



Sri Lanka Institute of Information Technology Sri Lanka

B.Sc. (Hons) in Information Technology

MODERN TOPICS IN INFORMATION TECHNOLOGY
(IT4020)

Assignment Report

Assignment 01

Declaration

We declare that this is our own work, and this proposal does not incorporate without acknowledgement any material previously submitted for a degree or diploma in any other university or Institute of higher learning and to the best of our knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

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Introduction

This is a plug-in project with numerous plug-ins that will connect together, as well as a producer who will produce services and consumers who will consume those services and make it available to the user. The Apache Felix Framework was used to construct this, which was installed and ran on the Eclipse Equinox platform.

This is for an Online Shopping store. Mainly, this online store has variety of categories.

- Men's clothes section
- Women's clothes section
- Kids clothes section
- Shoes section

User can go to each main sector and buy whatever they want based on their wishes. For this OSGi framework Men's clothes, Women's clothes, Kids clothes and shoes sections are the producers/services of this system. The consumer/subscriber of the system is online shop.

Main objective of this system is to provide a service for clients to buy the clothes online using this system.

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1. System Diagram

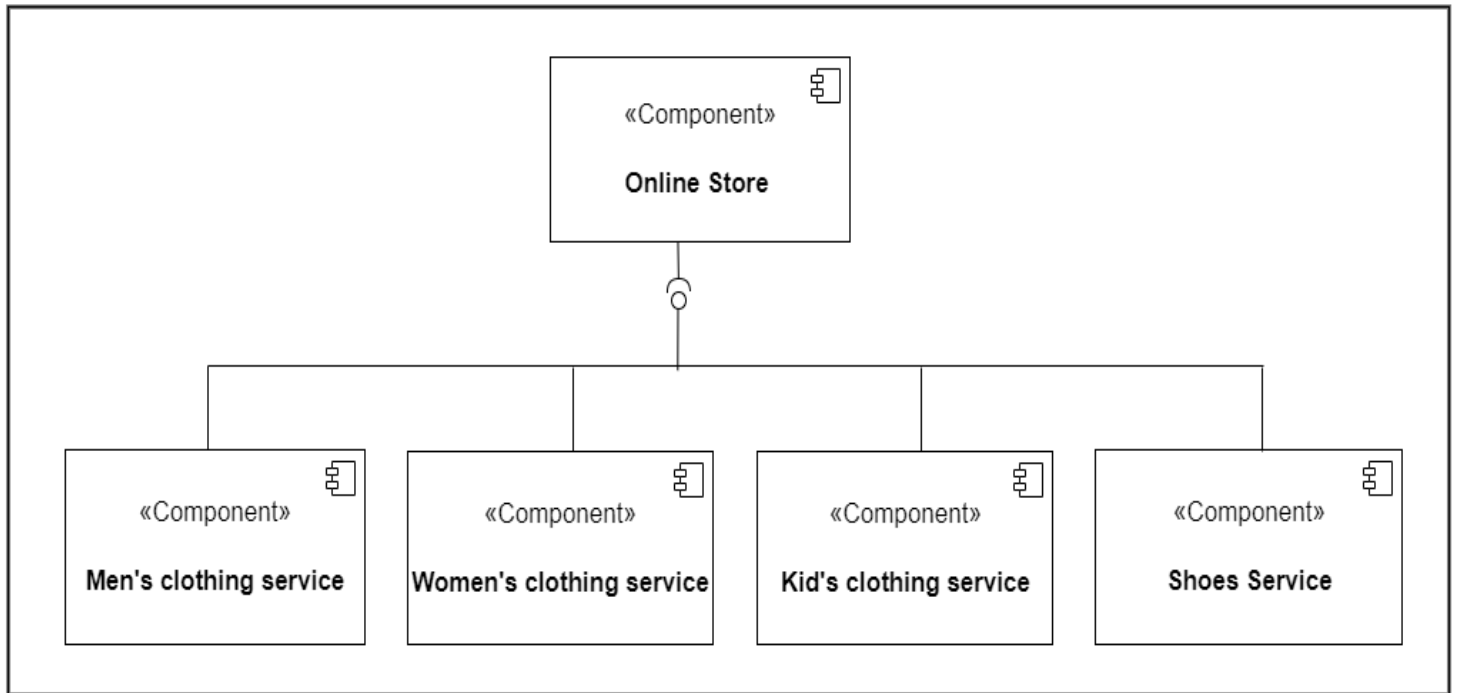


Figure 1.1: Overall System Diagram

2. Manifest implementations

Online Kids Shop publisher (Producer/Service)

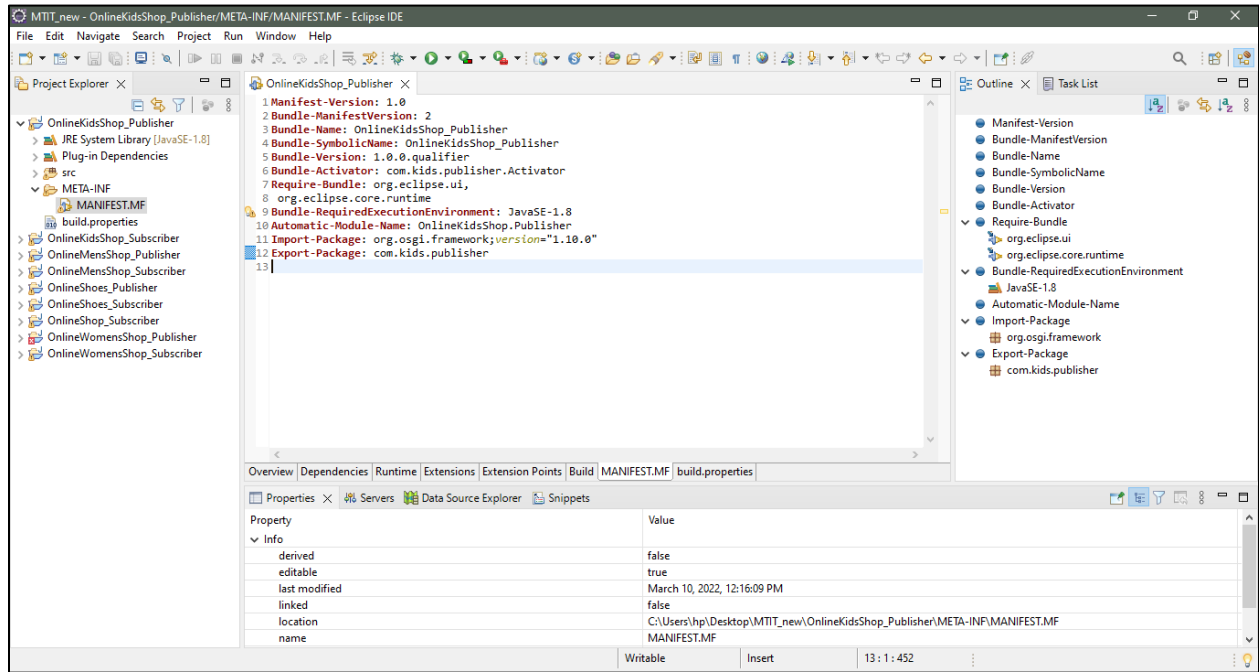


Figure 2.1: Online Kids Shop publisher Manifest.mf file

Online Men Shop publisher (Producer/Service)

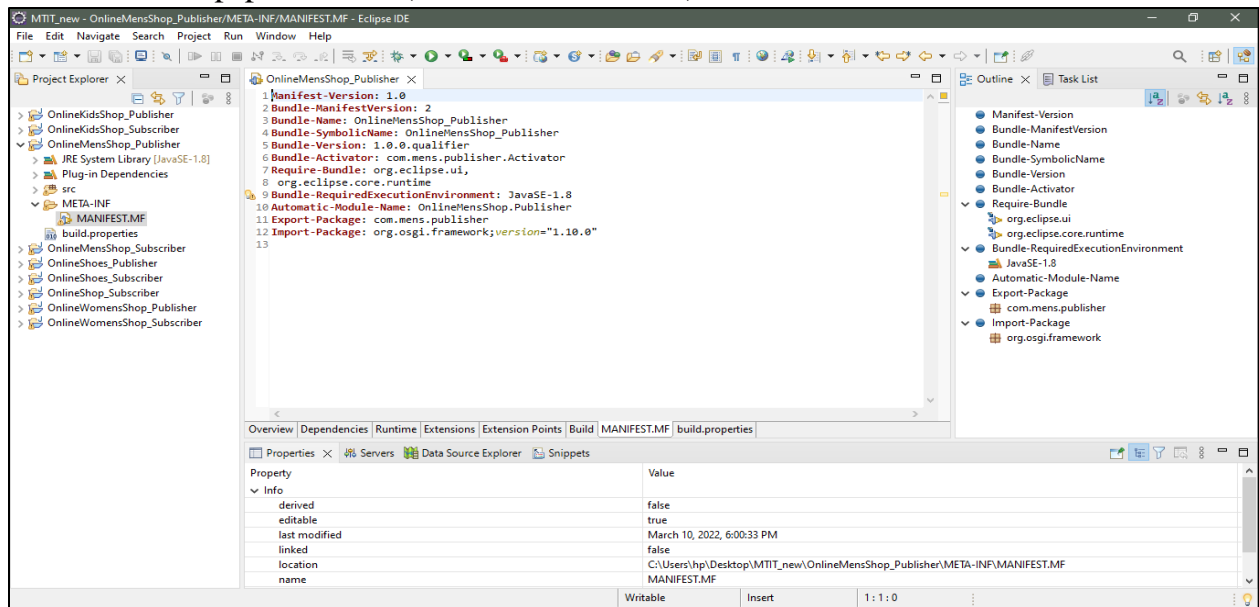


Figure 2.2: Online Men Shop publisher Manifest.mf file

Online Shoes publisher (Producer/Service)

