

ChuChuFly

Make the fun more intense,
Make it cost less.

Share your flight !

Group #1

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SYSTEM DEFINITION

Plane renting is out of your budget line, yet you can't fight that plane trip craving you have? ChuChuFly is here for you.

ChuChuFly is a website that connects individuals, having pilot licenses or not, in order to share the cost of flight trips.

The platform allows pilots to planify flights and advise all the necessary information. While non-pilot individuals can look for flights to join by searching accordingly to their geolocation preferences and the number of seats they would like to book.



USERS

Passengers

A user can make a quick search for the available flights on our ChuChuFly, but can only book them when logged in as a passenger or a pilot.

Pilots

In order to register as a pilot, further data is necessary such as licence and medical certificate.

A pilot can plan a flight and accept or not passengers' reservations.

BUSINESS OBJECTS

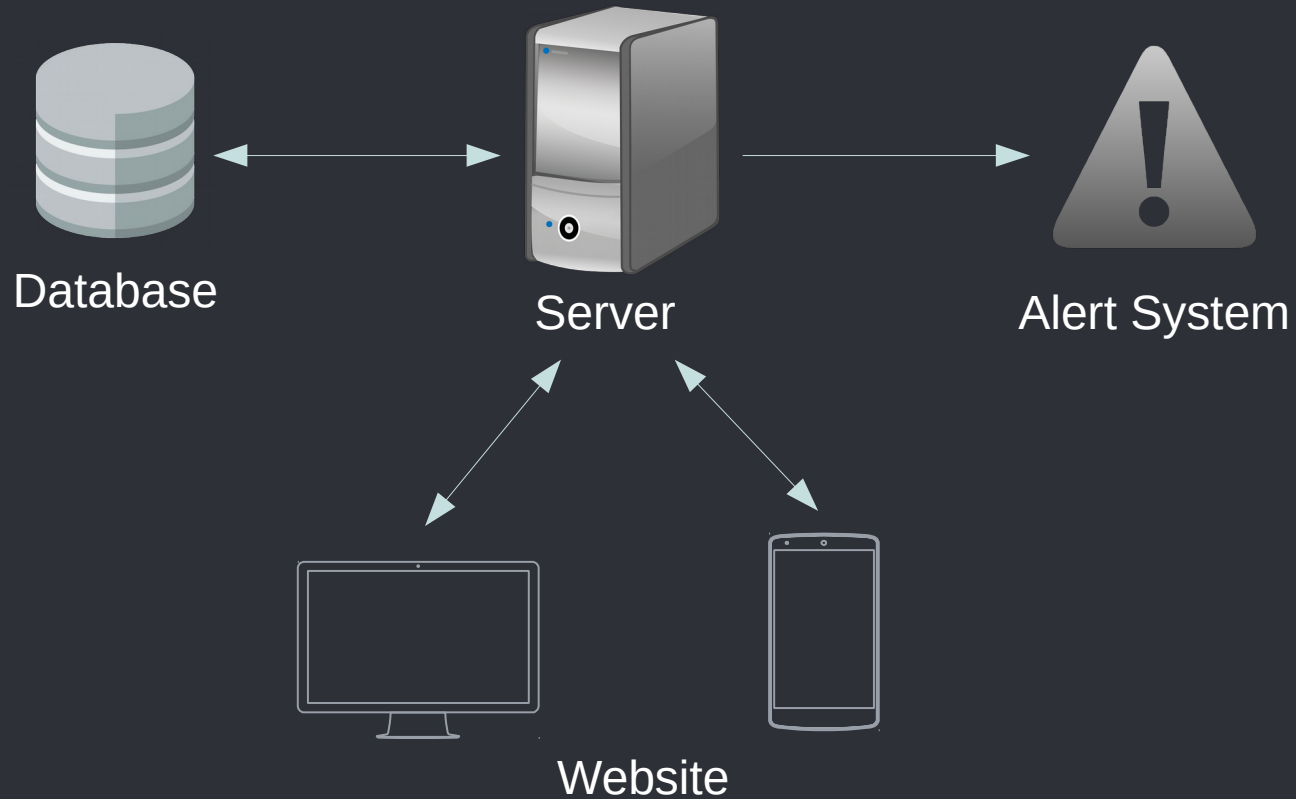
User

- id
- firstname
- lastname
- email
- gsm
- address
- role

Flight

- departure_airfield
- destination_airfield
- date
- departure_hour
- plane
- pilot

