



DBMS-Report

GERBER

Group 14

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Our Team



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Our Team



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Project Introduction

Sector: Clothing

We decided to get into the **clothing** business, offering products with a slightly higher than average price ('expensive products').

In fact, with the advent of **e-commerce**, millions of people are choosing to buy clothes online, and this is a trend that has been growing since the outbreak of the Covid-19 pandemic.

Clothing items with a high average price have **increased by more than 90% globally**. The aim is to join this context of virtuous growth.

Our project involves creating a **website** for three physical clothing stores.



Project Introduction/2

The main difference from the online stores we are used to seeing nowadays is that the **customer can choose and book online the clothes** he/she wants to try on or buy, **and then go to the corresponding physical shop, and eventually paying them in an offline mode.**

Major Insights

Tracking customers' preferences → Ensuring an efficient and innovative service from a managerial point of view, keeping track of information on individual consumer preferences.

Offer an alternative while minimising the margin of error in choice → Buying clothes online does not always meet customer's wishes (e.g, size or product itself). We would give to the customer what they really want, eliminating the possibility of mistakes and making customer experience perfect.

Preliminary data analysis → Our development process does not involve the collection of data through interviews or surveys. Then, we have collected data from the numerous available online reports regarding this positive trend.

Project Motivation

Why we choose this option?

Service Differentiation: The service we offer is not very present on the market and very client-oriented.

Digitalization of Fashion Industry: At the moment, the fashion industry is one of those most moving towards an all-encompassing digital transformation.

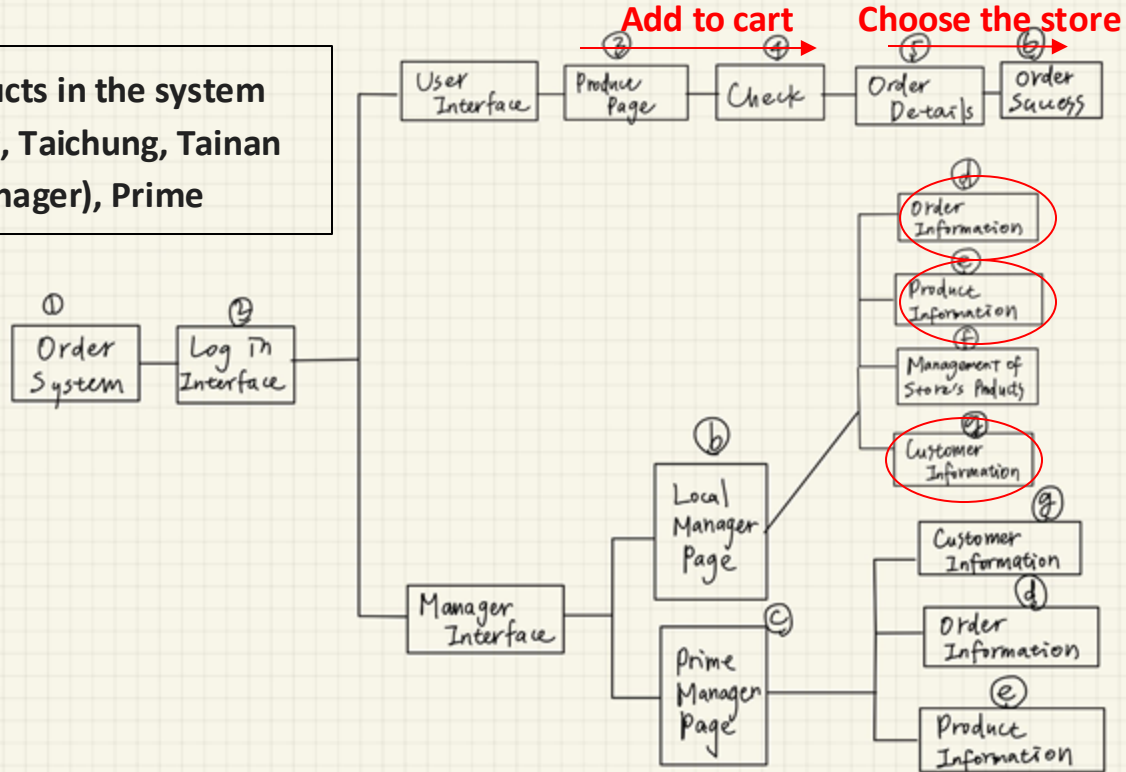
Improving Customer Experience: An appropriate digital tool can help to bridge the gap between customer expectations and the service and experience they receive.

