

```
1 <Window x:Class="_2024_WpfApp3.MainWindow"
2     xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
3     xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
4     xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
5     xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
6     xmlns:local="clr-namespace:_2024_WpfApp3"
7     mc:Ignorable="d"
8     Title="飲料點餐系統ver3" Height="620" Width="715">
9     <Grid>
10         <StackPanel x:Name="stackpanel_DrinkMenu" Margin="20,65,0,0"
11             Background=#FFFFC5C5 Height="200" VerticalAlignment="Top"
12             HorizontalAlignment="Left" Width="529" />
13         <Button x:Name="OrderButton" Content="確定訂購" Margin="0,25,30,0"
14             VerticalAlignment="Top" Height="60" FontSize="18" FontWeight="Bold"
15             HorizontalAlignment="Right" Width="100" Click="OrderButton_Click"/>
16         <TextBlock x:Name="ResultTextBlock" Margin="20,0,30,20" TextWrapping="Wrap"
17             Background=#FF90A77A Height="283" VerticalAlignment="Bottom"
18             Padding="5,5,5,5" FontSize="16"/>
19         <GroupBox Header="內用/外帶" Margin="20,0,0,0" Background=#FF78A4A4
20             Height="52" VerticalAlignment="Top" HorizontalAlignment="Left"
21             Width="455">
22             <StackPanel Orientation="Horizontal" Height="30" Margin="0,0,-83,0">
23                 <RadioButton Content="內用" FontSize="16" FontWeight="Bold"
24                     Height="25" Width="80" Margin="10,0,0,0"
25                     VerticalAlignment="Center" VerticalContentAlignment="Center"
26                     Checked="RadioButton_Checked"/>
27                 <RadioButton Content="外帶" FontSize="16" FontWeight="Bold"
28                     Height="25" Width="80" Margin="10,0,0,0"
29                     VerticalAlignment="Center" VerticalContentAlignment="Center"
30                     Checked="RadioButton_Checked"/>
31             </StackPanel>
32         </GroupBox>
33     </Grid>
34 </Window>
```

```
1 using System.Windows;
2 using System.Windows.Controls;
3 using System.Windows.Data;
4 using System.Windows.Media;
5
6 namespace _2024_WpfApp3
7 {
8     /// <summary>
9     /// Interaction logic for MainWindow.xaml
10    /// </summary>
11    public partial class MainWindow : Window
12    {
13        Dictionary<string, int> drinks = new Dictionary<string, int>
14        {
15            { "紅茶大杯", 60 },
16            { "紅茶小杯", 40 },
17            { "綠茶大杯", 50 },
18            { "綠茶小杯", 30 },
19            { "可樂大杯", 50 },
20            { "可樂小杯", 30 },
21            { "咖啡大杯", 80 },
22            { "咖啡小杯", 50 }
23        };
24
25        Dictionary<string, int> orders = new Dictionary<string, int>();
26        string takeout = "";
27        public MainWindow()
28        {
29            InitializeComponent();
30
31            // 顯示飲料品項
32            DisplayDrinkMenu(drinks);
33        }
34
35        private void DisplayDrinkMenu(Dictionary<string, int> drinks)
36        {
37            //stackpanel_DrinkMenu.Children.Clear();
38            stackpanel_DrinkMenu.Height = 42 * drinks.Count;
39            foreach (var drink in drinks)
40            {
41                var sp = new StackPanel
42                {
43                    Orientation = Orientation.Horizontal,
44                    Margin = new Thickness(3),
45                    Background = Brushes.LightBlue,
46                    Height = 35,
47                };
48
49                var cb = new CheckBox
50                {
51                    Content = drink.Key,
52                    FontFamily = new FontFamily("微軟正黑體"),
53                    FontSize = 16,
