BOOKKEPING APP

第十一組

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Content

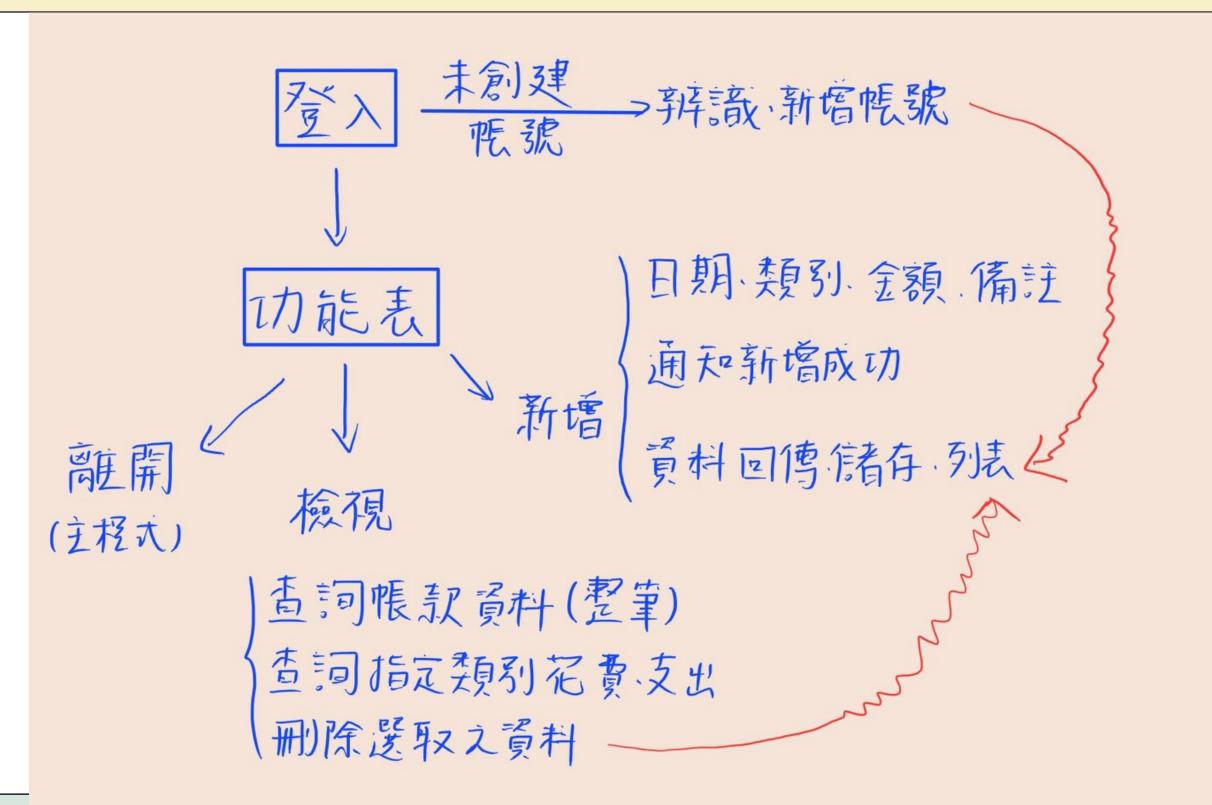
功能介紹