#BOOKONLINEANDPAYOFFLINE

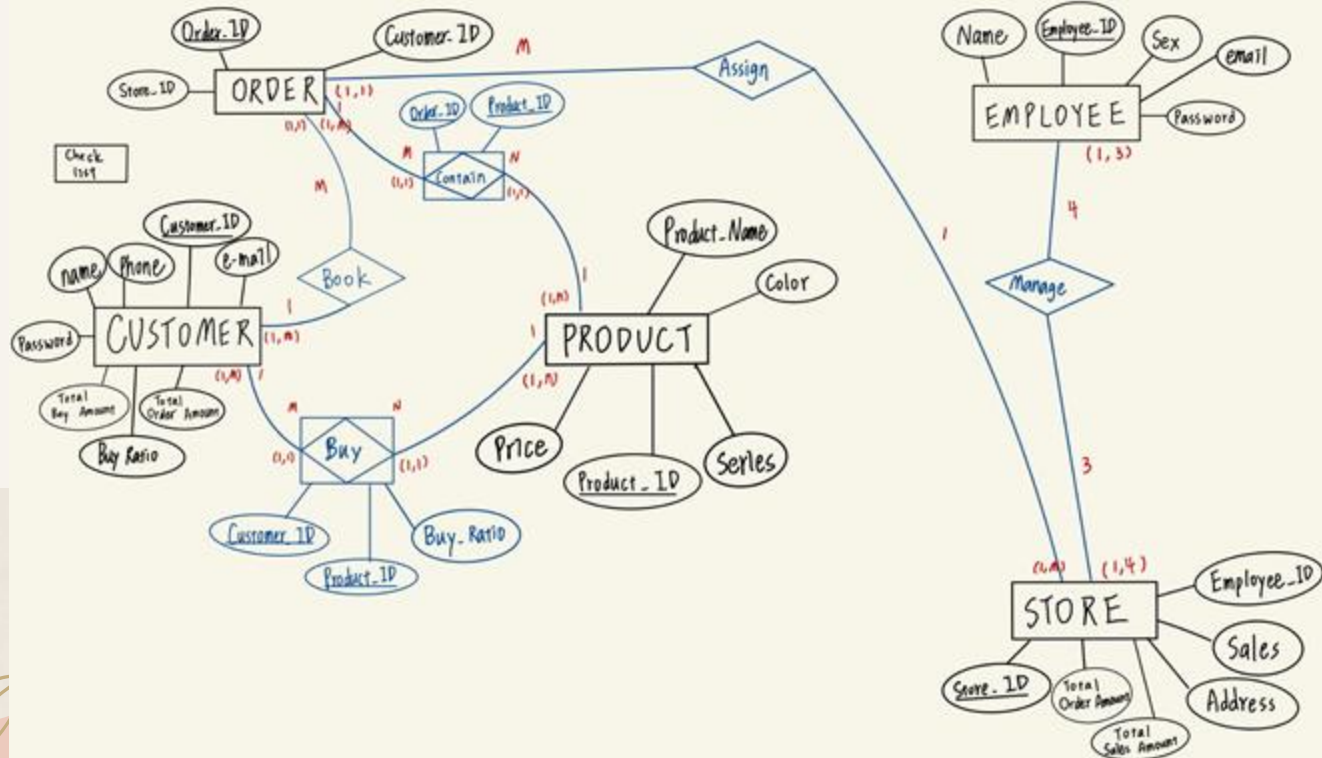


System Function Decomposition Chart

- * Customers can only order products in the system
- * We have 3 branch stores: Taipei, Taichung, Tainan
- * User: Customer, Clerk (local manager), Prime manager