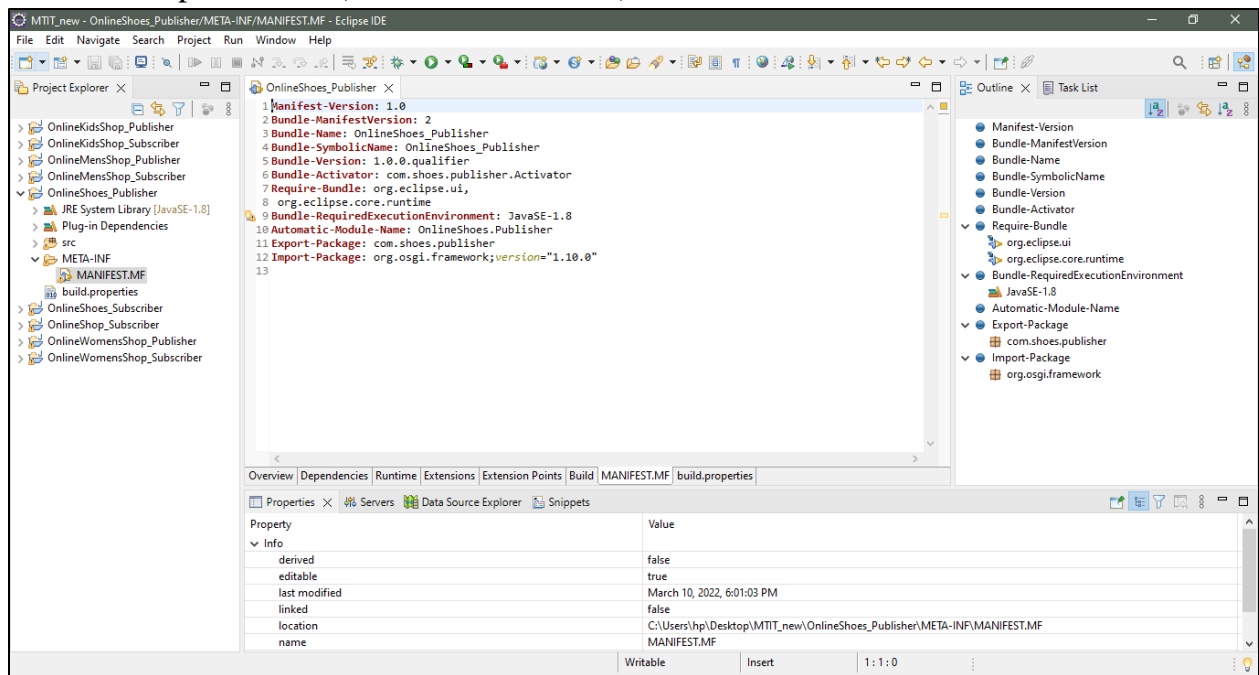


Figure 2.3: Online Shoes publisher Manifest.mf file

Online Women's Shop publisher (Producer/Service)

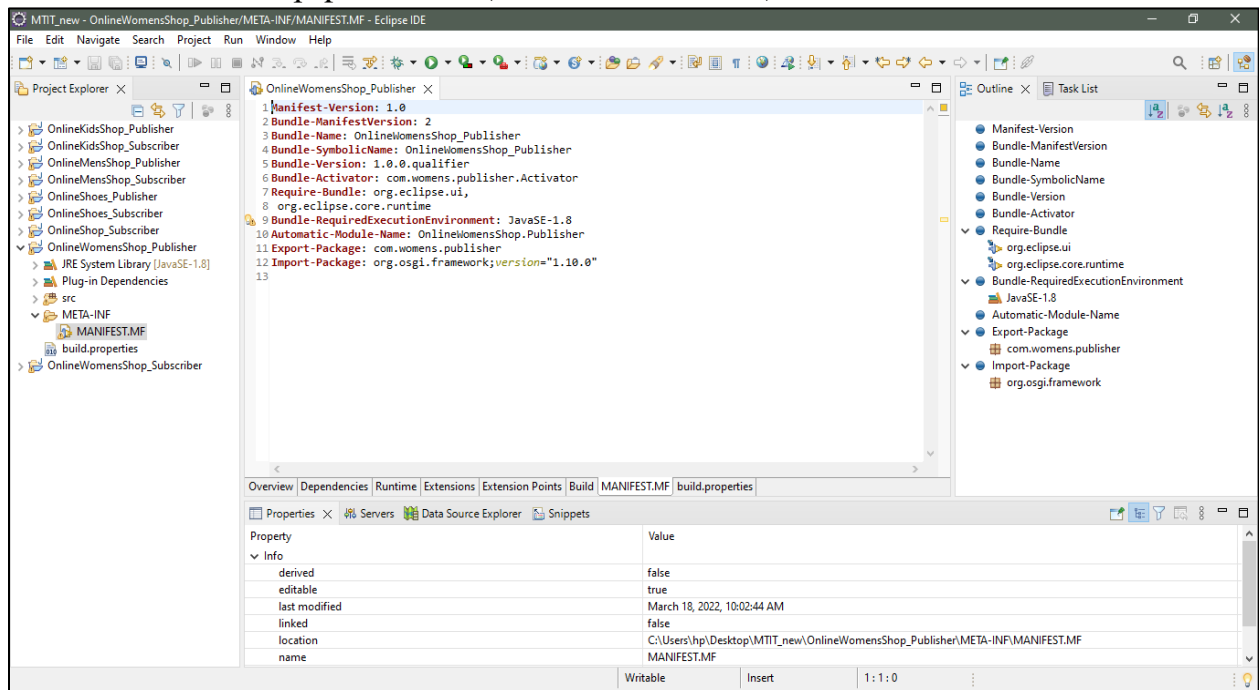


Figure 2.4: Online Women's Shop publisher Manifest.mf file

Kids Shop subscriber (Consumer/Subscriber)

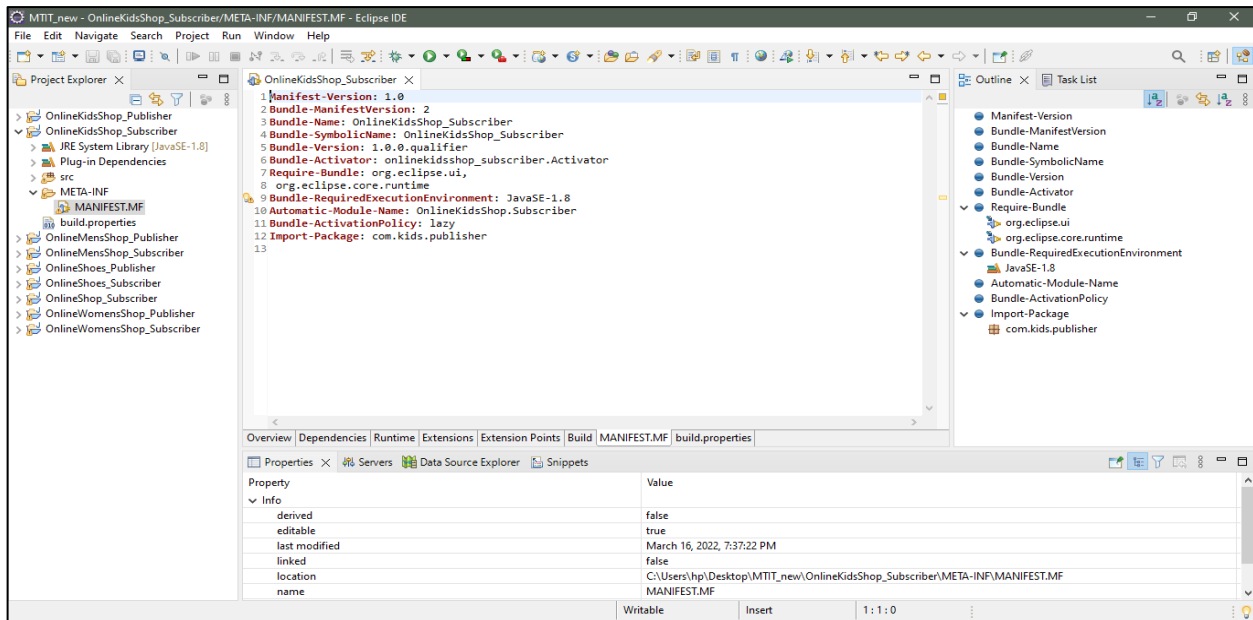


Figure 2.5: Online kids Shop subscriber Manifest.mf file

Men Shop subscriber (Consumer/Subscriber)

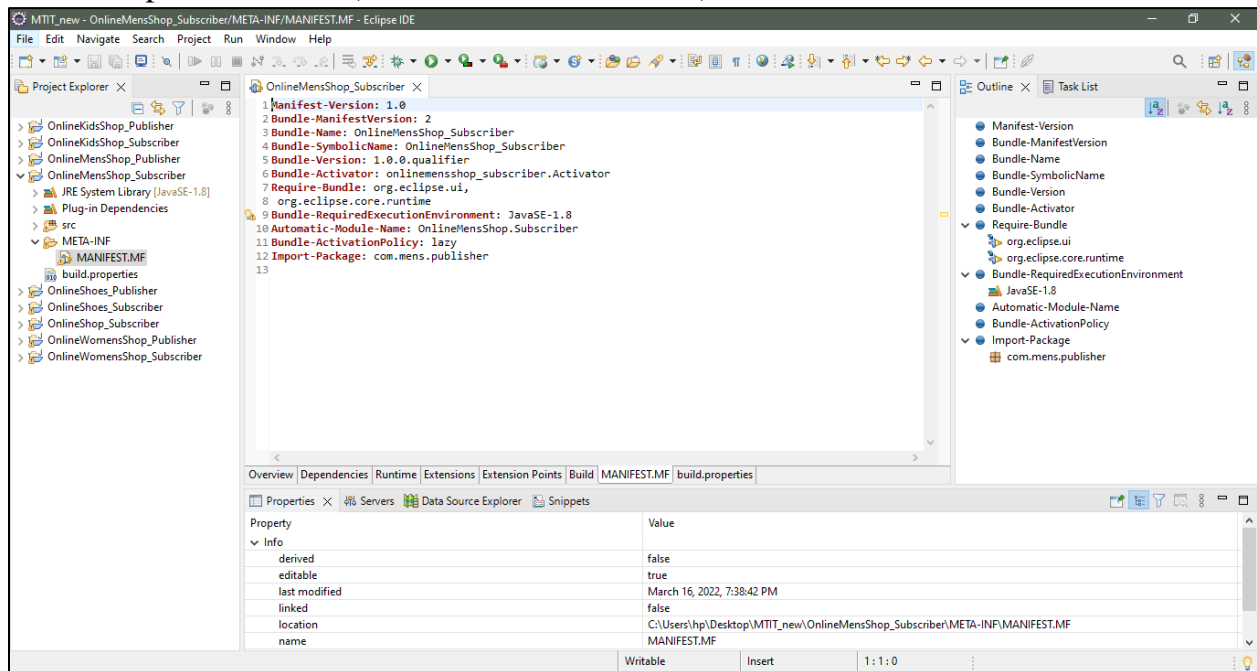


Figure 2.6: Online Men Shop subscriber Manifest.mf file

Online shoes subscriber (Consumer/Subscriber)

