# **Application:** FlightWeb

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## I. Architecture:

- ASP.NET MVC5 (Framework 4.5.2)

- Pattern Used: Generic Repository Pattern

BDD: EF 6.1 CodeFirst.Reporting: Crystal report

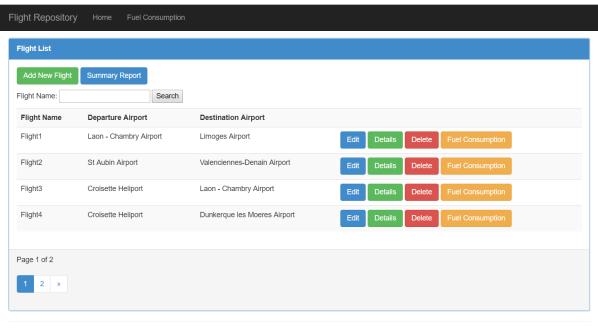
#### II. Used Libraries:

- Google Maps API
- PageList
- AutoMapper

**Note**: I used JsonFile (airportsFR.json) to load list of airports in DropdownLists (Departure & Destination). Another approach is to use WebAPI.

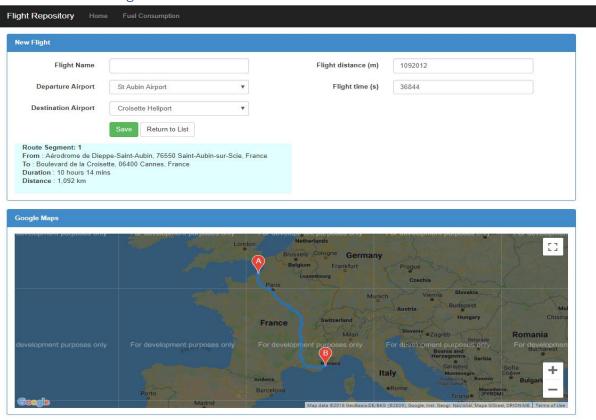
# III. Flight:

#### 1. List of Flights:



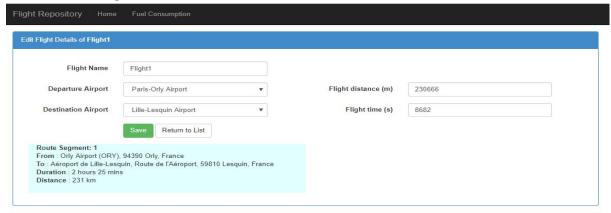
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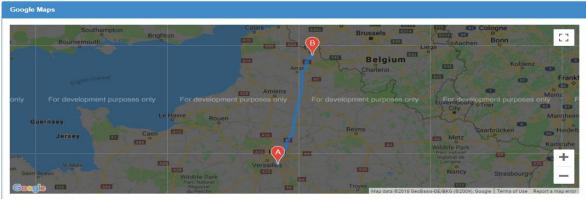
#### 2. Add New Flight:



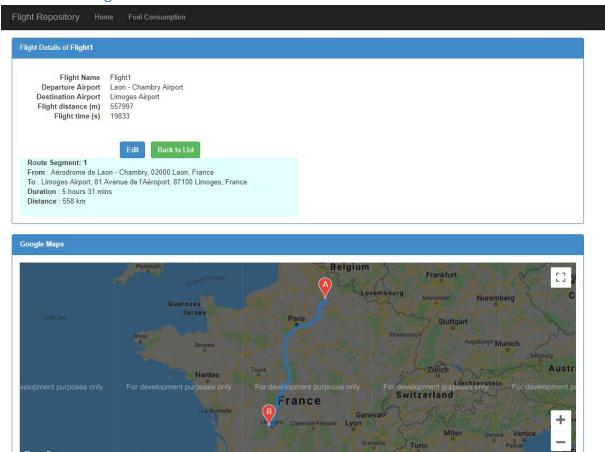
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## 3. Edit a Flight:





#### 4. Show flight details:



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## 5. Load a Summary Report:



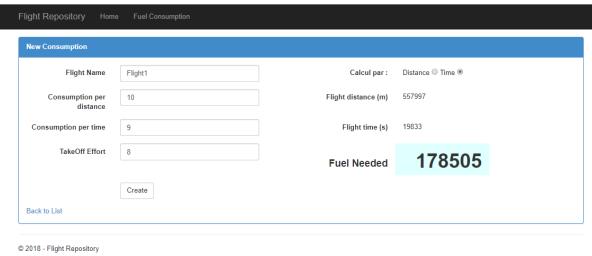
# IV. Consumption:

## 6. List Of Consumptions

light Repository	Home Fuel Consumption					
Consumption List						
Flight Name	Consumption per distance	Consumption per time	TakeOff Effort			
Flight1	2.00	3.00	4.00	Details Delete Edit		
Flight2	17.00	7.00	6.00	Details Delete Edit		
Flight2	3.00	4.00	8.00	Details Delete Edit		
Flight1	99.00	9.00	9.00	Details Delete Edit		
Page 1 of 2						
1 2 »						

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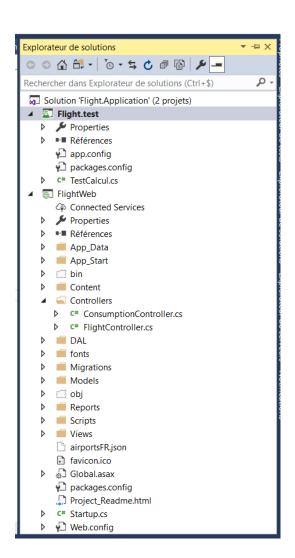
# 7. Add new Consumption :



#### 8. Edit a consumption:

Flight Repository Home	Fuel Consumption								
Edit Consumption Details of Flight1									
Consumption per distance	2.00	Flight distance (m)	557997						
Consumption per time	3.00	Flight time (s)	19833						
TakeOff Effort	4.00	Fuel Needed	1115998						
Calcul par :	Distance Time Save Return to List								

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```
airportsFR.json ⊅ X Details.cshtml
                                        Edit.cshtml Create.cshtml Create.cshtml FlightC
Schéma: <Aucun schéma sélectionné>
            =[
       1
                        "iata": "JCA",
       3
                        "iso": "FR",
                        "status": 1,
"name": "Croisette Heliport",
       5
       6
                        "continent": "EU",
"type": "heliport",
"size": null
       8
       9
      10
                  },
      11
                   {
                        "iata": "DPE",
      12
                        "lon": "1.241111",
"iso": "FR",
      13
      14
                        "status": 1,
      15
                        "name": "St Aubin Airport",
      16
                        "continent": "EU",
      17
                        "type": "airport",
"lat": "49.961388",
      18
      19
                        "size": "small"
      20
      21
                  },
      22
                        "iata": "CQF",
"lon": "1.933333",
"iso": "FR",
      23
      24
      25
                        "status": 1,
      26
                        "name": "Calais-Dunkerque Airport",
      27
                        "continent": "EU",
      28
                        "type": "airport",
"lat": "50.95",
      29
      30
                        "size": "medium"
      31
      32
                  },
      33
      34
                        "iata": "XCP",
                        "iso": "FR",
      35
                        "status": 1,
      36
                        "name": null,
      37
99 %
Sortie Liste d'erreurs... Paramètres d'exception Console du Gestionnaire de package
```