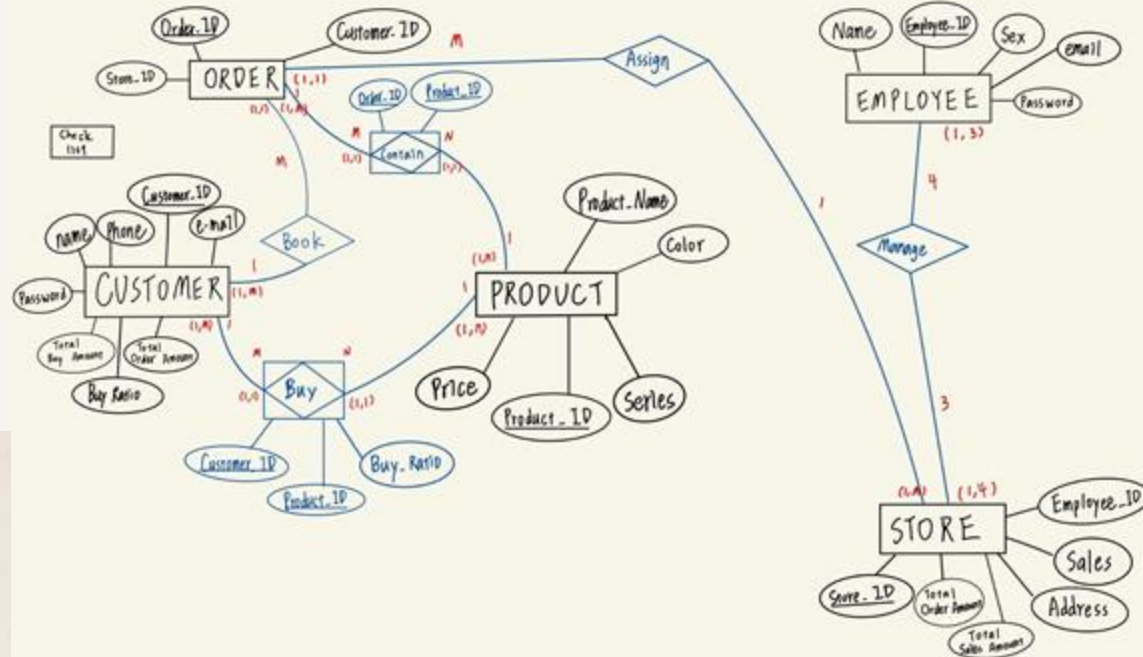


ER Model



ER Model --Cardinality Constraints

- Each employee manage at least one store at must three stores
- One customer can book many orders
- Many customers can buy many products
- Many orders can contain many products
- Many orders can be assigns to one store



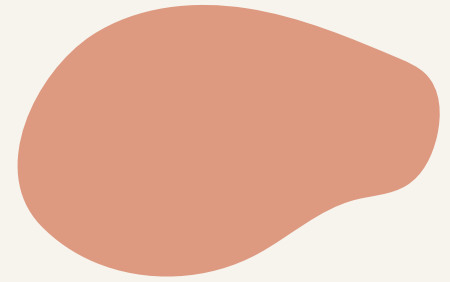
Project t Demo



Database Demo



Conclusion –What do we solve?



Order

Provide convenient
order cart



Connection

Connect real stores
with online customers



Management

The system can reflect
the sales immediately



Future Goals



Present more products on the home page

Promote our products



Knowing which the popular products are

Find out current fashion trends



Present various data in charts, diagrams

Easier for managers to make business decisions



Thank!