TECHNICAL DIAGRAM



WEBSITE OUTLINE



The website version of ChuChuFly platform allows you to navigate through its simply designed interfaces and well-thought out ergonomony.

WEBSITE NAVIGATION PLAN

ChuChuFly has three different navigation plans accordingly to whether the user is logged in as a passenger, a pilot, or not logged in at all.

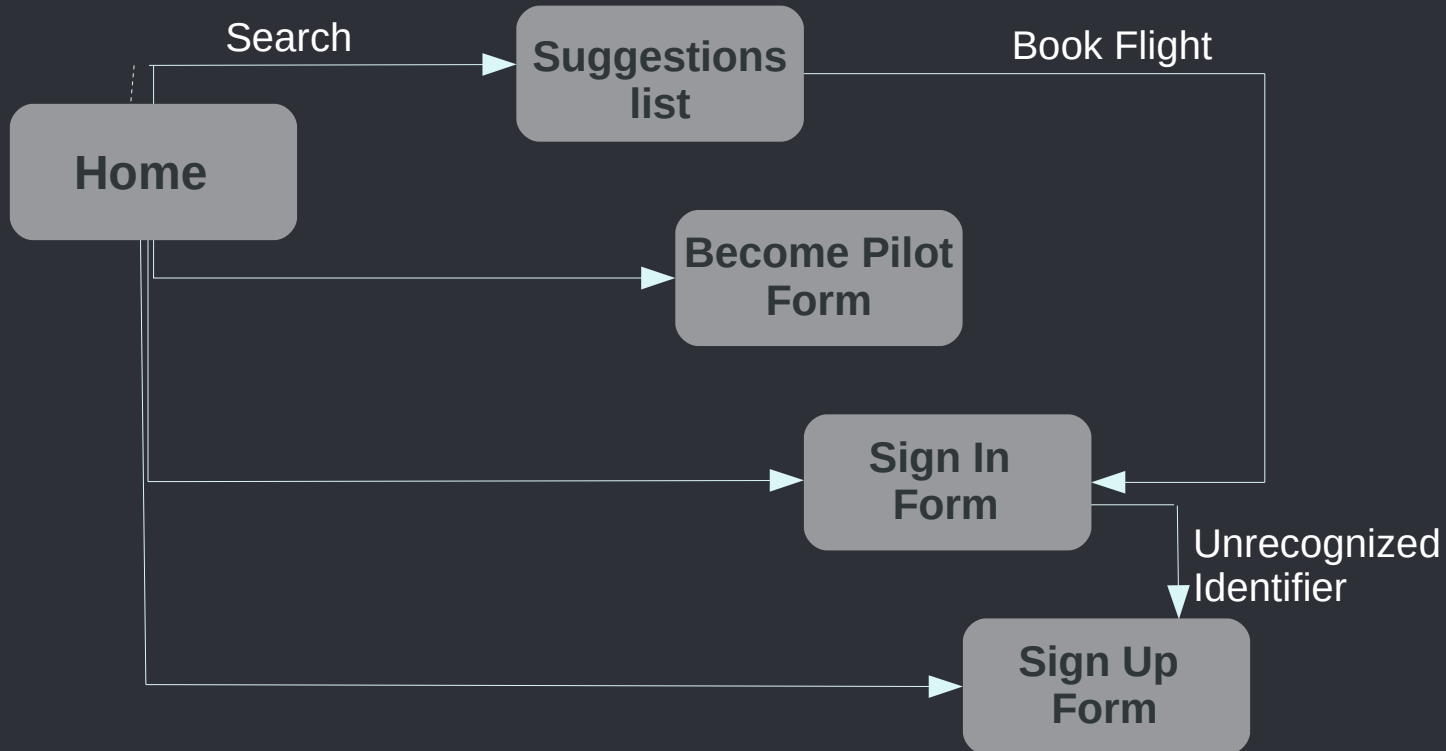
Pilot

Passenger

Unregistered

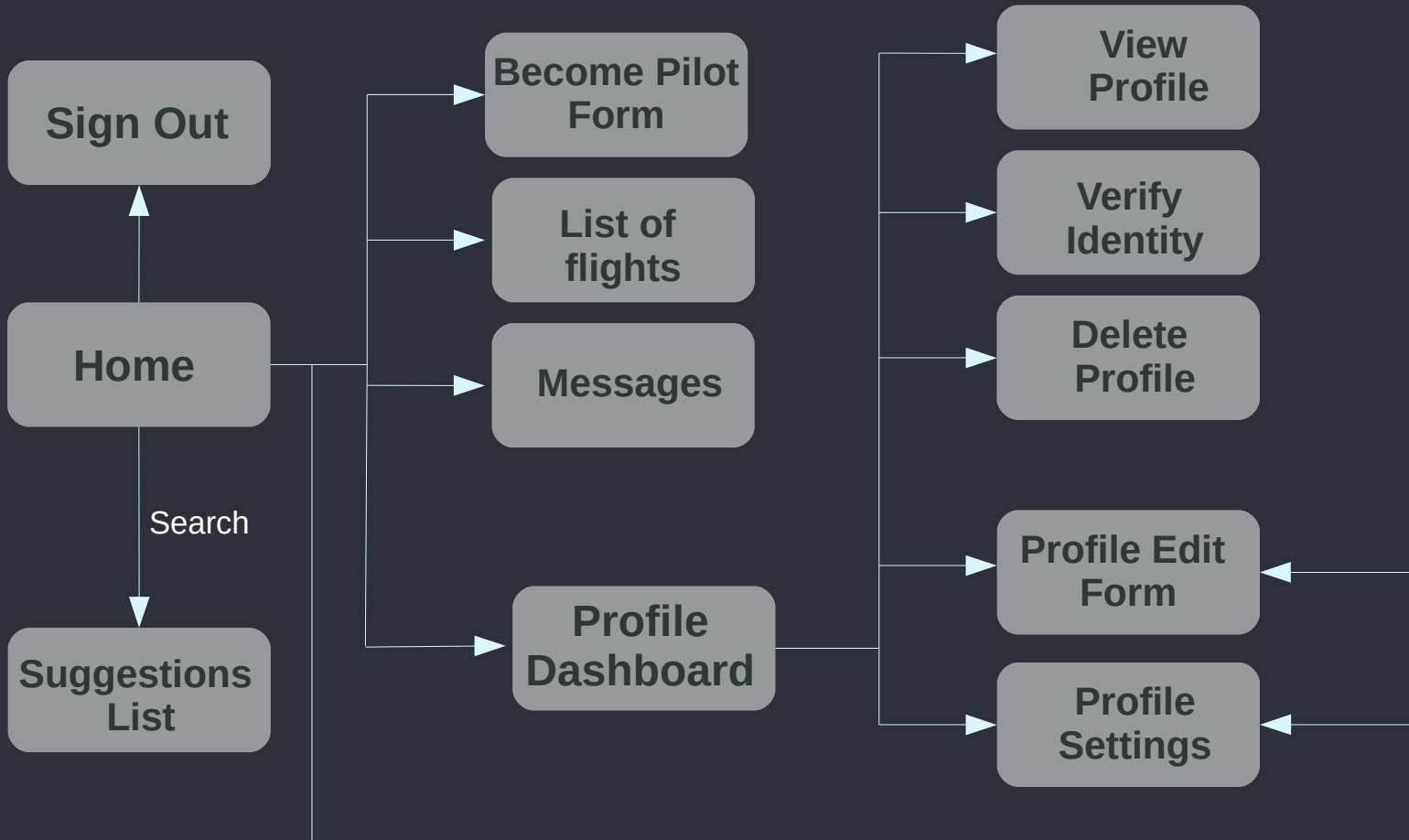
WEBSITE NAVIGATION PLAN

>Not logged-in user