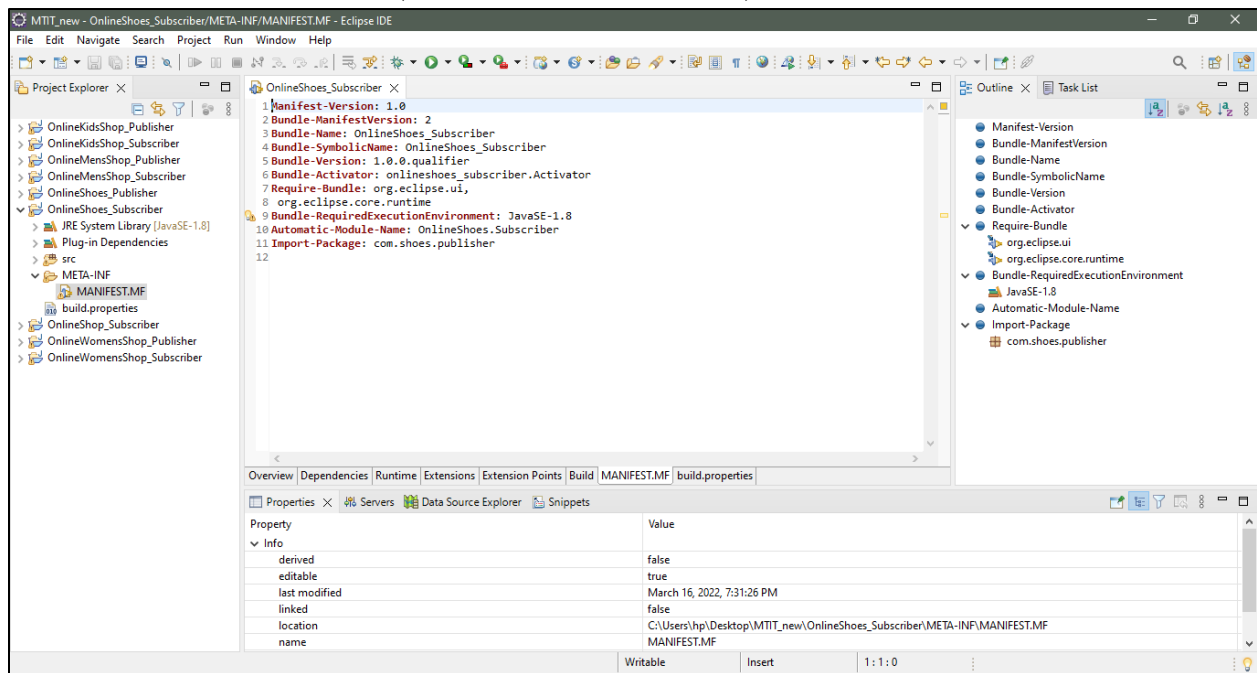


Figure 2.7: Online shoes Subscriber Manifest.mf file

Online Women shop subscriber (Consumer/Subscriber)

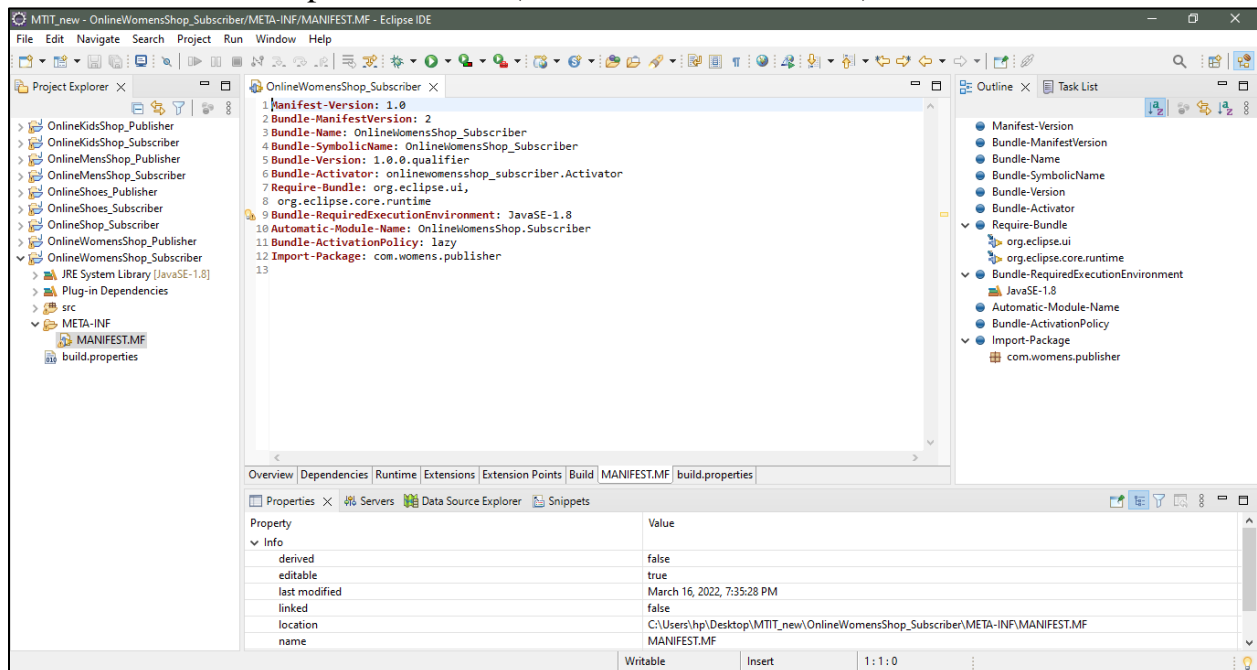


Figure 2.8: Online shoes subscriber Manifest.mf file

Integrated - Online shop subscriber (Consumer/Subscriber)