System Coding



Our employee

ID	Name	Sex	Email	Password	identity
304001	Gerber	M	304001@nccu.edu.tw	a01	Prime manager
304002	Cindy	F	304002@nccu.edu.tw	a02	Local manager
304003	Kitty	F	304003@nccu.edu.tw	a03	Local manager
304004	Jennifer	F	304004@nccu.edu.tw	a04	Local manager



Register Class: LoginPanel

```
JButton signButton = new JButton("Sign up");
signButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String registerEmail = RegisterEmailTextField.getText();
        String registerPassword = RegisterPasswordTextField.getText();
        String registerName = RegisterNameTextField.getText();
        String registerPhone = RegisterPhoneTextField.getText();

        if (registerEmail!=null && registerPassword!=null && registerName!=null && registerPhone!=null) {
            if(userManagement.findUserEmailPass(registerEmail,registerPassword)==null) {

                String query = "SELECT * FROM customer ORDER BY customer_id DESC LIMIT 1";
                Connect con = new Connect();
                con.connect(query);
                Object[][] data = con.getData();
                userIDcount = ((Integer)data[0][0]) + 1;
                System.out.println(userIDcount);
                userManagement.addNewUserToDB(userIDcount, registerEmail, registerPhone, registerName, registerPassword);

                RegisterEmailTextField.setText("");
                RegisterPasswordTextField.setText("");
                RegisterNameTextField.setText("");
                RegisterPhoneTextField.setText("");
                JOptionPane.showMessageDialog(frame,"Register successfully, Please login again!");
            }
            else {
                JOptionPane.showMessageDialog(frame,"Email and password has already exists!");
            }
        }
        else {
            JOptionPane.showMessageDialog(frame,"You fill out the information incomplete!");
        }
    }
});
signButton.setBounds(64, 200, 185, 37);
Registerpanel.add(signButton);
```

Register

e-mail :

password :

name :

phone :

Sign up

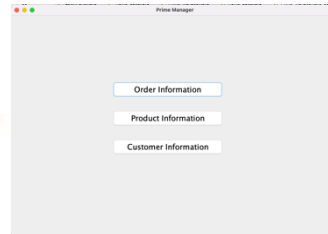
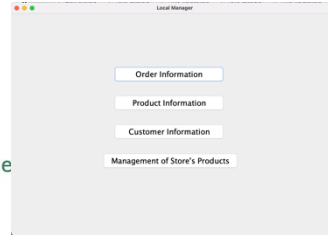
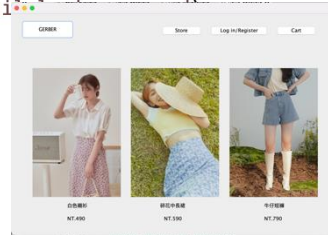


Login Class: LoginPanel

```

JButton LoginButton = new JButton("Login");
LoginButton.setBounds(56, 199, 185, 37);
Loginpanel.add(LoginButton);
LoginButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String loginEmail = LoginEmailTextField.getText();
        String loginpassword = LoginpasswordtextField.getText();
        if (loginEmail!=null && loginpassword!=null) {
            User userNow = userManagement.findUserEmailPass(loginEmail);
            if(userNow != null) {
                LoginEmailTextField.setText("");
                LoginpasswordtextField.setText("");
                if (userNow.getID()>304004) { //User
                    state = 1;
                    frame.dispose();
                    Home_page hp = new Home_page(state);
                    hp.setVisible(true);
                    SeriesManagement.serie.clear();
                    userManagement.addNewUserToAL(userNow);
                    userIDcurrent = userNow.getID();
                }else if(userNow.getID()>304001) { //Local Manager
                    state = 3;
                    frame.dispose();
                    Local_manager lm = new Local_manager(state);
                    lm.setVisible(true);
                    ManagerID = userNow.getID();
                }else if(userNow.getID() == 304001) { //Prime Manager
                    state = 2;
                    frame.dispose();
                    Prime_Manager pm = new Prime_Manager(state);
                    pm.setVisible(true);
                    ManagerID = userNow.getID();
                }
            }
            JOptionPane.showMessageDialog(frame,"your account do firstly.");
        }
    }
});

