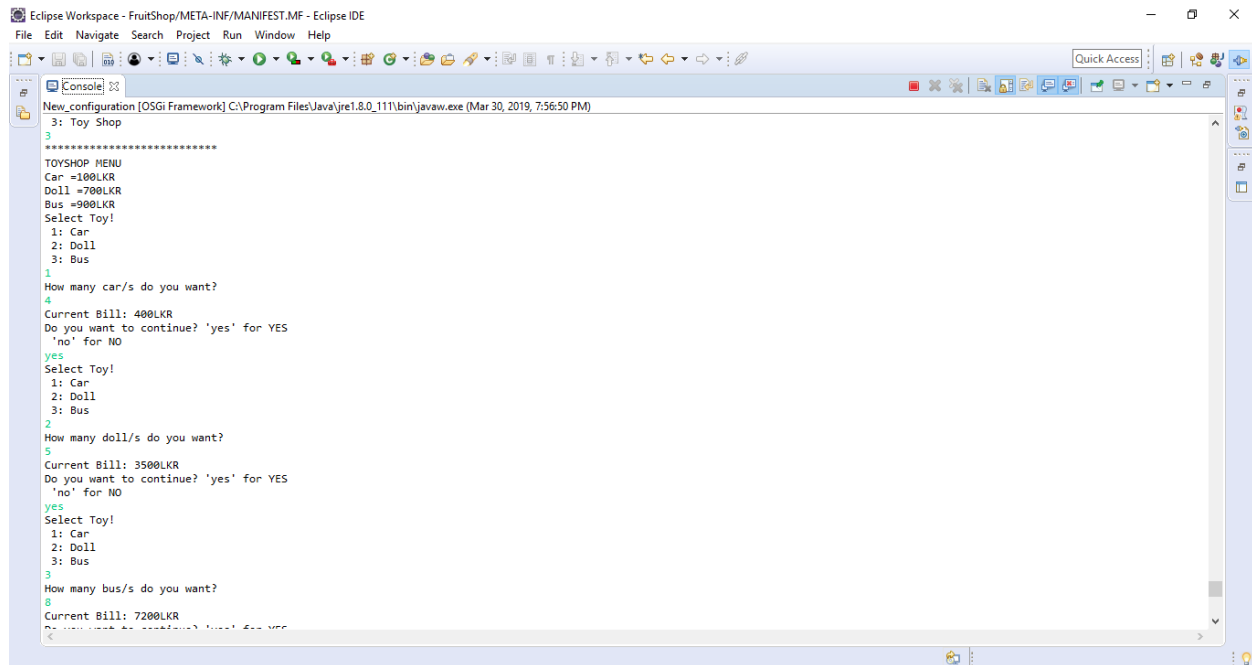
MARKET SCENARIO – OSGI FRAMEWORK

SYSTEM SCREENSHOTS...



MARKET SCENARIO – OSGI FRAMEWORK

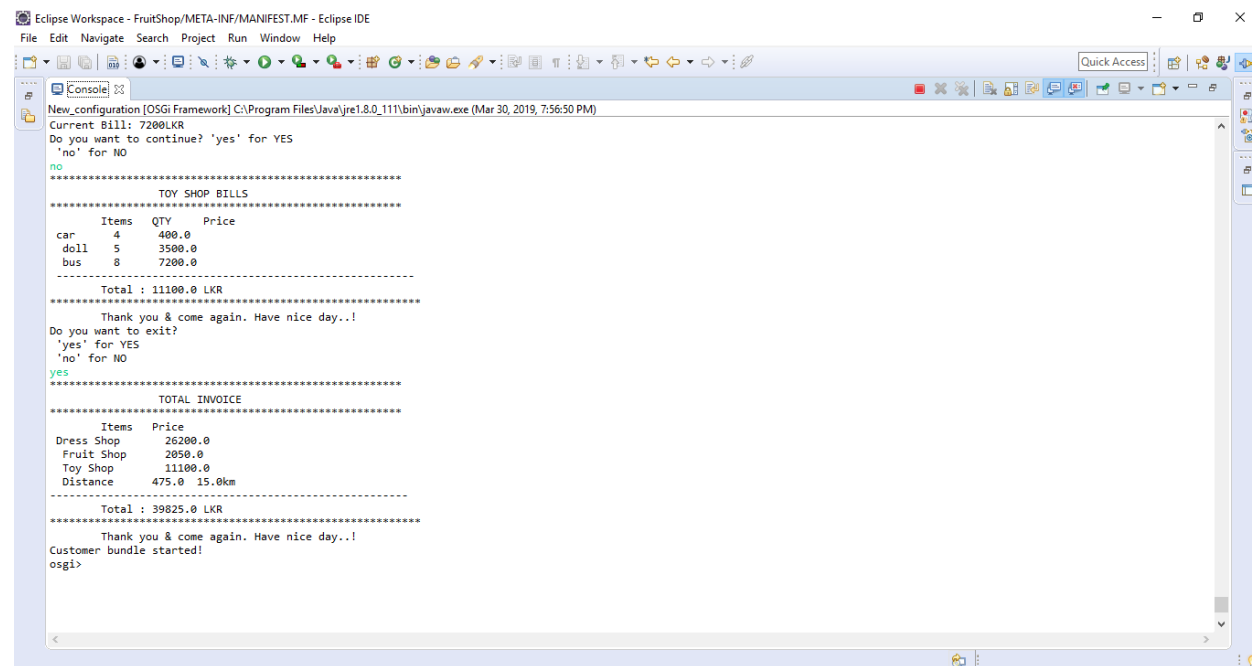
SYSTEM SCREENSHOTS...