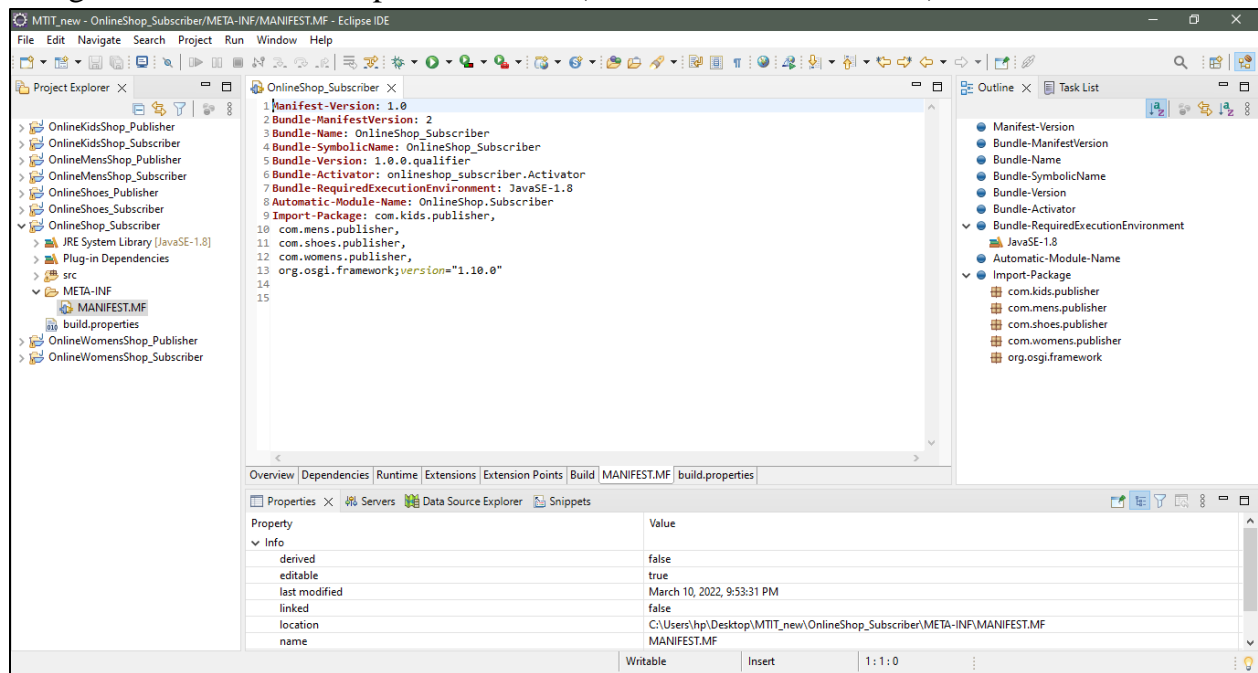


Figure 2.9: Online Shop subscriber Manifest.mf file

3. Bundles

Online Kids Shop publisher

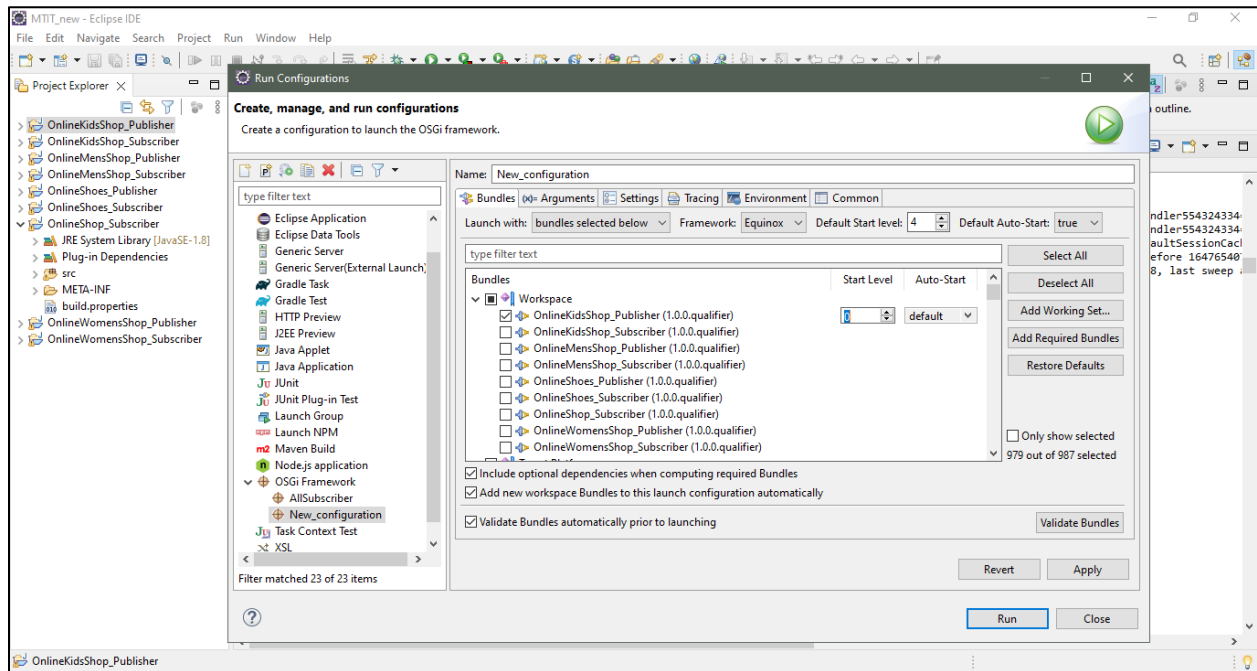


Figure 3.1 : Online Kids Shop publisher bundle

Online Men Shop publisher

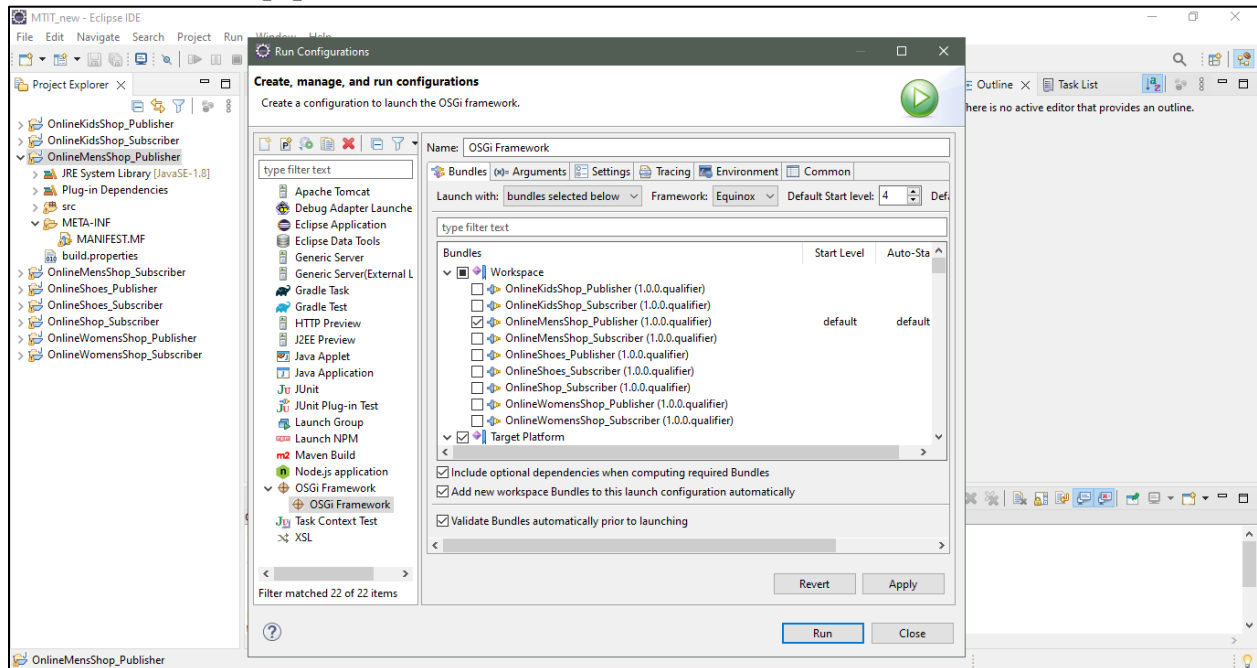


Figure 3.2: Online Men Shop publisher bundle

Online Shoes publisher

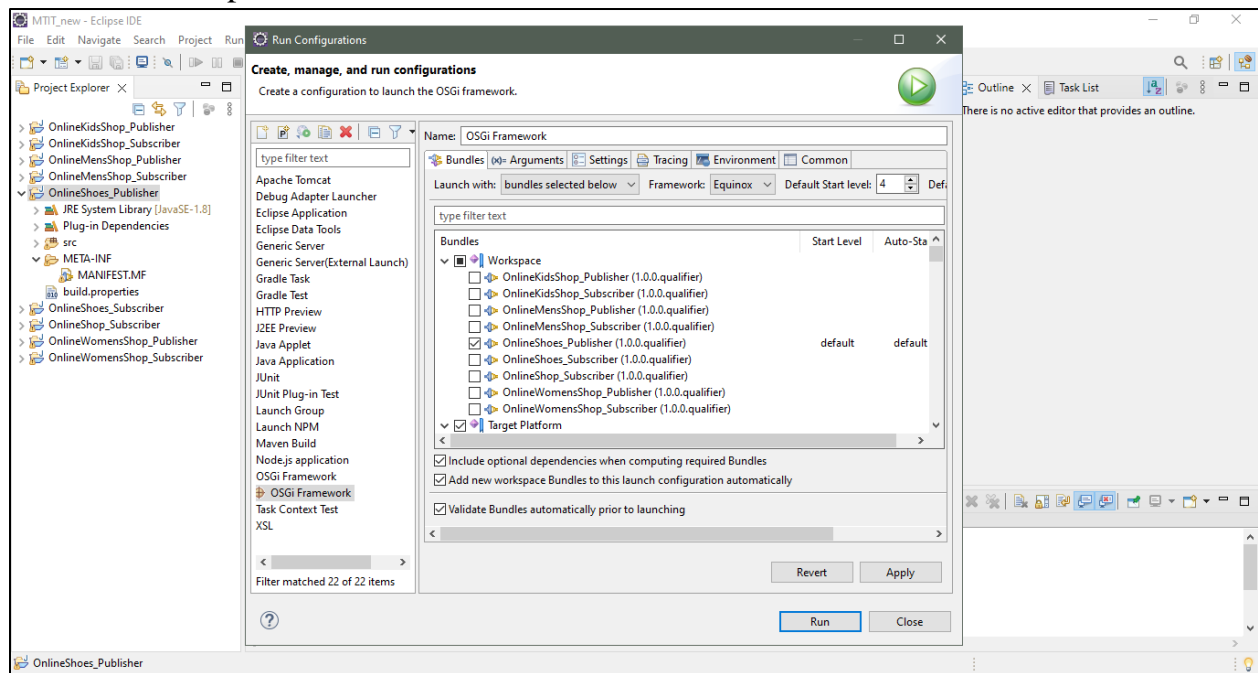