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54         FontWeight = FontWeights.Bold,
55         Foreground = Brushes.Blue,
56         Width = 150,
57         Margin = new Thickness(5),
58         VerticalContentAlignment = VerticalAlignment.Center,
59     };
60
61     var lb_price = new Label
62     {
63         Content = $"{drink.Value}元",
64         FontFamily = new FontFamily("微軟正黑體"),
65         FontSize = 16,
66         FontWeight = FontWeights.Bold,
67         Foreground = Brushes.Green,
68         Width = 60,
69         VerticalContentAlignment = VerticalAlignment.Center,
70     };
71
72     var sl = new Slider
73     {
74         Width = 150,
75         Minimum = 0,
76         Maximum = 10,
77         Value = 0,
78         Margin = new Thickness(5),
79         VerticalAlignment = VerticalAlignment.Center,
80         IsSnapToTickEnabled = true,
81     };
82
83     var lb_amount = new Label
84     {
85         Content = "0",
86         FontFamily = new FontFamily("微軟正黑體"),
87         FontSize = 16,
88         FontWeight = FontWeights.Bold,
89         Foreground = Brushes.Red,
90         VerticalContentAlignment = VerticalAlignment.Center,
91         Width = 50,
92     };
93
94     Binding myBinding = new Binding("Value");
95     myBinding.Source = sl;
96     lb_amount.SetBinding(ContentProperty, myBinding);
97
98     sp.Children.Add(cb);
99     sp.Children.Add(lb_price);
100    sp.Children.Add(sl);
101    sp.Children.Add(lb_amount);
102
103    stackpanel_DrinkMenu.Children.Add(sp);
104 }
105
106 }
```

```
107
108     private void RadioButton_Checked(object sender, RoutedEventArgs e)
109     {
110         var rb = sender as RadioButton;
111         if (rb.IsChecked == true)
112         {
113             //MessageBox.Show(rb.Content.ToString());
114             takeout = rb.Content.ToString();
115         }
116     }
117
118     private void OrderButton_Click(object sender, RoutedEventArgs e)
119     {
120         // 確認訂購內容
121         orders.Clear();
122         for (int i=0; i< stackpanel_DrinkMenu.Children.Count; i++)
123         {
124             var sp = stackpanel_DrinkMenu.Children[i] as StackPanel;
125             var cb = sp.Children[0] as CheckBox;
126             var drinkName = cb.Content.ToString();
127             var sl = sp.Children[2] as Slider;
128             var amount = (int)sl.Value;
129
130             if (cb.IsChecked == true && amount >0) orders.Add(drinkName, amount);
131         }
132
133         // 顯示訂購內容
134         string msg = "";
135         string discount_msg = "";
136         int total = 0;
137
138         msg += $"此次訂購為{takeout}，訂購內容如下：\n";
139         int num = 1;
140         foreach (var order in orders)
141         {
142             int subtotal = drinks[order.Key] * order.Value;
143             msg += $"{num}. {order.Key} x {order.Value}杯，小計{subtotal}元\n";
144             total += subtotal;
145             num++;
146         }
147         msg += $"總金額為{total}元";
148
149         int sellPrice = total;
150         if (total >= 500)
151         {
152             sellPrice = (int)(total * 0.8);
153             discount_msg = $"恭喜您獲得滿500元打8折優惠";
154         }
155         else if (total >= 300)
156         {
157             sellPrice = (int)(total * 0.9);
```

```
158         discount_msg = $"恭喜您獲得滿300元打9折優惠";
159     }
160     else
161     {
162         discount_msg = $"未達到任何折扣條件";
163     }
164     msg += $"\\n{discount_msg}，原價為{total}元，售價為 {sellPrice}元。";
165
166     ResultTextBlock.Text = msg;
167 }
168 }
169 }
```

飲料點餐系統ver3

內用/外帶

☒ 內用☐ 外帶

確定訂購

☐ 紅茶大杯 60元 7☐ 紅茶小杯 40元 6☒ 綠茶大杯 50元 8☒ 綠茶小杯 30元 4☐ 可樂大杯 50元 8

此次訂購為內用，訂購內容如下：

1. 綠茶大杯 x 8杯，小計400元

2. 綠茶小杯 x 4杯，小計120元

總金額為520元

恭喜您獲得滿500元打8折優惠，原價為520元，售價為 416元。