```xml
1  <Window x:Class="ClassLesson.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:ClassLesson"
7          mc:Ignorable="d"
8          Title="2023選課系統" Height="600" Width="1200">
9      <Grid>
10         <Grid.RowDefinitions>
11             <RowDefinition Height="50"/>
12             <RowDefinition Height="500*"/>
13             <RowDefinition Height="30"/>
14         </Grid.RowDefinitions>
15         <Grid.ColumnDefinitions>
16             <ColumnDefinition Width="500*"/>
17             <ColumnDefinition Width="100"/>
18             <ColumnDefinition Width="500*"/>
19         </Grid.ColumnDefinitions>
20         <StackPanel Orientation="Horizontal" Background="#FFFDDFDF"
             Grid.ColumnSpan="3">
21             <Label Content="學生" FontSize="18"
                 VerticalAlignment="Center" HorizontalAlignment="Left"
                 Margin="100,0,0,0"/>
22             <ComboBox x:Name="cmbStudent" Width="150"
                 VerticalAlignment="Center" HorizontalAlignment="Left"
                 SelectionChanged="cmbStudent_SelectionChanged"/>
23         </StackPanel>
24         <StatusBar Grid.Row="2" Grid.ColumnSpan="3">
25             <Label x:Name="labelStatus" VerticalAlignment="Center"
                 HorizontalAlignment="Left" Margin="100,0,0,0" Width="300"
                 Height="30" />
26         </StatusBar>
27         <TabControl Grid.Row="1" Background="#FFEAF1D9" >
28             <TabItem Header="以教師來分類課程">
29                 <TreeView x:Name="tvTeacher" Background="#FFE2F6F2"
                     SelectedItemChanged="tvTeacher_SelectedItemChanged">
30                     <TreeView.Resources>
31                         <!-- Teacher節點的模板-->
32                         <HierarchicalDataTemplate DataType="{x:Type
                        local:Teacher}" ItemsSource="{Binding
                        TeachingCourses}">
33                             <StackPanel Orientation="Horizontal">
34                                 <Image Width="20" Height="20" Source="/
                            teacher.png" />
35                                 <TextBlock Text="{Binding TeacherName}"/
                            >
36                                 <TextBlock Text="("/>
37                                 <TextBlock Text="{Binding
                            TeachingCourses.Count}"/>
                                 <TextBlock Text=")"/>
```

```xml
39                          </StackPanel>
40                      </HierarchicalDataTemplate>
41                      <!-- Course節點的模板-->
42                      <DataTemplate DataType="{x:Type local:Course}">
43                          <StackPanel Orientation="Horizontal">
44                              <Image Width="20" Height="20" Source="/
         course.png"/>
45                              <TextBlock Text="{Binding CourseName}"
         FontWeight="Bold" Foreground=■"blue"/>
46                              <TextBlock Text=" : "/>
47                              <TextBlock Text="{Binding
         OpeningClass}"/>
48                              <TextBlock Text=" "/>
49                              <TextBlock Text="{Binding Type}"/>
50                              <TextBlock Text="{Binding Point}"
         Foreground=■"Red" FontWeight="Bold"/>
51                              <TextBlock Text="學分"/>
52                          </StackPanel>
53                      </DataTemplate>
54                  </TreeView.Resources>
55              </TreeView>
56          </TabItem>
57          <TabItem Header="所有課程">
58              <ListBox x:Name="lbCourse" Background=□"#FFFAF9E4"
                 SelectionChanged="lbCourse_SelectionChanged">
59                  <ListBox.Resources>
60                      <DataTemplate DataType="{x:Type local:Course}">
61                          <StackPanel>
62                              <StackPanel Orientation="Horizontal">
63                                  <TextBlock Text="{Binding
         CourseName}" FontWeight="Bold" Foreground=■"blue"/>
64                                  <TextBlock Text=" : "/>
65                                  <TextBlock Text="{Binding Point}"/>
66                                  <TextBlock Text="學分"/>
67                              </StackPanel>
68                              <StackPanel Orientation="Horizontal">
69                                  <TextBlock Text="{Binding Type}" />
70                                  <TextBlock Text=" "/>
71                                  <TextBlock Text="{Binding
         OpeningClass}" Foreground=■"DarkBlue"/>
72                              </StackPanel>
73                          </StackPanel>
74                      </DataTemplate>
75                  </ListBox.Resources>
76              </ListBox>
77          </TabItem>
78      </TabControl>
79      <StackPanel Grid.Row="1" Grid.Column="1" Orientation="Vertical">
80          <Button x:Name="btnRegister" Content="選課" Width="80"
             Height="50" Margin="0,100,0,0" FontSize="16"
             FontWeight="Bold" Click="btnRegister_Click" />
81          <Button x:Name="btnWithdrawl" Content="退選" Width="80"
             Height="50" Margin="0,20,0,0" FontSize="16"
```

```xml
                    FontWeight="Bold" Click="btnWithdrawl_Click" />
82              <Button x:Name="btnSave" Content="儲存紀錄" Width="80"
                    Height="50" Margin="0,20,0,0" FontSize="16"
                    FontWeight="Bold" Click="btnSave_Click" />
83          </StackPanel>
84          <ListView x:Name="lvRecord" ItemsSource="{Binding records}"
                Grid.Row="1" Grid.Column="2" Background="#FFE6DEFC"
                SelectionChanged="lvRecord_SelectionChanged">
85              <ListView.View>
86                  <GridView>
87                      <GridViewColumn Header="學號"
                        DisplayMemberBinding="{Binding
                        SelectedStudent.StudentId}"/>
88                      <GridViewColumn Header="姓名"
                        DisplayMemberBinding="{Binding
                        SelectedStudent.StudentName}"/>
89                      <GridViewColumn Header="課程名稱"
                        DisplayMemberBinding="{Binding
                        SelectedCourse.CourseName}"/>
90                      <GridViewColumn Header="學分"
                        DisplayMemberBinding="{Binding SelectedCourse.Point}"/>
                        >
91                      <GridViewColumn Header="類別"
                        DisplayMemberBinding="{Binding SelectedCourse.Type}"/>
92                      <GridViewColumn Header="開課班級"
                        DisplayMemberBinding="{Binding
                        SelectedCourse.OpeningClass}"/>
93                  </GridView>
94              </ListView.View>
95          </ListView>
96      </Grid>
    </Window>
```