

<https://gilbert-sun.github.io/api/Recycle.Services.RobotPickMongoServices.html> (<https://gilbert-sun.github.io/api/Recycle.Services.RobotPickMongoServices.html>)

C# MongoPickDBmodel.cs × C# TimelineChart.cs × C# TimelineChartViewModel.cs

```
8
9
10 namespace Recycle.Models
11 {
12     public class MongoPickDBmodel
13     {
14
15         [BsonId]
16         [BsonRepresentation(BsonType.ObjectId)]
17         public string Id { get; set; }
18
19         [BsonElement("RobotID")]
20         public string RobotID;
21
22         [BsonElement("BottleName")]
23         [JsonProperty("BottleName")]
24         public string BottleName { get; set; }
25
26         [BsonElement("Confidence")]
27         public decimal Confidence { get; set; }
28
29         [BsonElement("Category")]
30         public string Category { get; set; }
31
32         [BsonElement("Sink")]
33         public string Sink { get; set; }
34
35         [BsonElement("Datetimetag")]
36         public long Datetimetag { get; set; }
37
38         [BsonElement("Timestamp")]
39         public DateTime Timestamp { get; set; }
40
41     }
42 }
```



## WPF MongoDB\_Model(Table二，錯誤紀錄)：

相關細節請參考程式碼

[https://github.com/gilbert-sun/Recycle\\_1.7/blob/master/Models/MongoLogDBmodel.cs](https://github.com/gilbert-sun/Recycle_1.7/blob/master/Models/MongoLogDBmodel.cs)  
([https://github.com/gilbert-sun/Recycle\\_1.7/blob/master/Models/MongoLogDBmodel.cs](https://github.com/gilbert-sun/Recycle_1.7/blob/master/Models/MongoLogDBmodel.cs))

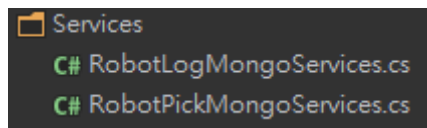
<https://gilbert-sun.github.io/api/Recycle.Services.RobotLogMongoServices.html> (<https://gilbert-sun.github.io/api/Recycle.Services.RobotLogMongoServices.html>)

C# MongoPickDBmodel.cs × C# MongoLogDBmodel.cs × C# TimelineChart.cs ×

```
1  using ...
2
3
4
5
6
7
8
9  namespace Recycle.Models
10 {
11      24 usages  4 exposing APIs
12     public class MongoLogDBmodel
13     {
14         [BsonId]
15         [BsonRepresentation(BsonType.ObjectId)]
16          11 usages
17         public string Id { get; set; }
18
19         [BsonElement("RobotID")]
20         public string RobotID;
21
22         [BsonElement("Content")]
23         [JsonProperty("Content")]
24          8 usages
25         public string Content { get; set; }
26
27         [BsonElement("Category")]
28          7 usages
29         public string Category { get; set; }
30
31         [BsonElement("Status")]
32          6 usages
33         public string Status { get; set; }
34
35         [BsonElement("Datetimetag")]
36          14 usages
37         public long Datetimetag { get; set; }
38
39         [BsonElement("Timestamp")]
40          8 usages
41         public DateTime Timestamp { get; set; }
42     }
43 }
```

# MongoDB MVC架構圖中Service (Controller) 的有關mongoDB檔案

初始化有兩個檔案, 分別對應Table一(RobotPickMongoServices.cs)和Table二(RobotLogMongoServices.cs)



## Table一和Table二 初始化 設定欄位

```
*. [X] Table一 name = [robot1db]
*. [X] Table二 name = [robot1logdb4]
*. [X] IP          = [127.0.0.1]
*. [X] Port        = [27017]
```

## Table一 初始化設定

```
public RobotPickMongoServices()
{
    var client = new MongoClient(connectionString: "mongodb://localhost:27017");//settings.ConnectionString);
    var database = client.GetDatabase(name: "mongoDBrobot1");//settings.DatabaseName);
    collection1S = database.GetCollection<MongoPickDBmodel>(name: "robot1db");//settings.DeltaRobotCollectionName);
    Console.WriteLine("\n-----Hi-----: robotmongodbServices.cs : !!\n");//" 1:{0}, 2:{1}, 3:{2}", settings.DatabaseName, se
}
```

## Table二 初始化設定

```
public RobotLogMongoServices()
{
    var client = new MongoClient(connectionString: "mongodb://localhost:27017");//settings.ConnectionString);
    var database = client.GetDatabase(name: "mongoDBrobot4");//settings.DatabaseName);mongoDBrobot1
    collection2S = database.GetCollection<MongoLogDBmodel>(name: "robot1logdb4");//settings.DeltaRobotCollectionName); robot1logdb
    Console.WriteLine("\n-----Hi-----: DeltaRobotLogModelServices-Log-DbServices.cs : !!\n");//" 1:{0}, 2:{1}, 3:{2}", settings.
}
```

## Table一和Table二 宣告初始化

<https://gilbert-sun.github.io/api/Recycle.ViewModels.RobotViewModel.html> (<https://gilbert-sun.github.io/api/Recycle.ViewModels.RobotViewModel.html>)

```

C# RobotViewModel.cs x
68      //----- gilbert start 2021.
69      // for DB demo
70      _robotmongodbServices = new RobotPickMongoServices();
71      robotLogMongoServices = new RobotLogMongoServices();
72      MainViewModel.ConfigClass.gMongoLogDBmodel = robotLogMongoServices;
73      MainViewModel.ConfigClass.gMongoPickDBmodel = _robotmongodbServices;
74
75      // TODO: for demo, remove it
76      Timer = new DispatcherTimer
77      {
78          Interval = TimeSpan.FromSeconds(2)
79      };
80      Timer.Tick += Timer_Tick;
81      Timer.Start();
82  }
83

```

在ViewModels目錄裡的RobotViewModel.cs line 70-73

[https://github.com/gilbert-sun/Recycle\\_1.7/blob/master/ViewModels/RobotViewModel.cs](https://github.com/gilbert-sun/Recycle_1.7/blob/master/ViewModels/RobotViewModel.cs)  
 (https://github.com/gilbert-sun/Recycle\_1.7/blob/master/ViewModels/RobotViewModel.cs)

```

v ViewModels
  C# AdjustPageViewModel.cs
  C# BaseViewModel.cs
  C# HistogramItemViewModel.cs
  C# HomePageViewModel.cs
  C# LogPageViewModel.cs
  C# MainViewModel.cs
  C# ObservableQueue.cs
  C# PageViewModel.cs
  C# RobotApi.cs
  C# RobotParameter.cs
  C# RobotViewModel.cs
  C# SinkViewModel.cs
  C# StatusPageViewModel.cs
  C# TaskPageViewModel.cs
  C# TimelineChartViewModel.cs

```