Figure 3.3: Online Shoes publisher bundle

Online Women's Shop publisher

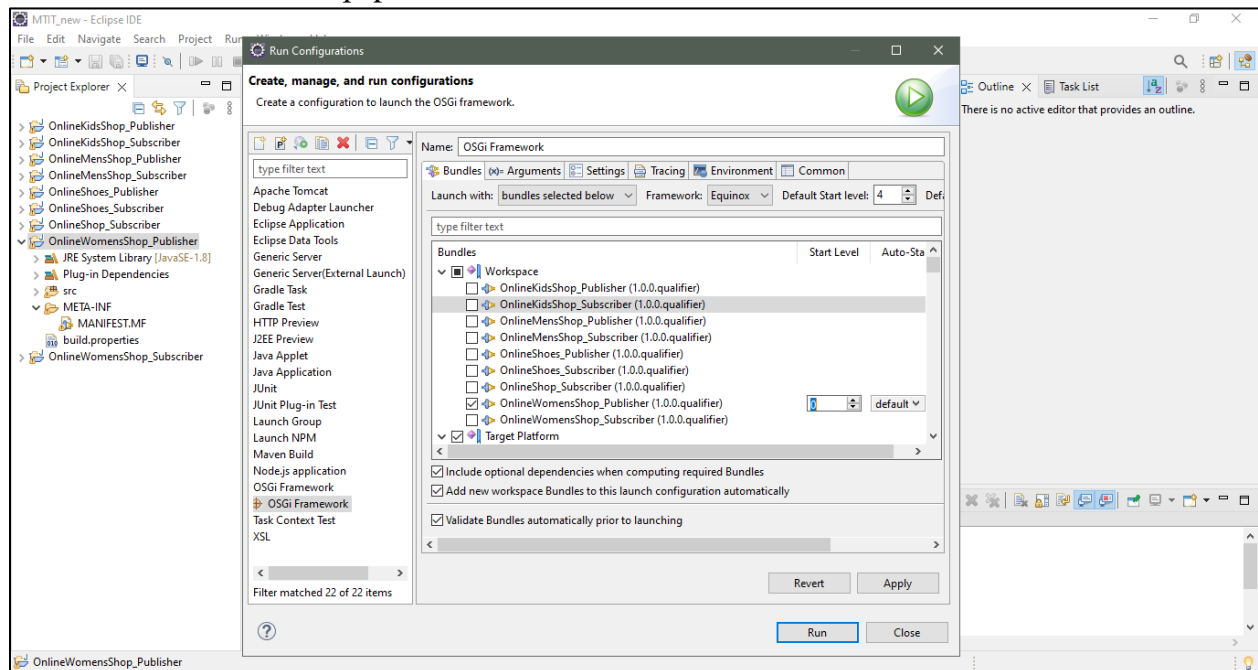


Figure 3.4: Online Women's Shop publisher bundle

Online Kids Shop Subscriber

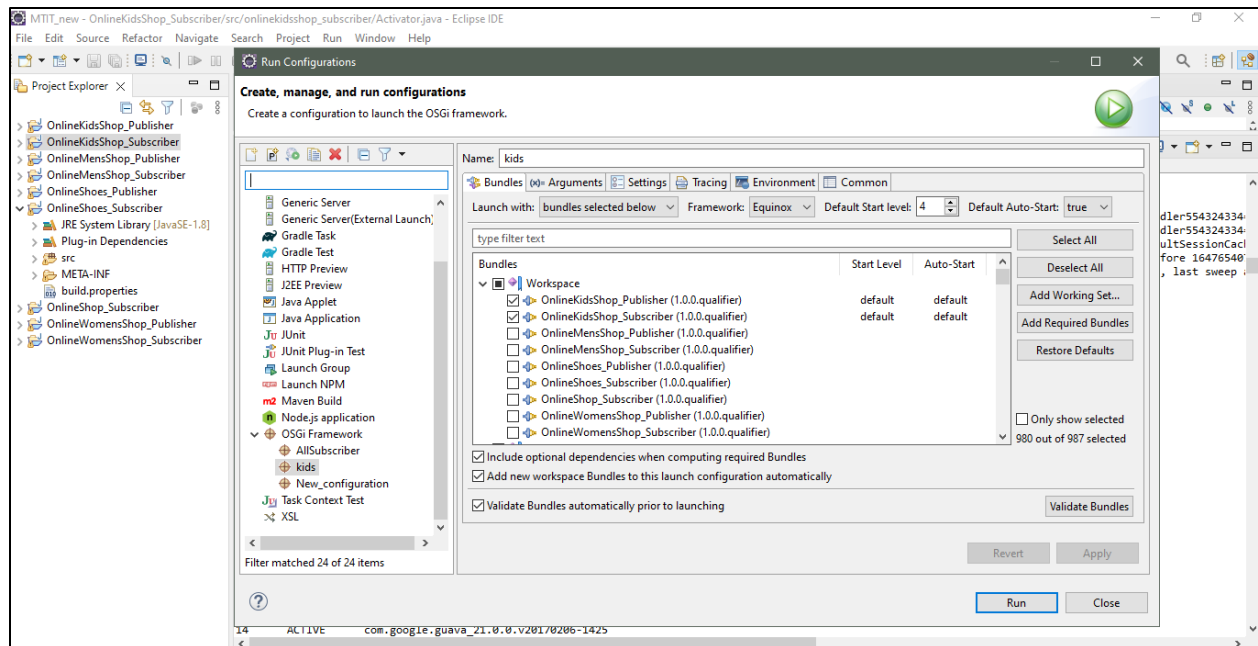


Figure 3.5: Online Kids Shop Subscriber bundles

Online Men Shop Subscriber

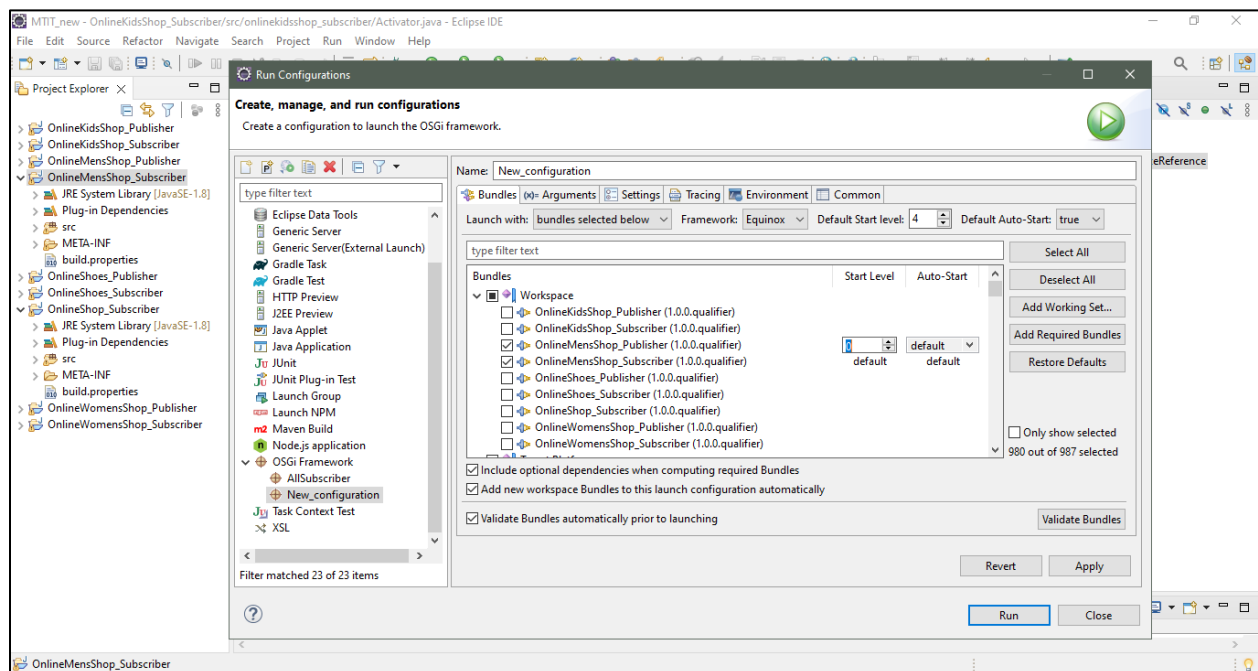


Figure 3.6: Online MenShop subscriber bundles