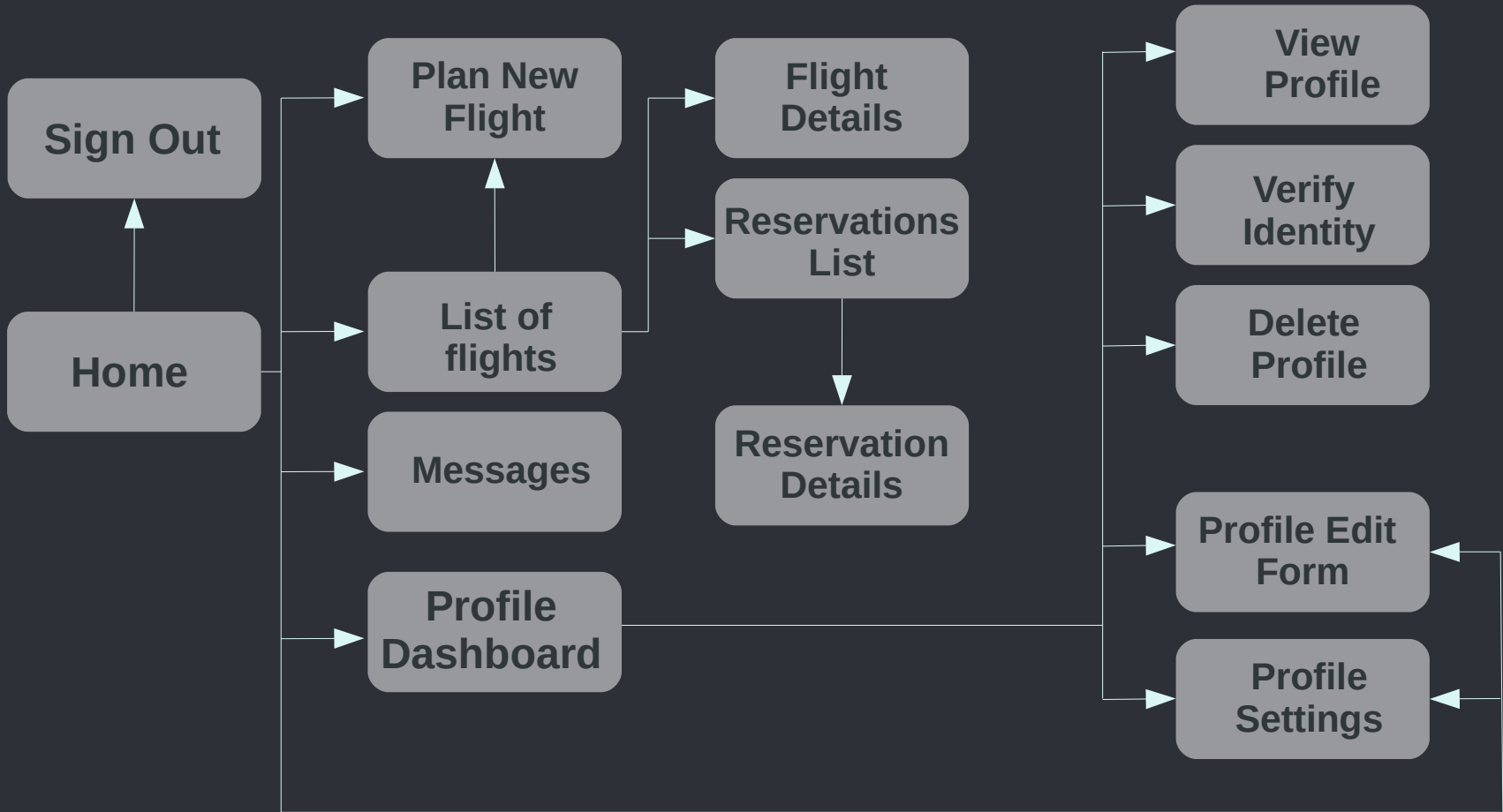
WEBSITE NAVIGATION PLAN

>Passenger Schema



WEBSITE NAVIGATION PLAN

>Pilot Schema





MOCKUPS

The following slides will show an approximative disposition of the website interfaces in the most mainstream order.