```



Login

e-mail :

password :

Login



How to identify identity ? “state”

state =	mode
1	User login
2	Prime manager login
3	Local manager login
4	Log out



state = null Class: Home_page

```
public class Home_page extends JFrame{

    private JPanel home;
    private static int state;
    public static String productName;
    public static String seriesName;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Home_page frame = new Home_page(state);
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    public Home_page(int state) {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 850, 608);
        setTitle("Home Page");
        home = new JPanel();
        this.state = state;
    }
}
```



state = 4 (Log out) Class: LoginPanel

- 1 (User login)
- 2 (Prime manager login)
- 3 (Local manager login)

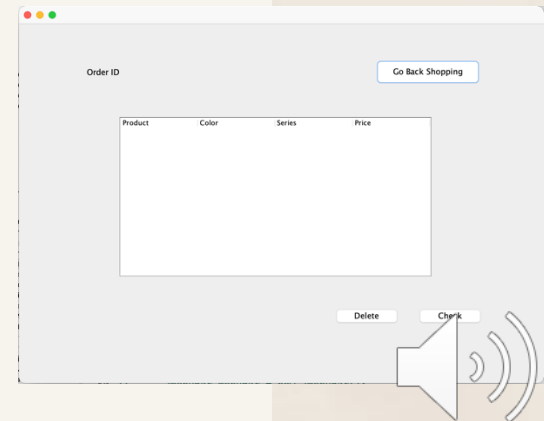
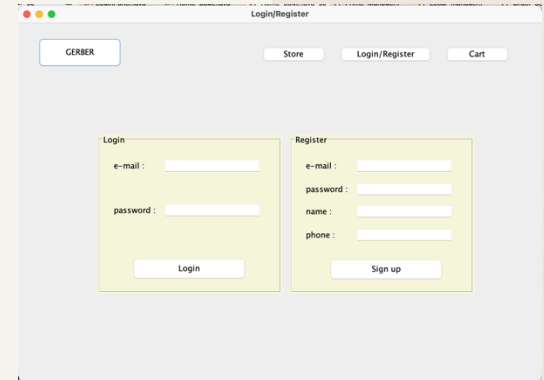
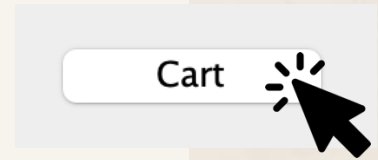
```
public LoginPanel(int stat) {  
    initialize();  
  
    if(stat!=1 && stat!=2 && stat!=3) {  
        state = 4;  
    }  
}
```

```
if (userNow.getID()>304004) { //User  
    state = 1;  
    frame.dispose();  
    Home_page hp = new Home_page(state);  
    hp.setVisible(true);  
    SeriesManagement.serie.clear();  
    userManagement.addNewUserToAL(userNow);  
    userIDcurrent = userNow.getID();  
}else if(userNow.getID()>304001) { //Local Manager  
    state = 3;  
    frame.dispose();  
    Local_manager lm = new Local_manager(state);  
    lm.setVisible(true);  
    ManagerID = userNow.getID();  
}else if(userNow.getID() == 304001) { //Prime Manager  
    state = 2;  
    frame.dispose();  
    Prime_Manager pm = new Prime_Manager(state);  
    pm.setVisible(true);  
    ManagerID = userNow.getID();  
}
```