Online Shoes Subscriber

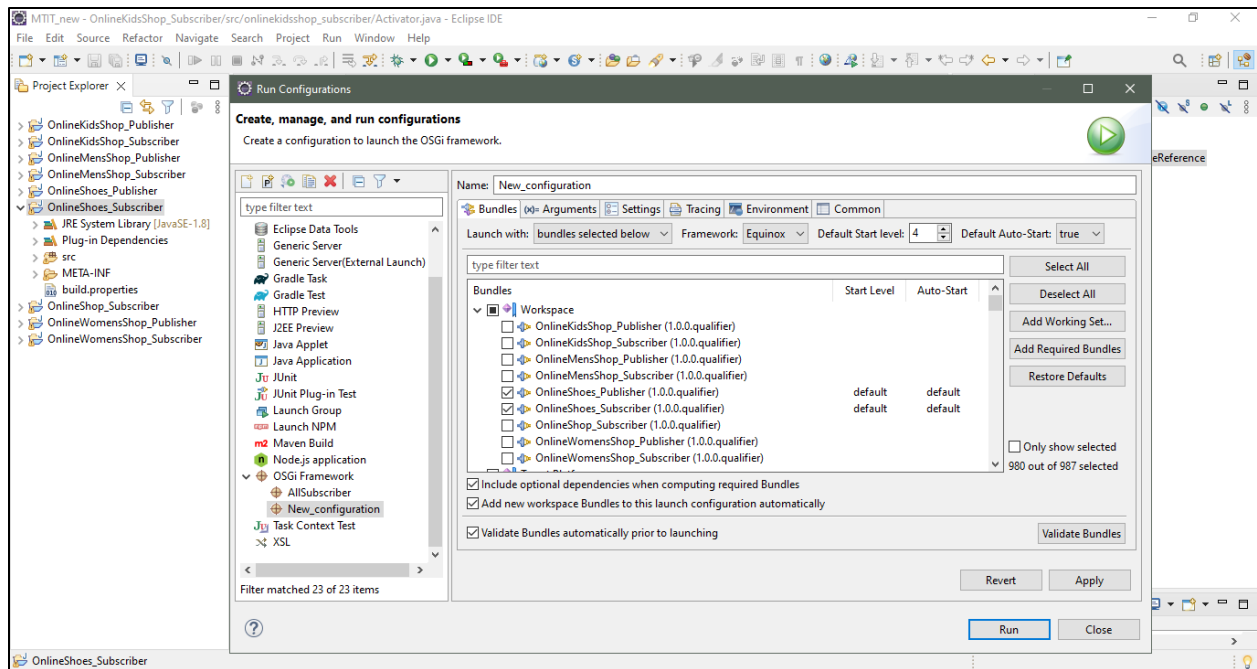


Figure 3.7: Online Shoes subscriber bundles

Online Women Shop Subscriber

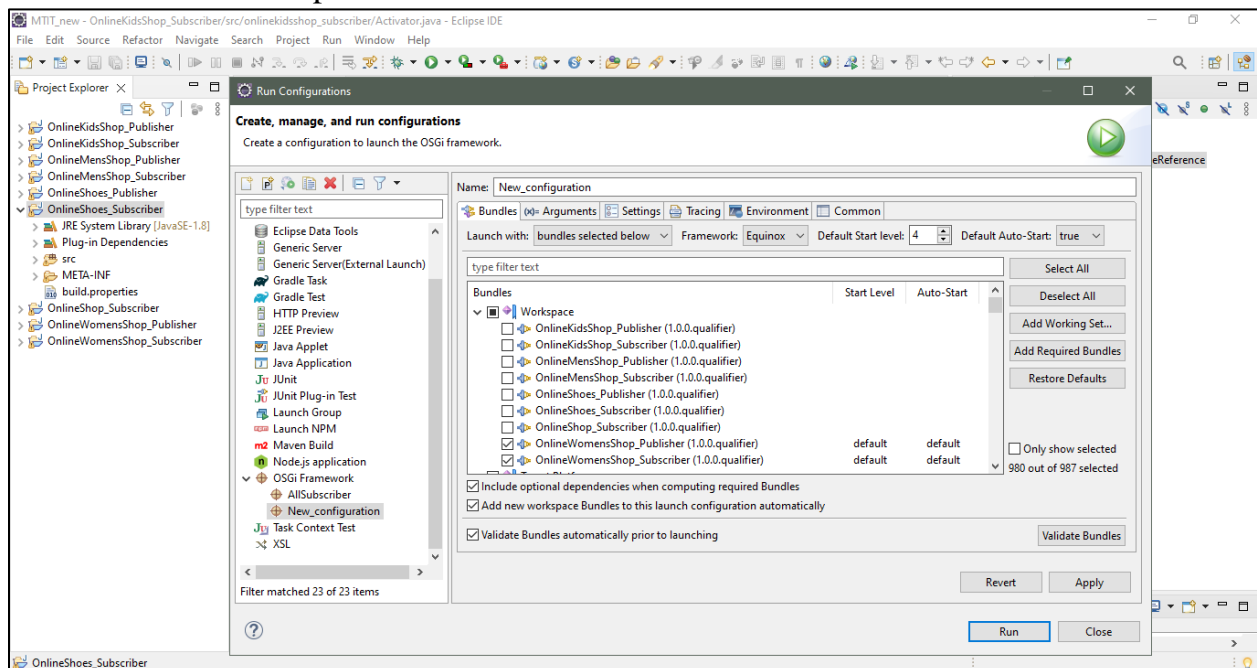


Figure 3.8: Online Women Shop subscriber bundles

Integrated - Online Shop Subscriber

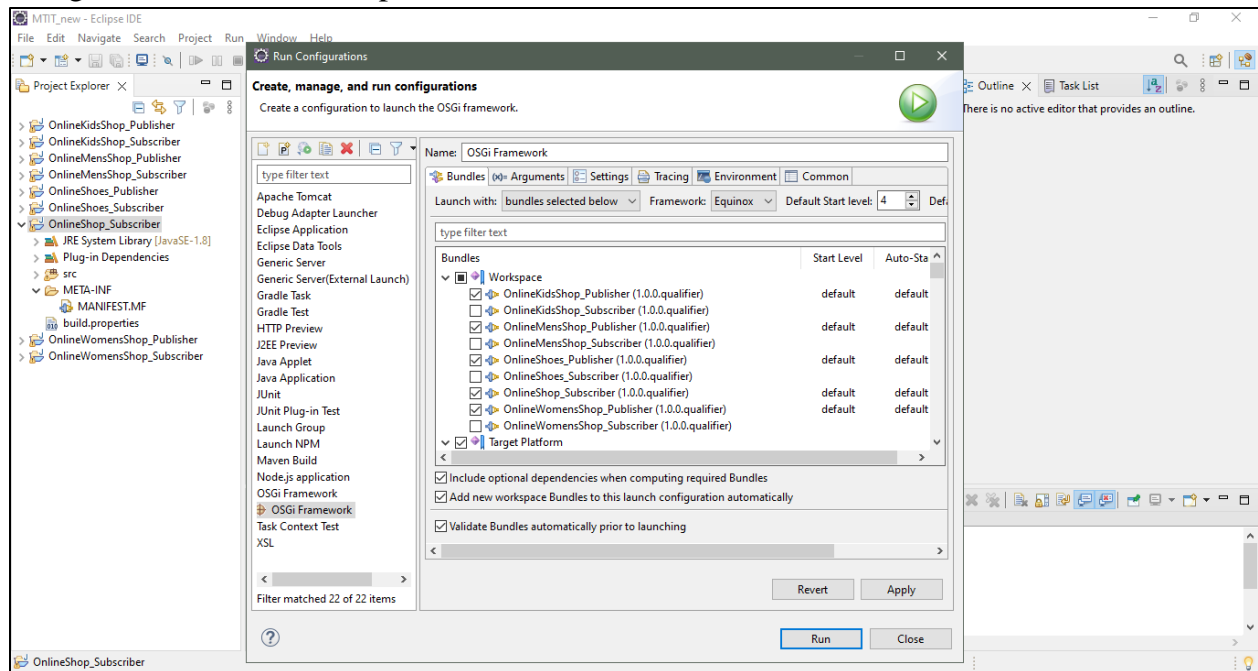


Figure 3.9: Online Shop subscriber bundles

4. Behavior and Outputs

