**A screenshot of a computer

Description automatically generated**

**User Interface Screen**

**A screenshot of a computer

Description automatically generated**

**Customer Registration Form**

**Graphical user interface, text, application, email

Description automatically generated**

**Customer Login form**

**Graphical user interface, website

Description automatically generated**

**View products and Add to Cart**

**Graphical user interface, text, application

Description automatically generatedAdmin approval page**

**Graphical user interface, text, application, Word

Description automatically generated**

**Assigned Customer**

**Graphical user interface, text, application

Description automatically generated**

**Figure 4. 17b . My order list**

**Graphical user interface, text, application

Description automatically generated**

**Account detail of a customer.**

**Graphical user interface, text, application, Word

Description automatically generated**

**Payment Details**

**Graphical user interface, text, application

Description automatically generated**

Output Screen Displaying the Customer Details from the Database. Click At Make Payment

**The Pseudocode for the OSMARS operation**

Begin ( )

Display log in page\_ HEA

Define Assigned Admin

Define SuperAdmin

Accept inputs

If registered user then

Display OSMARS Interface

Accept inputs

Process to check if Customer is Logged ON

If Customer Logged ON then

Customer Logged ON

Processes/Submits the Items Details to be approved by Assigned Admin

Process to Check if Submitted items is Approved

Is payment details correct?

Process Payment and Approve Items Supplied

If approved then process payment interface

End if

End if

Else go to Begin

End if

Else NOP

End if

**OSMARS Flowcharts**

Process & load OSMARs Interface

Process to Check if Customer is Logged ON

Is Customer Logged ON?

Loads the Login Page & Logs Customer ON

Processes/Submits the Items Details to be approved by Assigned Admin

A

N

Y

Have you Registered

NO

Register

YES

B

Process to Check if Submitted items is Approved

Confirm Approval Ok?

Process & load OSMARs Payment Interface

Accepts Payment Details as Input

Is Payment details Correct?

Payment and Logout

Display invalid Payment Details

A

N

B

YES

N

OSMARS Flowchart

**ECTS Server Arrangement**

Customers at different location

Switches/ports

Customers at different location

Joint density function

E-commerce Backup server

E-commerce firewall

Load balancer

OSMARS Application

Cloud server

Cloud server

Cloud server