實作細節

操作過程

Q & A

多功能介紹





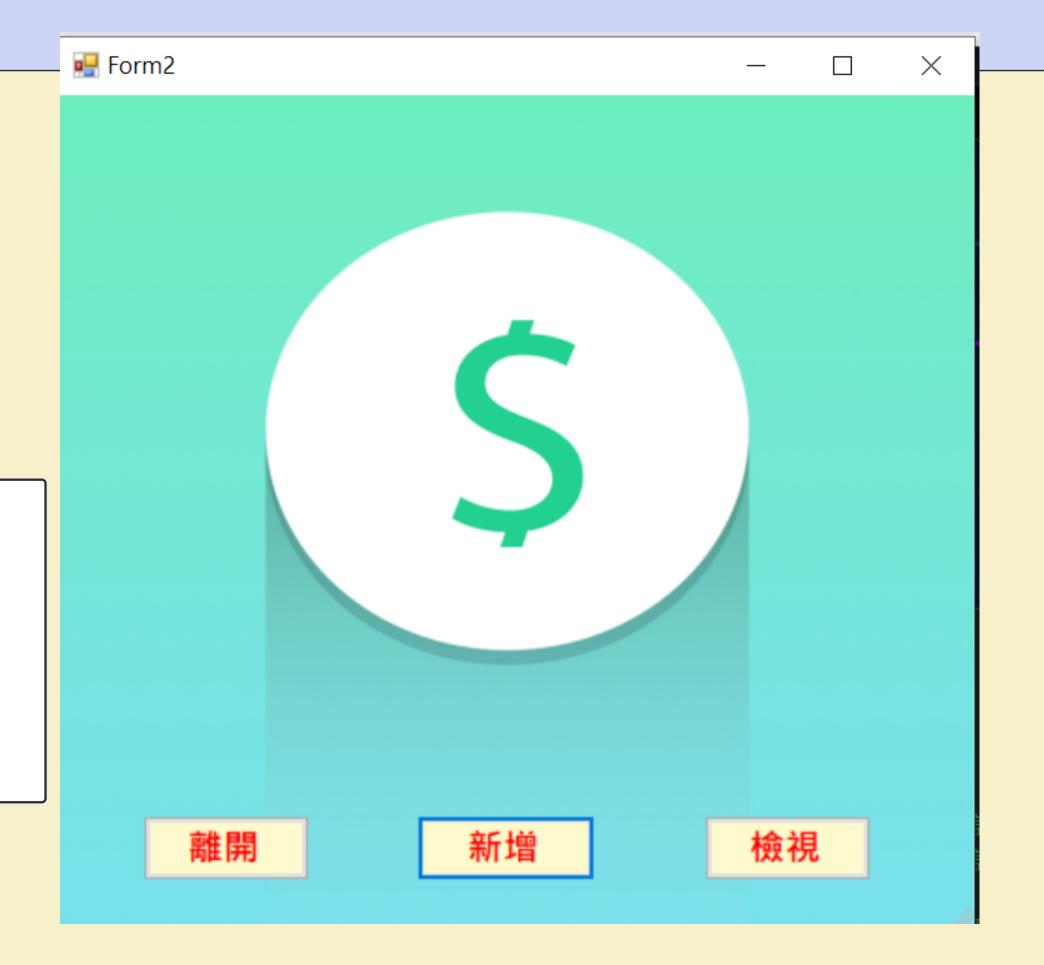
登錄頁面 檢查使用者是否有登錄 記錄,若無則將資料記錄 到user.txt以創建身分 ;若有記錄則可進錄軟 體。