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Eclipse Workspace - FruitShop/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help

New_configuration [OSGi Framework] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Mar 30, 2019, 7:56:50 PM)

3: Toy Shop
=====
TOYSHOP MENU
Car =100LKR
Doll =700LKR
Bus =900LKR
Select Toy!
1: Car
2: Doll
3: Bus
1
How many car/s do you want?
4
Current Bill: 400LKR
Do you want to continue? 'yes' for YES
'no' for NO
yes
Select Toy!
1: Car
2: Doll
3: Bus
2
How many doll/s do you want?
5
Current Bill: 3500LKR
Do you want to continue? 'yes' for YES
'no' for NO
yes
Select Toy!
1: Car
2: Doll
3: Bus
3
How many bus/s do you want?
8
Current Bill: 7200LKR
Do you want to continue? 'yes' for YES
'no' for NO
```

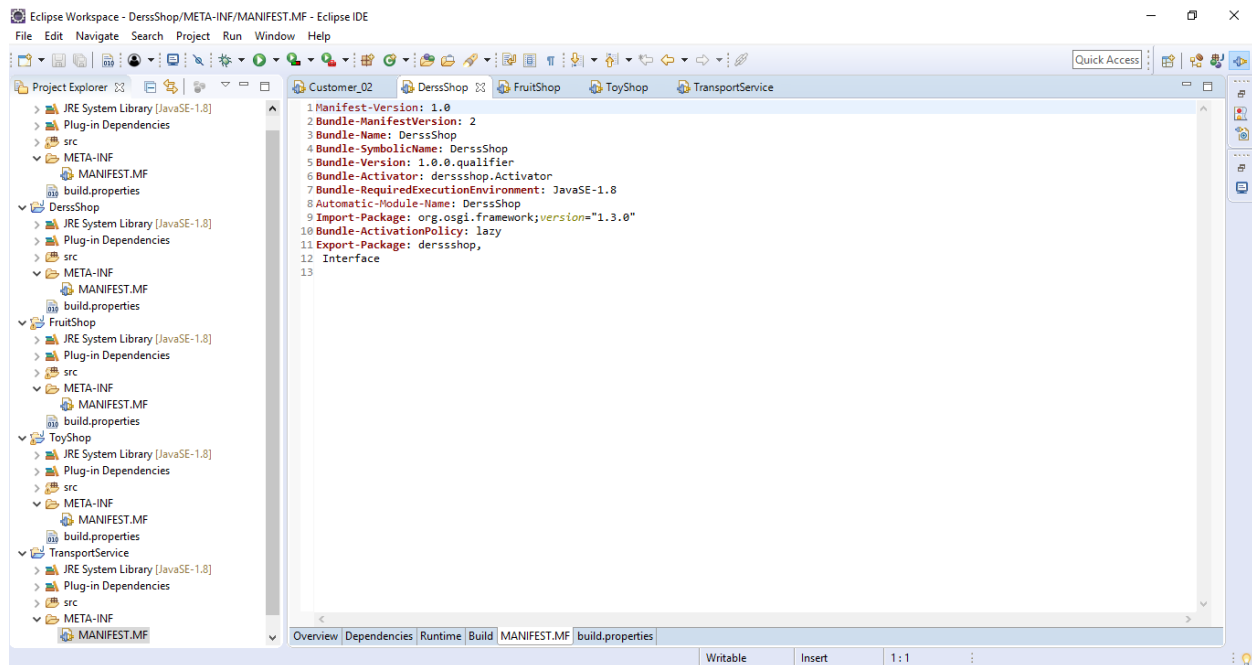
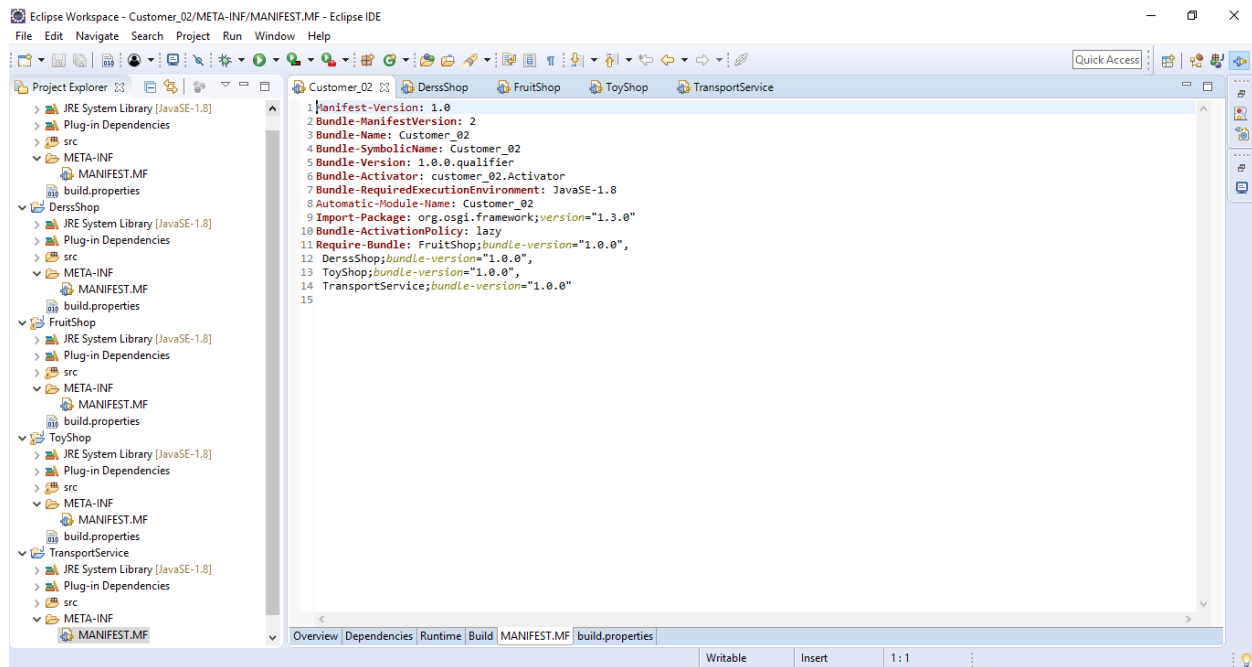


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Eclipse Workspace - FruitShop/META-INF/MANIFEST.MF - Eclipse IDE
File Edit Navigate Search Project Run Window Help

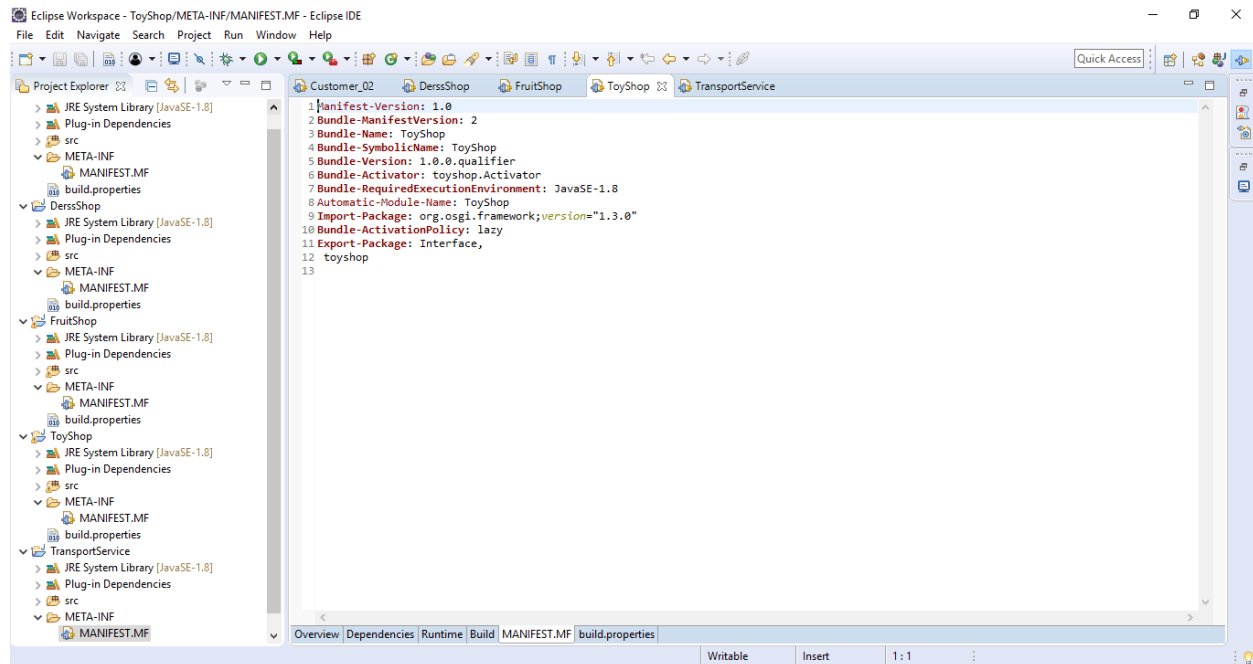
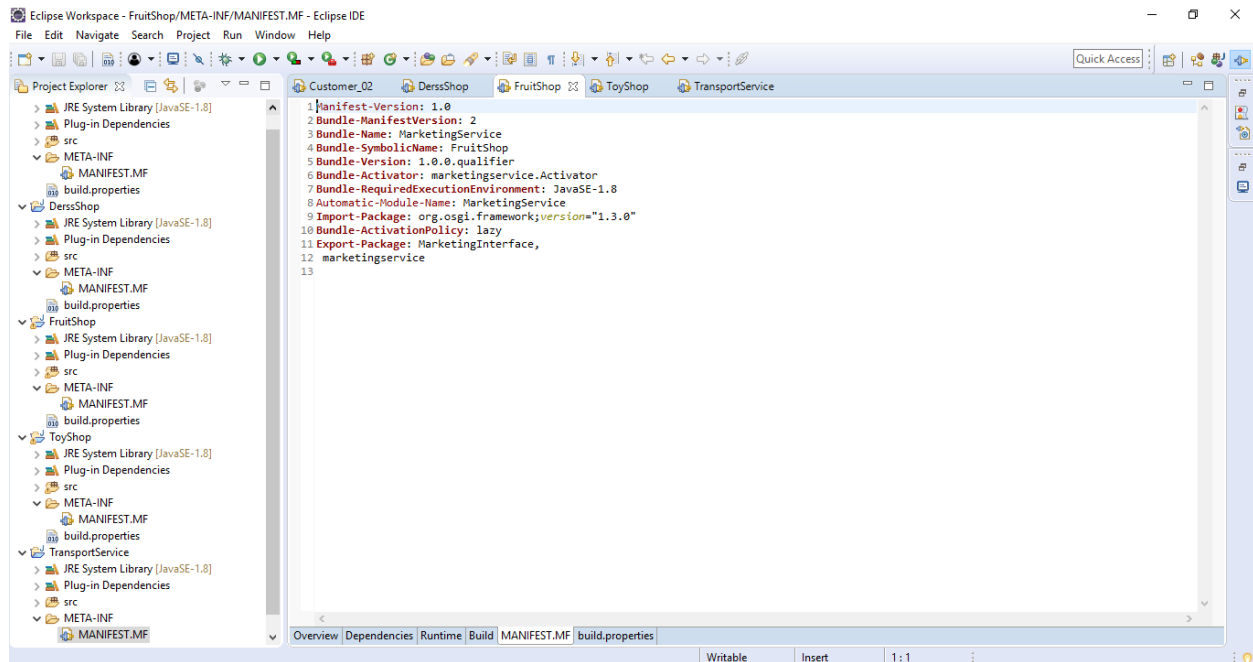
New_configuration [OSGi Framework] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Mar 30, 2019, 7:56:50 PM)

Current Bill: 7200LKR
Do you want to continue? 'yes' for YES
'no' for NO
no
=====
TOY SHOP BILLS
=====
Items QTY Price
car 4 400.0
doll 5 3500.0
bus 8 7200.0
=====
Total : 11100.0 LKR
=====
Thank you & come again. Have nice day..!
Do you want to exit?
'yes' for YES
'no' for NO
yes
=====
TOTAL INVOICE
=====
Items Price
Dress Shop 26200.0
Fruit Shop 2050.0
Toy Shop 11100.0
Distance 475.0 15.0km
=====
Total : 39825.0 LKR
=====
Thank you & come again. Have nice day..!
Customer bundle started!
osgi>
```

MANIFEST FILES – SCREENSHOTS



MANIFEST FILES – SCREENSHOTS...



MANIFEST FILES – SCREENSHOTS...

