

# MarketPlace Project

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Project 說明:

製作一個 MarketPlace 平台。

具備功能:

1. 註冊使用者帳號 REGISTER
2. 添加一筆清單內容 CREATE\_LISTING
3. 刪除一筆清單內容 DELETE\_LISTING
4. 顯示一筆清單資訊 GET\_LISTING
5. 顯示特定種類的清單資訊 GET\_CATEGORY
6. 顯示清單中最多的種類 GET\_TOP\_CATEGORY

實作:

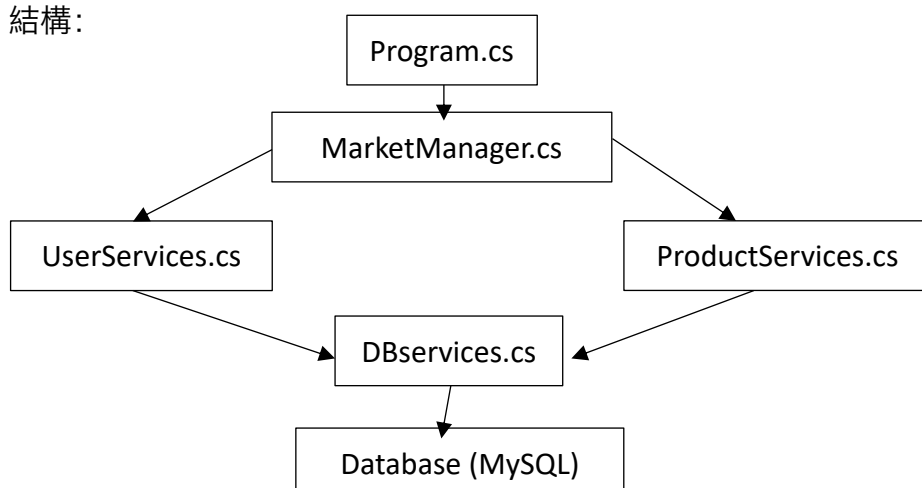
使用 SQLite 與 C# .NET 實作上述功能與連結 Database 完成 Project。

1. 以兩個 Table Users, Products 分別紀錄使用者帳號與商品資訊。

Username	
▶	user1
—	user2
—	user3
—	user4

ListID	Title	Description	Price	Username	Created_at	Category
▶ 10000	candy	sweet	50	user1	2021-05-25 15:14:53	food
10001	rice	soft	70	user2	2021-05-25 15:30:03	food
10002	meat	red	200	user2	2021-05-25 15:31:01	food
10003	ball	hard	10	user3	2021-05-25 15:31:54	toy
10006	robot	human	80	user1	2021-05-25 15:32:25	toy
10007	scissor	cut	30	user2	2021-05-25 15:33:14	tool

2. DBservices.cs: Database 相關的 function。
3. UserServices.cs: Username 註冊的功能。
4. ProductServices.cs: Product 相關的操作功能。
5. MarketManager.cs: 統整介面與功能。
6. Program.cs: 主程式 int main()。
7. 結構:



## 8. 測試結果: (Sample)

```
MarketPlace Start!
# REGISTER user1
Success
# CREATE_LISTING user1 'Phone model 8' 'Black color, brand new' 1000 'Electronics'
100001
# GET_LISTING user1 100001
Phone model 8|Black color, brand new|1000|5/25/2021 7:47:36 PM|Electronics|user1
# CREATE_LISTING user1 'Black shoes' 'Training shoes' 100 'Sports'
100002
# REGISTER user2
Success
# REGISTER user2
Error - user already existing
# CREATE_LISTING user2 'T-shirt' 'White color' 20 'Sports'
100003
# GET_LISTING user1 100003
T-shirt|White color|20|5/25/2021 7:47:36 PM|Sports|user2
# GET_CATEGORY user1 'Fashion' sort_time asc
Error - category not found
# GET_CATEGORY user1 'Sports' sort_time dsc
Black shoes|Training shoes|100|5/25/2021 7:47:36 PM
T-shirt|White color|20|5/25/2021 7:47:36 PM
# GET_CATEGORY user1 'Sports' sort_price dsc
Black shoes|Training shoes|100|5/25/2021 7:47:36 PM
T-shirt|White color|20|5/25/2021 7:47:36 PM
# GET_TOP_CATEGORY user1
Sports
# DELETE_LISTING user1 100003
Error - listing owner mismatch
# DELETE_LISTING user2 100003
Success
# GET_TOP_CATEGORY user2
Electronics
# DELETE_LISTING user1 100002
Success
# GET_TOP_CATEGORY user1
Electronics
# GET_TOP_CATEGORY user3
Error - unknown user
# █
```