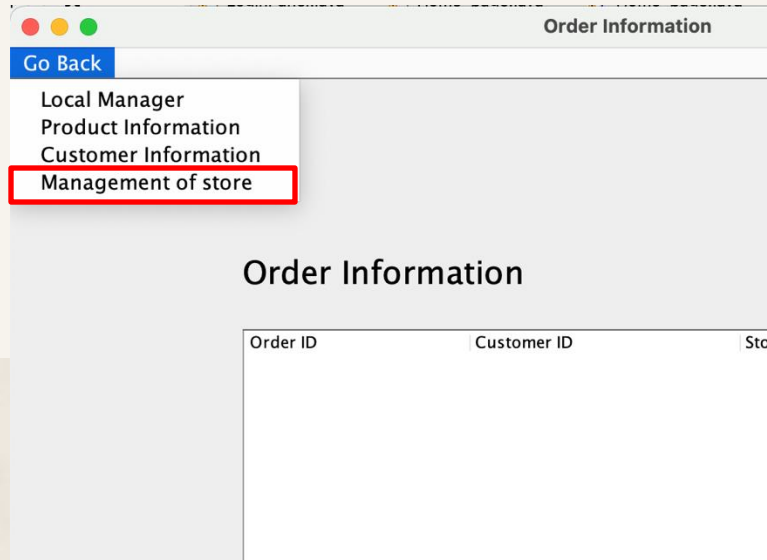
state = 1 (User login) Class: Home_page

```
 JButton btnNewButton_1_2 = new JButton("Cart");  
 btnNewButton_1_2.addActionListener(new ActionListener() {  
     public void actionPerformed(ActionEvent e) {  
         if (state!=1) {  
             setVisible(false);  
             LoginPanel lp = new LoginPanel(state);  
             lp.main(null);  
         }else {  
             setVisible(false);  
             CheckingCart cc = new CheckingCart();  
             cc.setVisible(true);  
         }  
     }  
 });  
 btnNewButton_1_2.setBounds(684, 30, 111, 31);  
 home.add(btnNewButton_1_2);
```

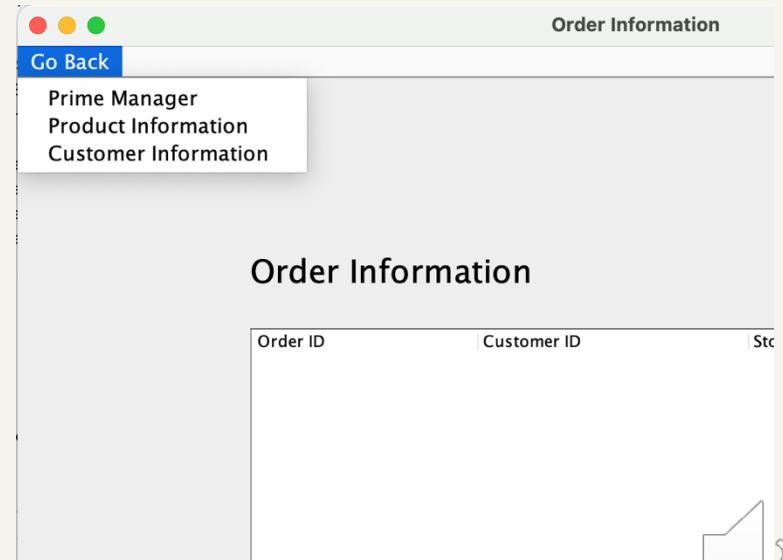


Class: Order_info

state = 3 (Local manager login)



state = 2 (Prime manager login)



Only if Local manager login, "Management of store" in the menubar can be viewed

Class: Order_info

state = 3 (Local manager login)

```
JMenuItem mntmNewMenuItem_1_2_1 = new JMenuItem("Management of store");  
mntmNewMenuItem_1_2_1.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        setVisible(false);  
        Management_SP oi = new Management_SP(state);  
        oi.setVisible(true);  
    }  
});  
mnNewMenu.add(mntmNewMenuItem_1_2_1);  
mntmNewMenuItem_1_2_1.setVisible(false);  
if(state == 3) {  
    mntmNewMenuItem_1_2_1.setVisible(true);  
}
```

