UI : WPF/UWP

Tests : Unit Test (of Logic)

Logic(BL) : WebApi (with Class Library)

Services : SignalR (Hubs)

Simulator : Console Application

DB (DAL): SQL (Stations , History , Arrivings , Departures)

Repository : Class Library

Common : Class Library

**Exemple :**

Simulator (Departure/Arriving) -> Service -> Logic (+ ->DB + Repository) -> Service (Reponse) -> UI (Show)

**Features :**

* Service / Logic :

Init();

Departure(Plane Plane);

Arrival(Plane Plane);

MoveRequest(Plane Plane);

* UI :

Init();

OnMove(Plane Plane); -> Plane between stations

OnUpdate(Plane Plane); -> Graphs and tables

* DAL:

Init();

AfterMove(Plane Plane);

Arrival(Plane Plane);

Departure(Plane Plane);

* Simulator :

Departure();

{  
IService serv = new IService();

Plane f = new Plane (“AE123”);

serv.Departure(f);

Console.Writeline(“ New Departure of flight : “ + f.name);

}

Arrival();

Timer() { New Departure / Arrival all … seconds/milliseconds };

* Common :

All Interfaces / Enums

Plane {

Name

StationNumber

}

Station {

Number

Plane

IsAvailable { get : return Plane == null }

}