WEBSITE MOCKUPS

>Standard Home Page

Home Page

Become a pilotSign InSign Up

Welcome to Chuchufly

Search for a flight

Departure airportParis

Date

Day▼

Month▼

Year▼

Search

WEBSITE MOCKUPS

> Search Results

Results List

Date

AUG - 2016

S	M	T	W	T	F	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Price : 80€

0€

200€

number of seats

Add Filters

Adding filters

72€

From

Paris,Le Château de Vaux-Le-Vicomte et la Marne

To

Lognes-Nancy

Pilot

Léa Crochet

2H30

4 Remaining seats

Details

64€

From

Paris,Le Château de Vaux-Le-Vicomte et la Marne

To

Paris,Le Château de Vaux-Le-Vicomte et la Marne

Pilot

Marline Tang

1H

2 Remaining seats

Details

WEBSITE MOCKUPS

> Sign Up Form

Sign up

Profile type *

Pilot ▼

First name*

Last name*

Birth date*

Day

▼

Month

▼

Year

▼

Email*

password*

Sign up

WEBSITE MOCKUPS

> Sign In Form

Sign in

You are not registered yet? [register here!](#)

Email*

Password*

☒ Remember me

sign in

WEBSITE MOCKUPS

> Reservation Details

Reservations/Details

Add Flight

My flights

Messages

Profile

Dashboard

Edit

Settings

Sign out

Details Reservation

Flight

ATC Numbers

UXN 985

Departure

Amiens

Destination

Marseille

Remaining seats

05

Departure time

01 Feb 19 - 11h

Passenger

Name

Bienvenue Donko

Status

Waiting

Year old

35

Age

Joined in Dec 2018

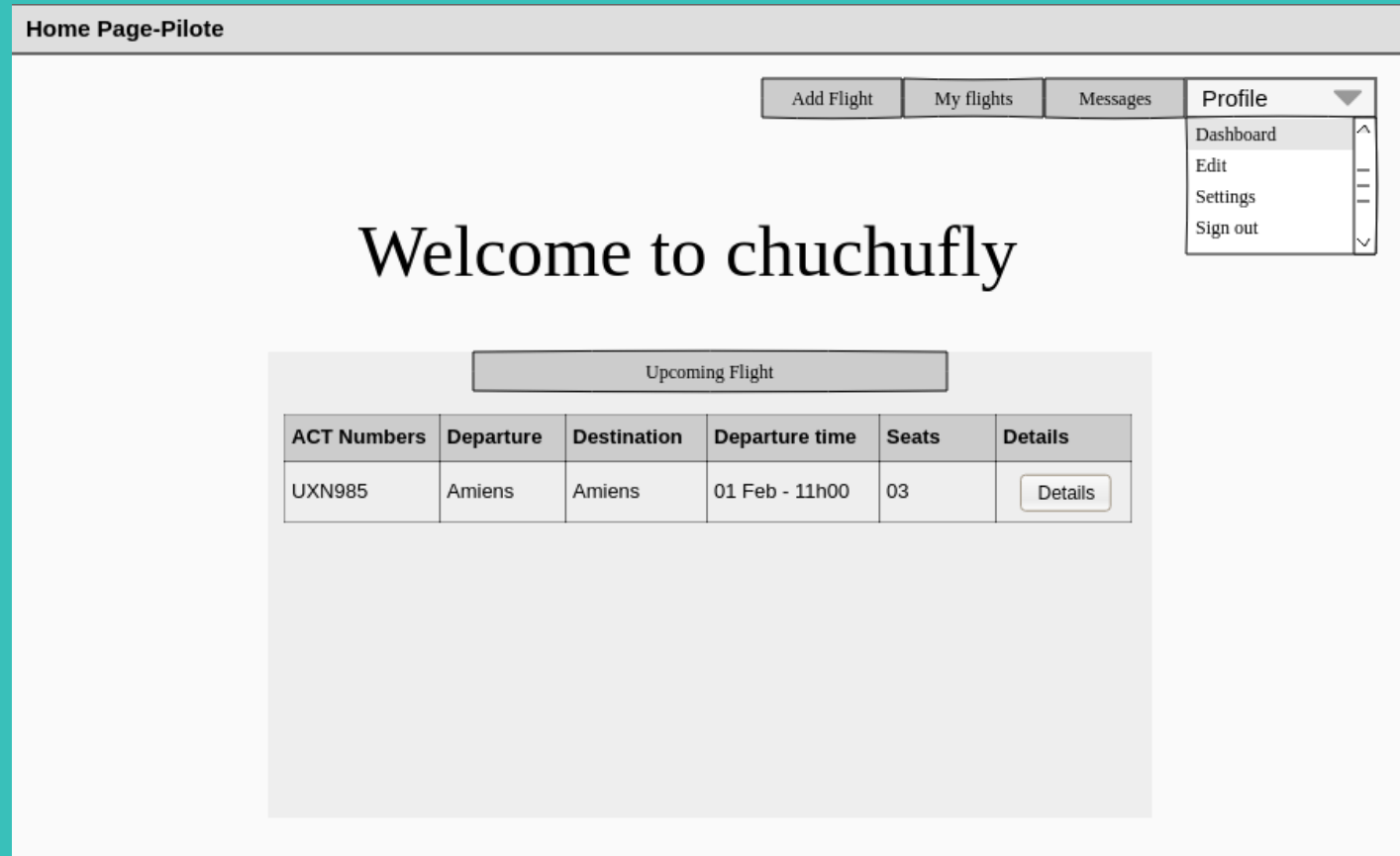
Details

Accept

Decline

WEBSITE MOCKUPS

>Pilot Home Page



WEBSITE MOCKUPS

> Booking Form

Flight Reservation

[Become a pilot](#) [My Flight](#) [Message](#) [Profile](#)