記帳軟體主畫面

-按新增可進入記帳頁面 -按檢視可查看各類別帳目資訊 -按離開則可離開應用程式



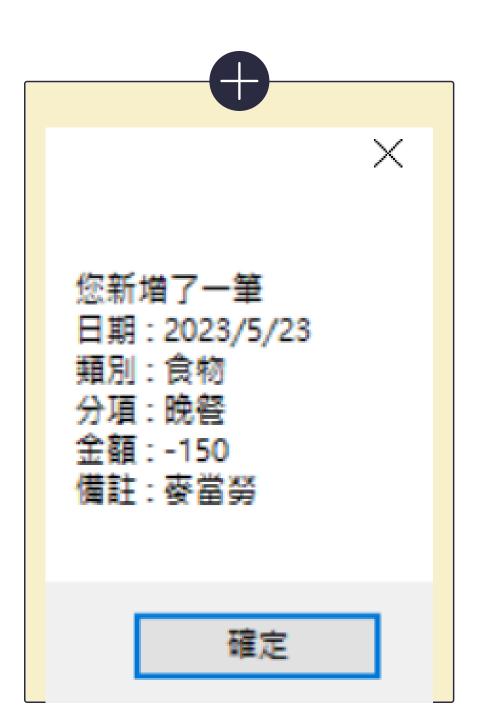


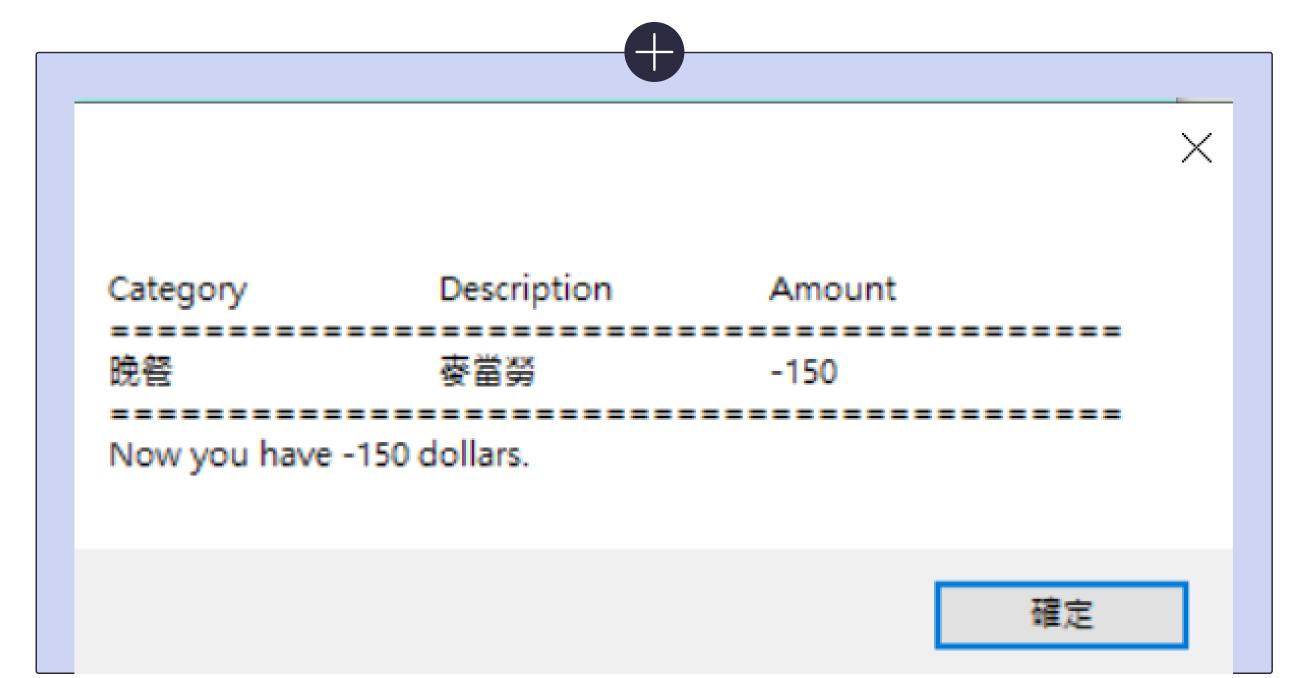
點選、輸入、加入

- 1. 選取日期及帳目類別
- 2. 輸入金額及備註
- 3. 加入及可將資料記錄至 RECORD此CLASS之中

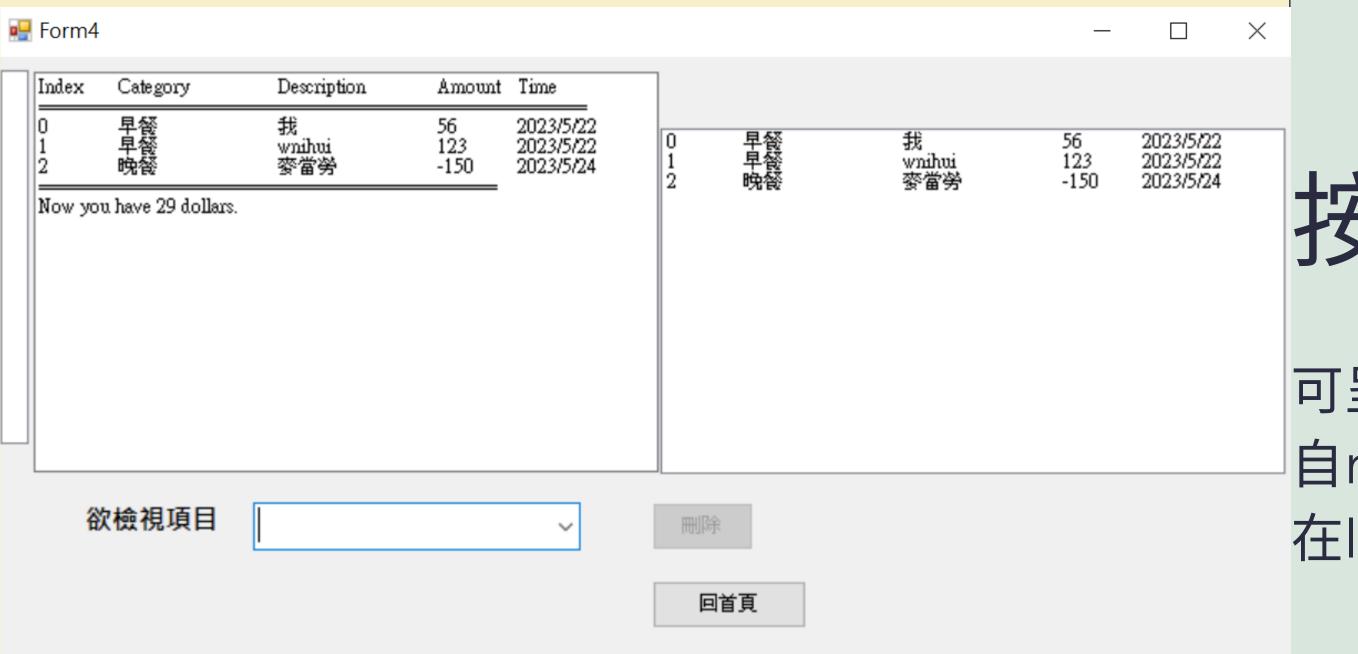


點選加入後的Message Box







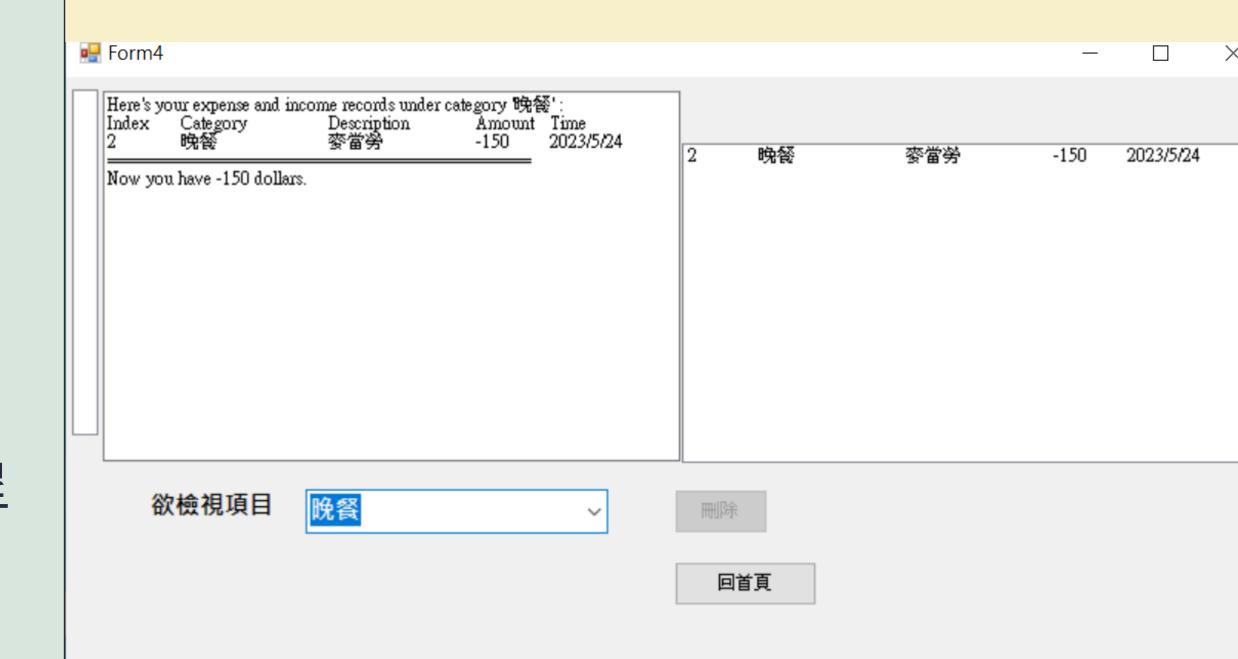


按下檢視按鈕

可呈現當前帳目記錄 自record抓取資料並呈現 在listbox

如需檢視特殊機能的

可點選下方Combo box選取欲檢視項目,listbox會呈現幾取項目的整批資料



Class

```
public class Records
public class Record
                                                                                                     private int _initial_money;
    11 個參考
                                                                                                     public List<Record> _records;
    public string _category { get; }
                                                                                                     4 個參考
    8 個參考
                                                                                                     public Records()
    public string _description { get; }
                                                                                                        Initialize();
    14 個參考
    public int _amount { get; }
                                                                                                     1 個參考
                                                                                                     public void Initialize()
    7 個參考
                                                                                                        int initial_money = 0;
    public string _time { get; }
                                                                                                        List<Record> records = new List<Record>();
    4 個參考
    public Record(string category, string description, int amount, string time)