Available bundles status

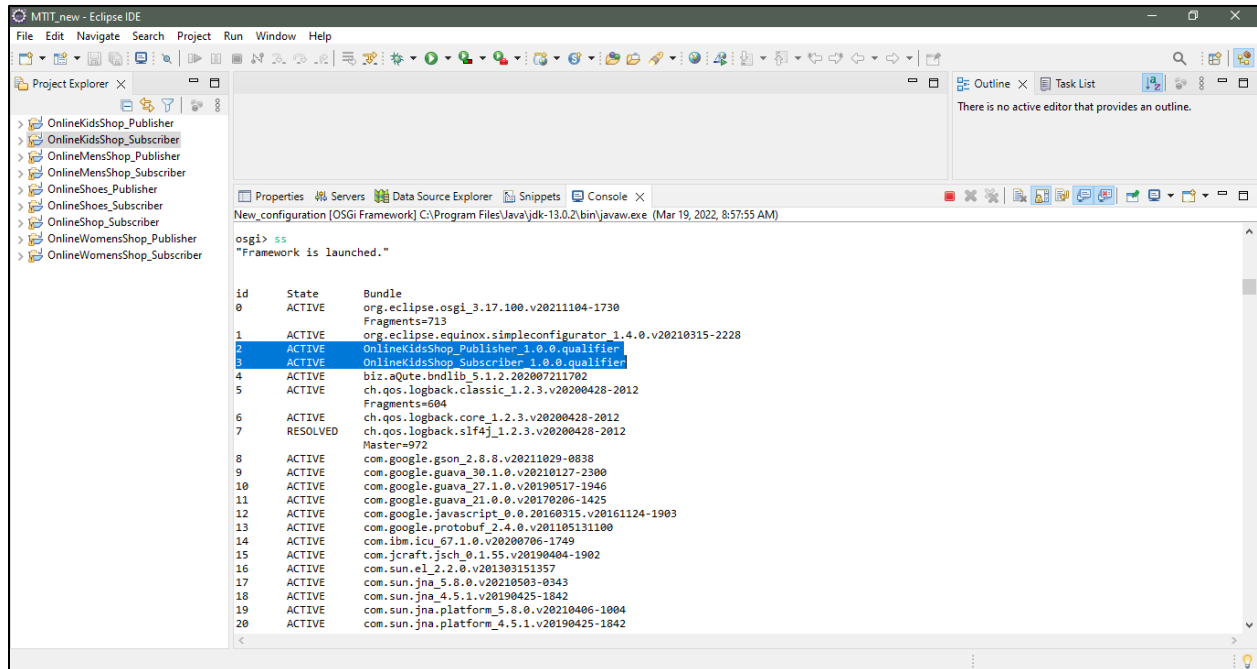


Figure 4.1: Available Kids Shop activated bundles

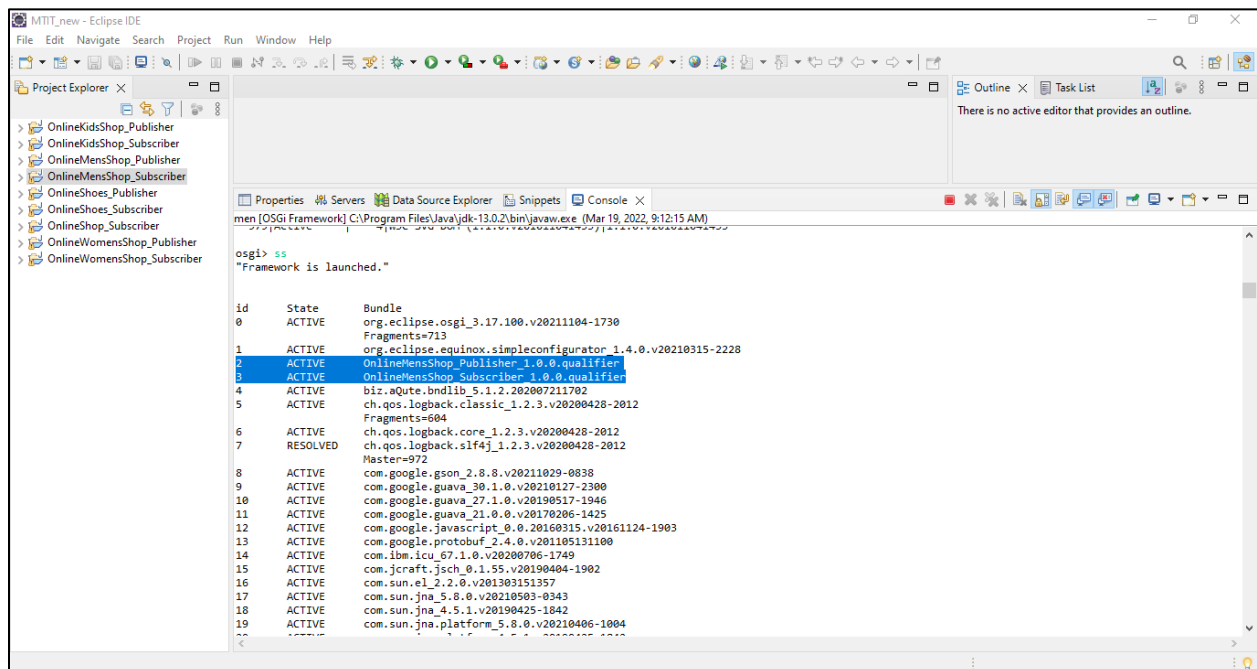


Figure 4.2: Available Men Shop activated bundles

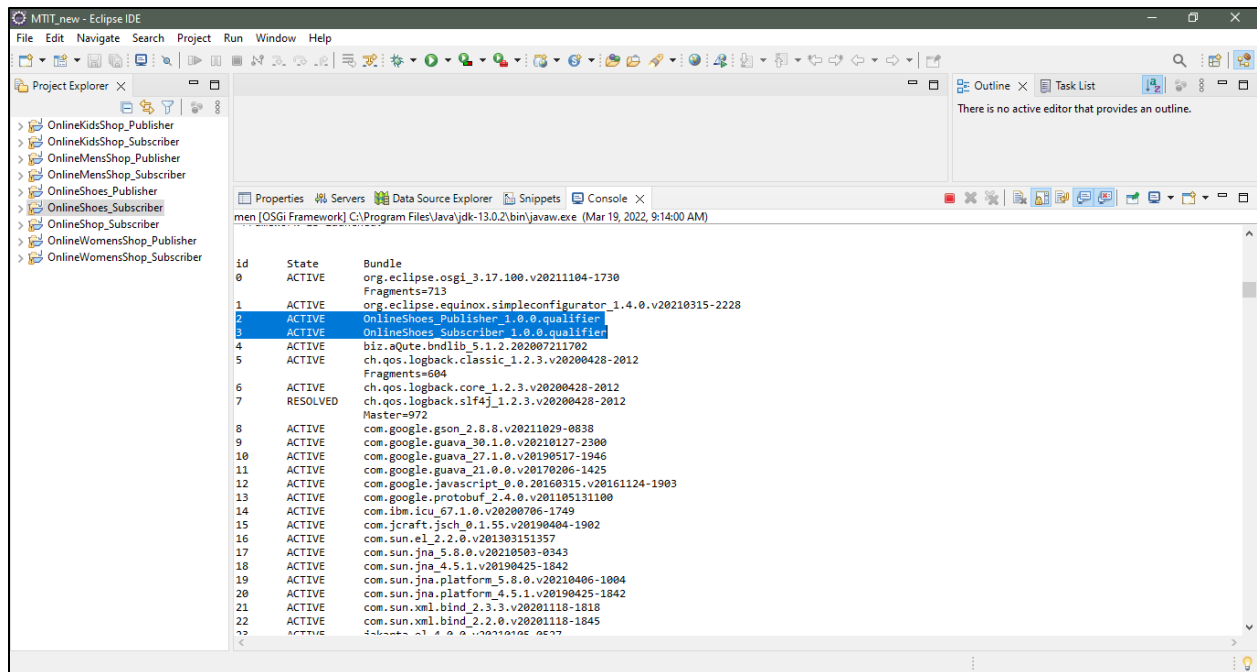


Figure 4.3: Available Shoe Shop activated bundles

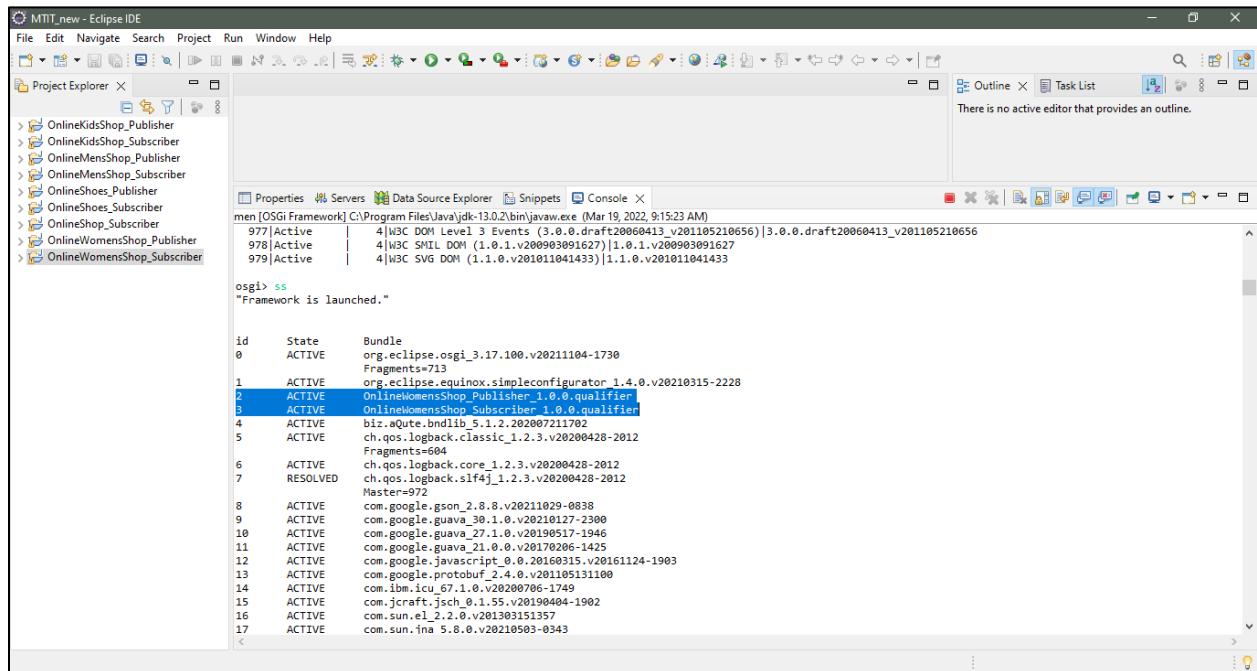


Figure 4.4: Available Women Shop activated bundles

