

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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# System Diagram

Diagram

Description automatically generated

Figure 1.1: Overall System Diagram

# Manifest implementations

## Online Kids Shop publisher (Producer/Service)

Graphical user interface, text, application

Description automatically generated

Figure 2.1: Online Kids Shop publisher Manifest.mf file

## Online Men Shop publisher (Producer/Service)

Graphical user interface, text, application

Description automatically generated

Figure 2.2: Online Men Shop publisher Manifest.mf file

## Online Shoes publisher (Producer/Service)

Graphical user interface, text, application

Description automatically generated

Figure 2.3: Online Shoes publisher Manifest.mf file

## Online Women’s Shop publisher (Producer/Service)

Graphical user interface, text, application

Description automatically generated

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

## Kids Shop subscriber (Consumer/Subscriber)

Graphical user interface, text, application

Description automatically generated

Figure 2.5: Online kids Shop subscriber Manifest.mf file

## Men Shop subscriber (Consumer/Subscriber)

Graphical user interface, text, application

Description automatically generated

Figure 2.6: Online Men Shop subscriber Manifest.mf file

## Online shoes subscriber (Consumer/Subscriber)

Graphical user interface, text, application

Description automatically generated

Figure 2.7: Online shoes Subscriber Manifest.mf file

## Online Women shop subscriber (Consumer/Subscriber)

Graphical user interface, text, application

Description automatically generated

Figure 2.8: Online shoes subscriber Manifest.mf file

## Integrated - Online shop subscriber (Consumer/Subscriber)

Graphical user interface, text, application

Description automatically generated

Figure 2.9: Online Shop subscriber Manifest.mf file

# Bundles

## Online Kids Shop publisher

## Graphical user interface, text, application Description automatically generated

Figure 3.1 : Online Kids Shop publisher bundle

## Online Men Shop publisher

Graphical user interface, application

Description automatically generated

Figure 3.2: Online Men Shop publisher bundle

## Online Shoes publisher

Graphical user interface, application

Description automatically generated

Figure 3.3: Online Shoes publisher bundle

## Online Women’s Shop publisher

Graphical user interface, application

Description automatically generated

Figure 3.4: Online Women’s Shop publisher bundle

## Online Kids Shop Subscriber

A screenshot of a computer

Description automatically generated

Figure 3.5: Online Kids Shop Subscriber bundles

## Online Men Shop Subscriber

Graphical user interface, text, application, email

Description automatically generated

Figure 3.6:Online MenShop subscriber bundles

## Online Shoes Subscriber

Graphical user interface, text, application

Description automatically generated

Figure 3.7: Online Shoes subscriber bundles

## Online Women Shop Subscriber

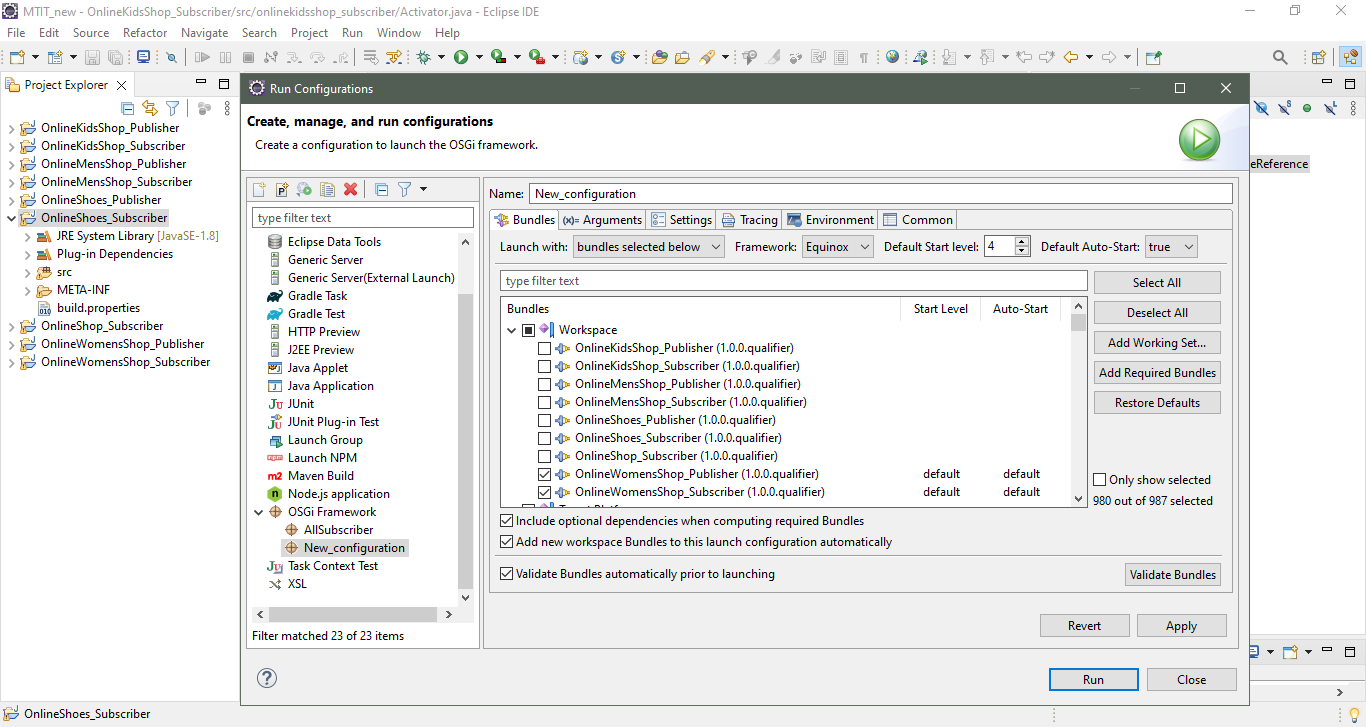


Figure 3.8: Online Women Shop subscriber bundles

## Integrated - Online Shop Subscriber

Graphical user interface, application

Description automatically generated

Figure 3.9: Online Shop subscriber bundles

# Behavior and Outputs

## Available bundles status

Graphical user interface, text, application, email

Description automatically generated

Figure 4.1: Available Kids Shop activated bundles

Graphical user interface, text, application

Description automatically generated

Figure 4.2: Available Men Shop activated bundles

Graphical user interface, text, application, email

Description automatically generated

Figure 4.3: Available Shoe Shop activated bundles

Graphical user interface, text, application

Description automatically generated

Figure 4.4: Available Women Shop activated bundles

Graphical user interface, text, application, email

Description automatically generated

Figure 4.5: Integrated all active bundles status

## Outputs

Graphical user interface, text, application, email

Description automatically generated

Figure 4.6: Output for kid clothes

Graphical user interface, text, application, email

Description automatically generated

Figure 4.7: Output for women clothes

Graphical user interface, text, email

Description automatically generated

Figure 4.8: Output for men clothes

Graphical user interface, text, application, email

Description automatically generated

Figure 4.9: Output for shoes