                                                                                                        try
                                                                                                            using (StreamReader sr = new StreamReader("records.txt"))
         _category = category;
                                                                                                               Console.WriteLine("Welcome back!");
         _description = description;
                                                                                                               initial_money = int.Parse(sr.ReadLine());
         _amount = amount;
                                                                                                               string line;
                                                                                                               while ((line = sr.ReadLine()) != null)
         _time = time;
                                                                                                                  records.Add(new Record(line.Split('')[0], line.Split('')[1], int.Parse(line.Split('')[2]), line.Split('')[3]));
```

登入資料確認

```
login = 0;
private void button1_Click(object sender, EventArgs e)
   //textBox1.Text = ""; //先清空textbox1的文字
   bool exist = false;
   string password = "";
                                                                                                               if (password = txtPassword.Text)
   if (txtUsername.Text != "" && txtPassword.Text != "")
                                                                                                                  //密碼正確得進入視窗
      //檢查使用者名稱是否存在,
       exist = userlist.TryGetValue(txtUsername.Text, out password);
                                                                                                                  lo_user = txtUsername.Text;
       if (!exist)
                                                                                                                  login = 1;
          //跳出視窗詢問是否需要創建帳號
          DialogResult register = MessageBox.Show("是否註冊帳號?", "未找到使用者", MessageBoxButtons.YesNo);
          if (register = DialogResult.Yes)
                                                                                                                  //密碼錯誤即跳出視窗
                                                                                                                  login = -1;
              //建立帳號後將使用者資訊存入user.txt
                                                                                                                  MessageBox.Show("password error!");
              StreamWriter sw = new StreamWriter("User.txt", true);
              userlist.Add(txtUsername.Text, txtPassword.Text);
              exist = true;
              login = 1;
              sw.WriteLine(txtUsername.Text + " " + txtPassword.Text);
              sw.Close();
                                                                                                           //若未輸入任何一textbox即跳出輸入訊息
              lo_user = txtUsername.Text;
                                                                                                           login = 0;
                                                                                                           if (txtUsername.Text == "" && txtPassword.Text == "") MessageBox.Show("請輸入帳號與密碼", "輸入錯誤");
                                                                                                           else if (txtUsername.Text == "") MessageBox.Show("請輸入帳號", "輸入錯誤");
                                                                                                           else MessageBox.Show("請輸入密碼", "輸入錯誤");
              login = 0;
```