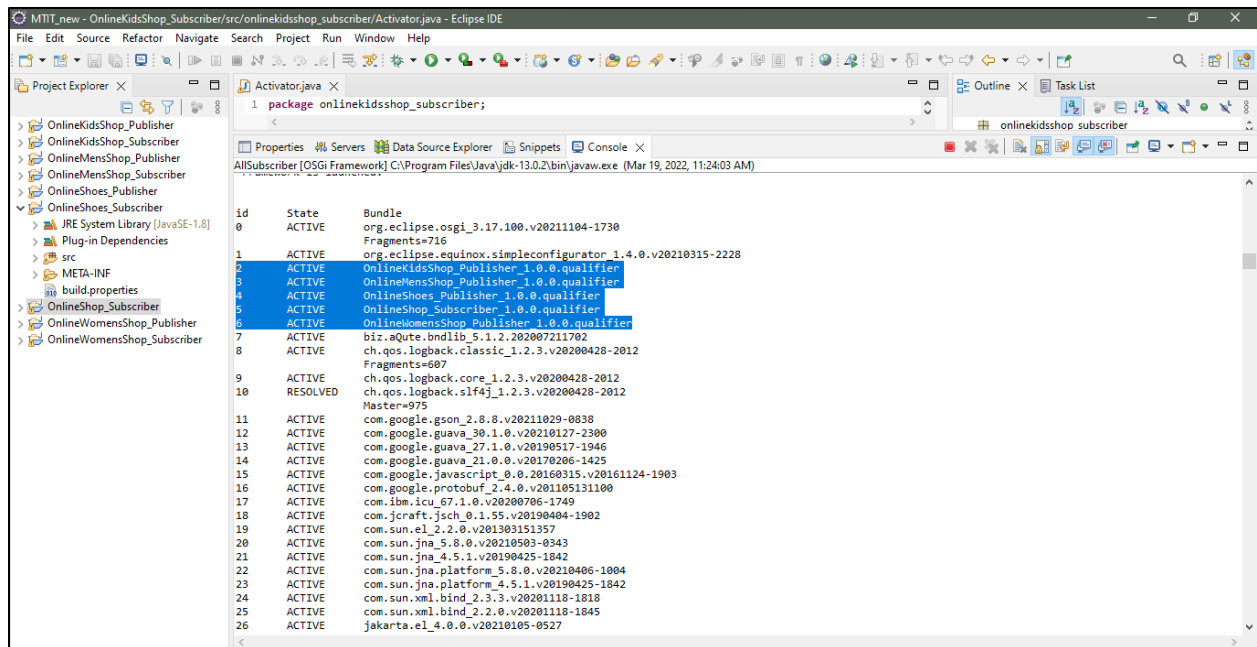


Figure 4.5: Integrated all active bundles status

Outputs

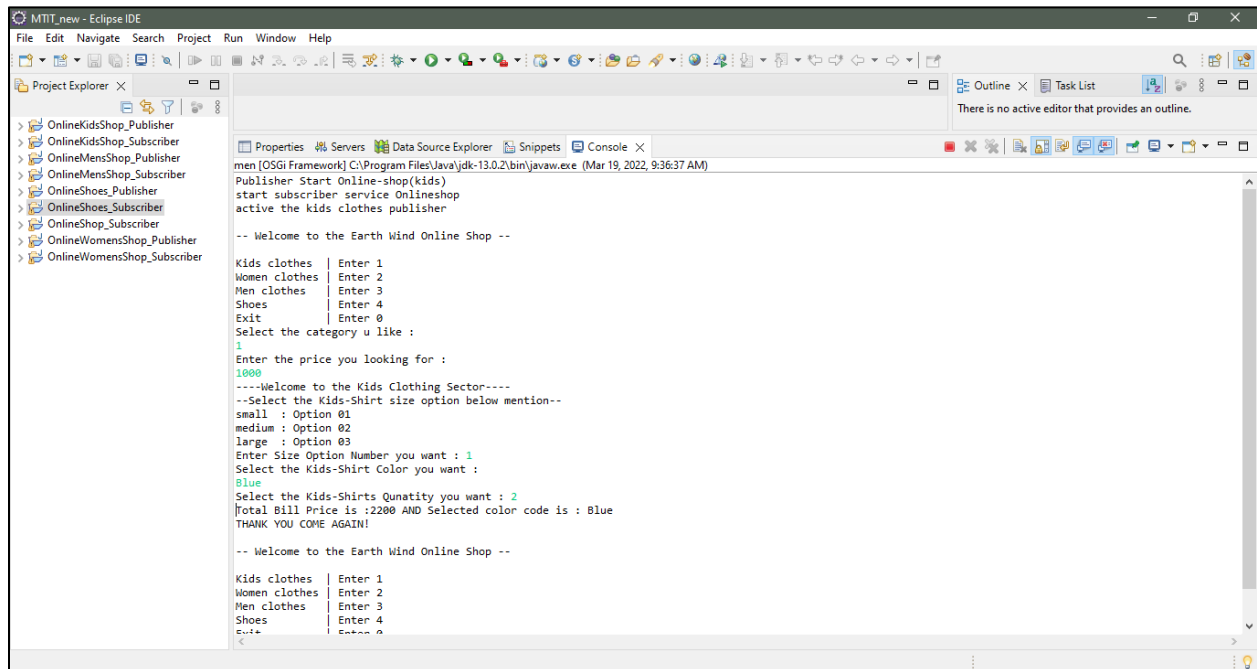


Figure 4.6: Output for kid clothes

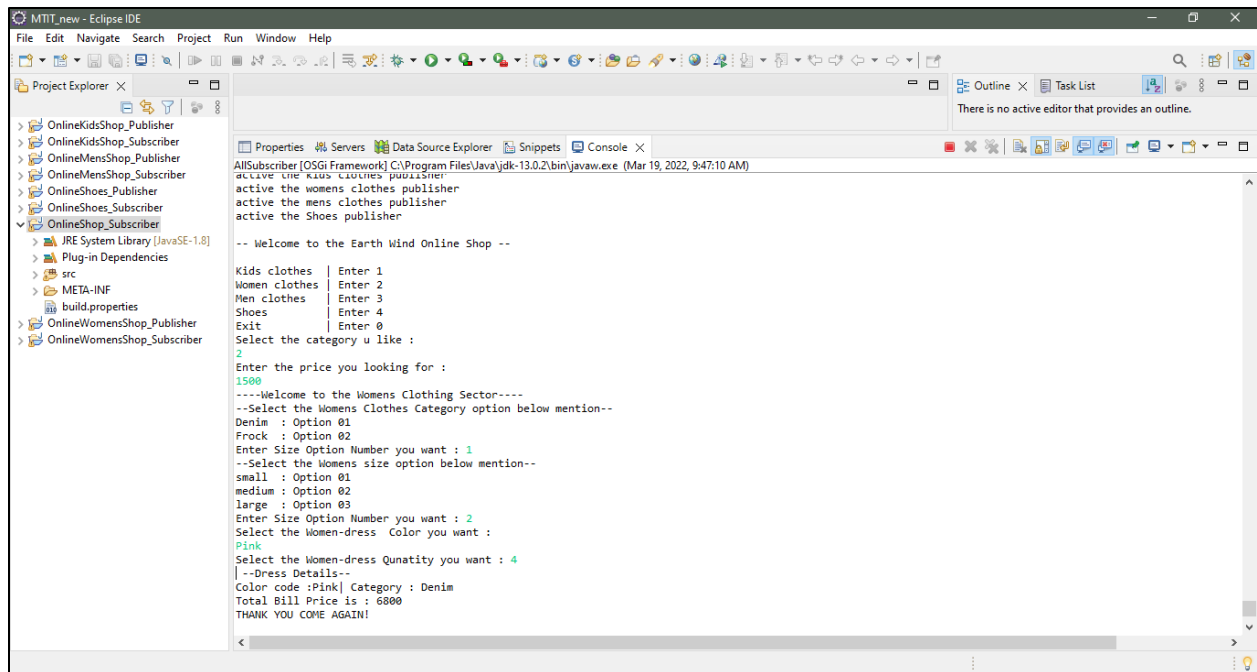


Figure 4.7: Output for women clothes

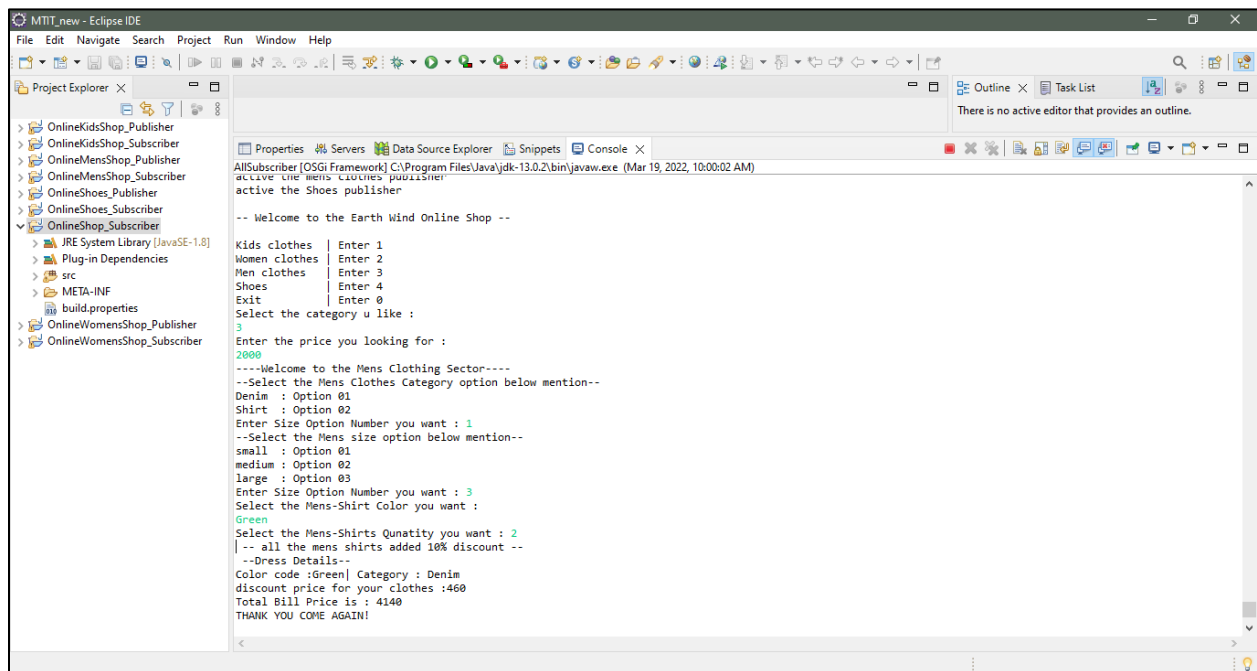


Figure 4.8: Output for men clothes

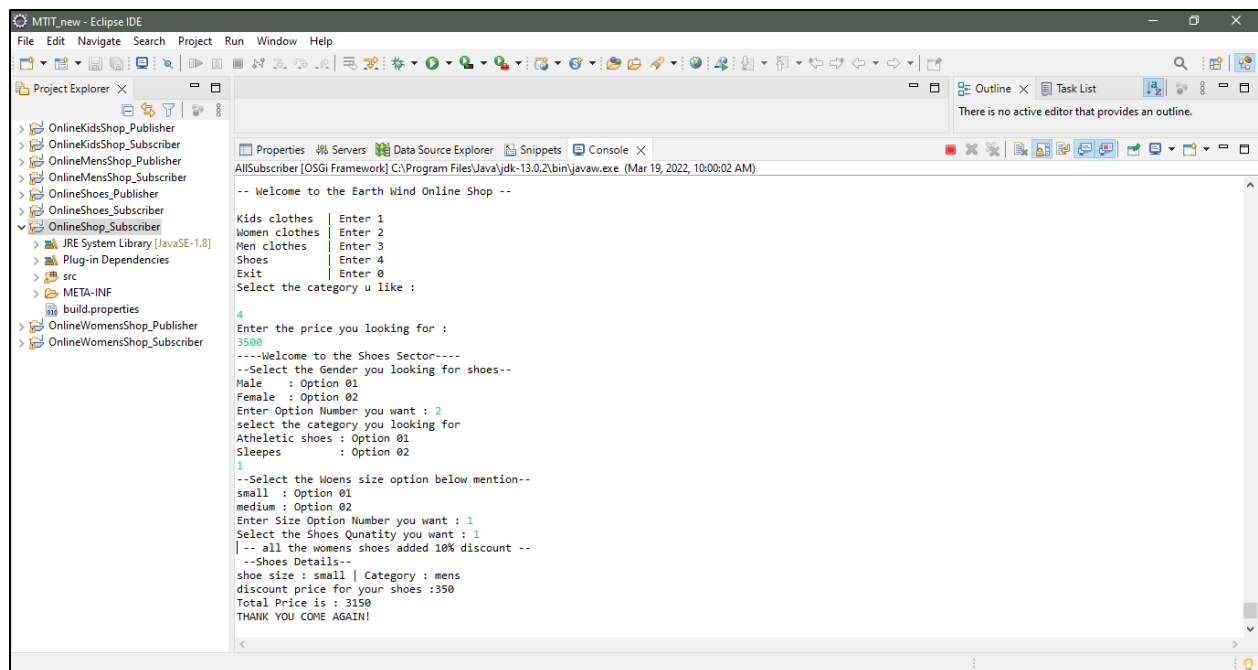


Figure 4.9: Output for shoes