Flight Reservation

Flight

ATC Numbers
Departure
Destination
Remaining seats
Seats
Departure time

Pilot

Pilot's name
Number of flights
Year old
License type
Phone numbers

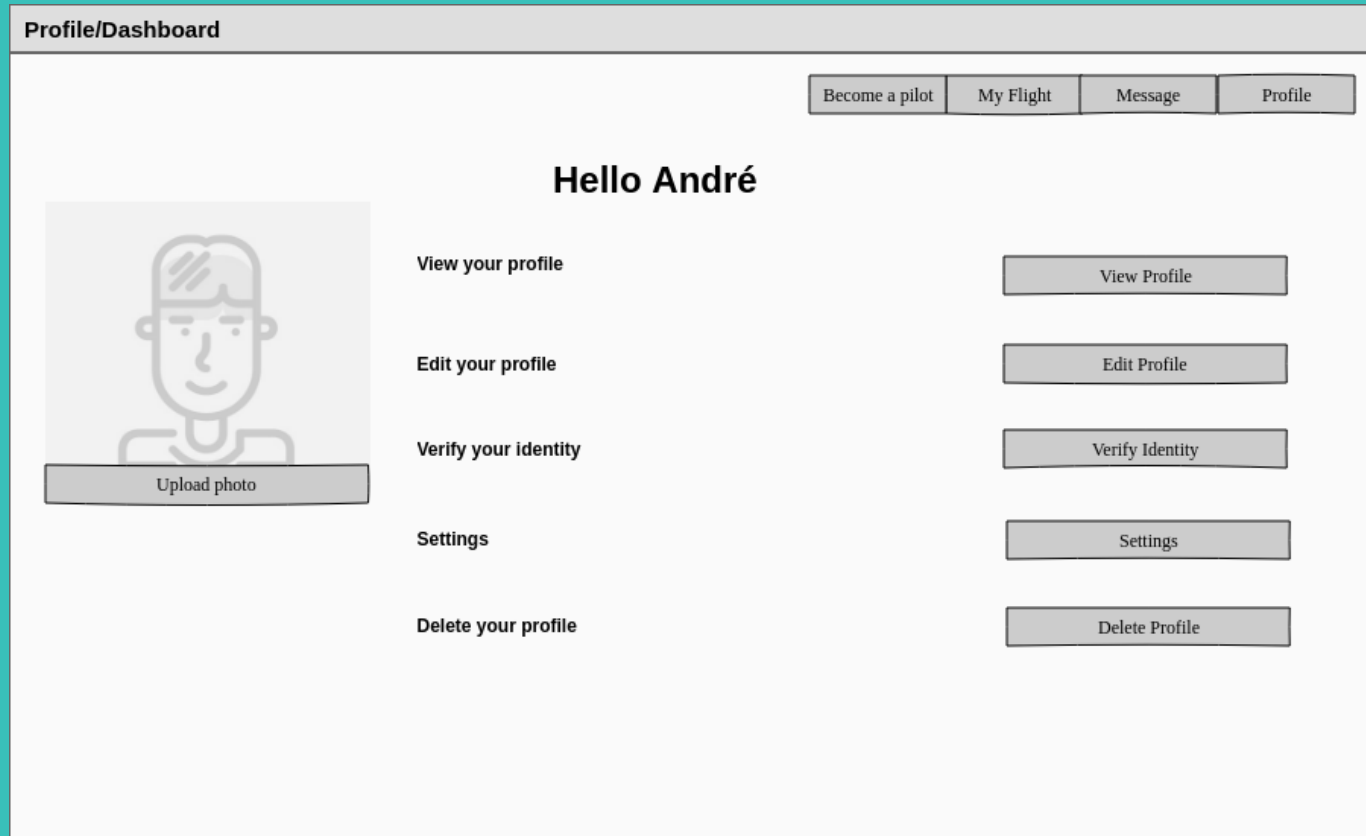
Passenger

Name
Year old
Phone number
Adresse
Number of places

Book

WEBSITE MOCKUPS

> Profile Page



WEBSITE MOCKUPS

> Become Pilot Form

Passenger/Become Pilot

[My flights](#) [Messages](#) [Profile](#)

Flight Hours : 80 h : 35 mn

Qualification : 7 years

Experience : Class 1 ▼

Licences : [Download](#)

[Save](#) [Cancel](#)

WEBSITE MOCKUPS

> Add Flight Form

Pilote/AddFlight

My flightsMessagesProfile

DashboardEditSettingsSign out

Add Flight

PlaneUXD2598

Type☐ Visit

Departure Aerodrome

Arrival Aerodrome

Date

DD

MM

YYYY

Departure Time

HH

MN

Arrival Time

HH

MN

Seats5

Price

CANCEL

SAVE

WEBSITE MOCKUPS

> Pilot Flights List

All Flights-Pilote

1

Reservations

Add Flight

2

My flights

Messages

Profile

Dashboard

Edit

Settings

Sign out

Flights

ACT Numbers	Departure	Destination	Departure time	Seats	Details
UXN985	Amiens	Amiens	01 Feb - 11h00	5	<div>Details</div>
UXN587	Meaux	Le Bourget	05 Feb - 17h45	3	<div>Details</div>

WEBSITE MOCKUPS

> Pilot Flight Details

Flight Details-Pilote

Add Flight

My flights

Messages

Profile ▾

Dashboard

Edit

Settings

Sign out

Details

Plane

ATC Numbers

Model

Number of Seats

Remaining seats

Flight

Departure

Destination

Departure time

Passengers

Passenger 1

Name

Year old

Age

Details

Passenger 2

Name

Year old

Age

Details

WEBSITE MOCKUPS

> Pilot's Reservations List

Reservations

Add Flight

My flights

Messages

Profile

Dashboard

Edit

Settings

Sign out

Reservations

ACT Numbers	Departure	Destination	Departure time	Passenger	Status	Validation
UXN985	Amiens	Amiens	01 Feb - 11h00	Bienvenue Donko	waiting	<div>Accept</div> <div>Decline</div>
UXN587	Meaux	Le Bourget	05 Feb - 17h45	Alima Wu	Picked Up	