檢查使用者是否有輸入過記錄以及檢視

```
private void Form2_Load(object sender, EventArgs e)

{
    //將按鈕定錨,縮放視窗大小按鈕不會固定不動=跑掉
    label1.Anchor = AnchorStyles.Left;
    label2.Anchor = AnchorStyles.Bottom;
    label3.Anchor = AnchorStyles.Right;
    btnAdd.Anchor = AnchorStyles.Bottom;
    if (!File.Exists(user))

{
        File.Create(user).Close();
    }
    StreamReader sr = new StreamReader(user);
    while ((input = sr.ReadLine()) != null)
    {
        records._records.Add(new Record(input.Split(' ')[0], input.Split(' ')[1], int.Parse(input.Split(' ')[2]), input.Split(' ')[3]));
    }

sr.Close();
```

```
//建立view此方法
2 個參考
public string View()
  string result = "";
   result+="Category
                                         \tAmount \n";
                      \tDescription
   int total_money = _initial_money;
  foreach (Record record in _records)
                                      //讀取各records內資料
      total_money += record._amount;
      result+=$"{record._category,-15}\t{record._description,-20}\t{record._amount}\n";
   result += $"Now you have {total_money} dollars.\n";
   return result;
//檢視功能的方法
2 個參考
public string ViewInTextbox()
   string result = "";
   result += "Index\tCategory
                             \tDescription
                                               \tAmount \tTime "+Environment.NewLine;
   result += "------ "+Environment.NewLine;
   int total_money = _initial_money;
   int index = 0;
   foreach (Record record in _records)
      total_money += record._amount;
      result += $"{index,-5}\t{record._category,-15}\t{record._description,-20}\t{record._amount}\t{record._time}" + Environment.NewLine;
      index++;
   result += "-----" + Environment.NewLine;
   result += $"Now you have {total_money} dollars." + Environment.NewLine;
   return result;
```



檢視列的搜尋功能並將其細項一併處理

```
3 個參考
public List<string> FindInListBox(string target_category, Categories categories)
   if (target_category.Substring(0,1) == "-")
       target_category = target_category.TrimStart('-');
       Console.WriteLine("remove");
   //如果'target_category'是"食物"、"交通"、"娛樂"、"生活"或"收入"為大類別,用findsubcategory()將結果存入find
   List<string> find = new List<string>();
   if (target_category == "食物"|| target_category == "交通" || target_category == "娛樂" ||
       target_category == "生活" || target_category == "收入" )
      find = categories.FindSubcategories(target_category);
   //儲存匹配的記錄
   List <string> result = new List<string>();
                                 //累計總金額
   int total_amount = 0;
                                 7/記錄索引
   int index = 0;
   foreach (Record record in _records)
       //若搜尋全,要查所有記錄的類別
       if(target_category == "全")
           total_amount += record._amount;
           result.Add($"{index, -5}\t{record._category, -15}\t{record._description, -20}\t{record._amount, -5}\t{record._time}");
       //若搜定類別,記錄到 result並累計金額
       else if (record._category == target_category)
           total_amount += record._amount;
           result.Add($"{index, -5}\t{record._category, -15}\t{record._description, -20}\t{record._amount, -5}\t{record._time}");
       else
           if(find.Contains(record._category))
               total_amount += record._amount;
               result.Add(f''{ index, -5}\t{ record._category, -15}\t{ record._description, -20}\t{ record._amount, -5}\t{ record._time}");
```



新增完項目後將跳出視窗知會使用者

```
private void choMonth_SelectedIndexChanged(object sender, EventArgs e)
    if (cboMonth.Text = "1" || cboMonth.Text = "3" || cboMonth.Text = "5" ||
        cboMonth.Text = "7" || cboMonth.Text = "8" || cboMonth.Text = "10" ||
        cboMonth.Text = "12"
        cboDay.Items.Clear();
        for (int i = 1; i \le 31; i++)
           cboDay.Items.Add(i.ToString());
    if (cboMonth.Text = "4" || cboMonth.Text = "6" || cboMonth.Text = "9" ||
        cboMonth.Text = "11"
        cboDay.Items.Clear();
        for (int i = 1; i \le 30; i++)
           cboDay.Items.Add(i.ToString());
    if (cboMonth.Text = "2")
        cboDay.Items.Clear();
        for (int i = 1; i \le 29; i++)
           cboDay.Items.Add(i.ToString());
```

```
string select = "";
string ca = "";
int error = 0;
try
    if (int.Parse(txtmoney.Text).GetType() != typeof(int))
       MessageBox.Show("金額輸入格式錯誤! (e.g. -1000)");
   else
       string str = "您新增了一筆";
       //StreamWriter sw = new StreamWriter(user, true);
       string Time = cboYear.Text + "/" + cboMonth.Text + "/" + cboDay.Text;
       //若早餐的radiobox有被點選
       if (rdbbreakfast.Checked)
           //利用+=將字串str疊加資訊
           select = rdbbreakfast.Text:
           ca = lblfood.Text;
       else if (rdblunch.Checked)
           select = rdblunch.Text:
           ca = lblfood.Text;
       else if (rdbdinner.Checked)
           select = rdbdinner.Text;
           ca = lblfood.Text;
       else if (rdbdrink.Checked)
```



新增完項目後將跳出視窗知會使用者

```
select= rdbbonus.Text;
   ca = lblin.Text;
if(!(rdbsalary.Checked || rdbbonus.Checked))
   if (txtmoney.Text.Substring(0,1) != "-")
       txtmoney.Text = "-" + txtmoney.Text;
else
   if (txtmoney.Text.Substring(0, 1) = "-")
       MessageBox.Show("金額輸入有誤!");
       error = 1;
str += "\n日期 : " + Time +
       "\n類別 : " + ca + "\n分項 : " + select + "\n金額 : " +
       txtmoney.Text + "\n備註:" + txtps.Text;
//若皆沒有發生錯誤,則記錄至records
if (error = 0)
   MessageBox.Show(str);
   records._records.Add(new Record(select, txtps.Text, int.Parse(txtmoney.Text), Time));
   old_records._records.Add(new Record(select, txtps.Text, int.Parse(txtmoney.Text), Time));
   MessageBox.Show(records.View());
```



檢視欲搜尋項目加入listbox

```
textBox1.Text = records.ViewInTextbox();
listBox1.Items.Clear();
listBox1.Items.AddRange(records.FindInListBox(comboBox1.SelectedItem.ToString(),categories).ToArray());
```

可直接在listbox刪除資料

```
private void button_delete_Click(object sender, EventArgs e)
   button delete.Enabled = false;
   if (listBox1.SelectedIndex != -1) //檢查是否有選取ListBox項目。
       records.Delete(listBox1.SelectedIndex);
       listBox1.Items.RemoveAt(listBox1.SelectedIndex);
       textBox1.Text = records.ViewInTextbox();
       //移除所選取的ListBox項目
   else
       MessageBox.Show("請先選取要刪除的項目"); //若未選取任何項目,顯示提示訊息
```













使用者帳款輸出 可重覆讀檔與覆寫 新增與刪除皆可更新於此 資料永久儲存

使用者帳密輸出

實際操作



謝納野學