WEBSITE MOCKUPS

> Messages Page

Pilote/Messages

Add Flight

My flights

Messages

Profile ▾

Dashboard
Edit
Settings
Sign out

Write a message

Delete Selected

<input checked="" type="checkbox"/>	<div>From: Miaouss Ouilaguerre</div> <div>Hello, can you please add me to the flight ?</div>
<input type="checkbox"/>	<div>From: Pablo Escobar</div> <div>Hello kid, still OK for the mission muchacho ?</div>
<input type="checkbox"/>	<div>From: Kepa Chelsea</div> <div>I don't want to be subsituted.</div>



Developpement basis

Before getting to code interfaces and implement the application, we strated by making a backlog in order to split the work in term of functions. We also made a list of webservices that will eventually be translated to a stub.

WEBSERVICES

TYPE	URL	BEHAVIOR
PUT	/flight	Add a flight
DELETE	/flight{ref}	Delete the flight of the corresponding reference
GET	/flight	Return the list of flights
GET	/flight{ref}	Return the details of the flight for the corresponding reference
POST	/flight{ref}	Update the details of the flight for the corresponding reference
PUT	/user	Add a pilot
PUT	/user	Add a passenger
DELETE	/user{user_id}	Delete the user of the corresponding id
POST	/user{user_id}	Modify the profile of the user for the corresponding id
GET	/user{user_id}	Return the details of the profile for the corresponding id
PUT	/reservation	Add a reservation
DELETE	/reservation{res_number}	Delete the reservation for the corresponding number
POST	/reservation{res_number}	Modify the reservation for the corresponding id
GET	/reservation{user_id}	Return the list of reservations of a specific user
GET	/reservation{res_number}	Return the details of the reservation for corresponding number
PUT	/message	Add a message
DELETE	/message{msg_id}	Delete the message for the corresponding message id
GET	/message{user_id}	Return the list of message of the user for the corresponding id
GET	/message{msg_id}	Return the details of the message for the corresponding message id

BACKLOG

Function	Description	Priority	Workload
Standard Home Page	A simple Home page with buttons allowing the user to sign in, sign up or become a pilot. In addition to a search bar to look for flight suggestion accordingly to the user's preferences.	5	4
Search Results List	After filling the departure aerodrom text field and specifying the flight date, a new interface is launched to display the corresponding flights from the database. The user can then filter the list Based on the flights cost and the number of seats.	3	3
Flight's Details	After selecting an item from the results list, a new interface shows all the necessary selected flight's details.	2	3
Sign Up Form	A form that a user fills in order to sign up and get registered in our ChuChuFly database.	4	4
Become Pilot Form	A second form that needs more information to be filled when a passenger already registered wants to upgrade to pilot status, Or a non-logged-in user to sign up as pilot at once.	3	4
Sign In Form	A simple form of email address and password to fill by the user in order to start a session.	4	4
Reservation Form	When the user finds the convenient flight, he needs to fill a new form if he'd like to book it. The user can pay for the booked seats at The moment of making a reservation or later before the flight's departure.	2	3

BACKLOG

Reservation-edit Form	A pre-filled form with the old reservation information to be updated.	2	3
Reservation List	Display of a specific user's list of reservations	2	3
Notification System	After making a reservation, the passenger has a new message Informing him that his booking is under verification and that he shall wait for a confirmation from the pilot. The pilot has also a Notification informing him of the new booking he's got to confirm or decline.	2	1
Alert System	When a notification or a message is sent to th user, a corresponding email is also sent to make sure the user is informed.	2	1
Notifications interface	A view listing the user's sent and received messages, with the Possibility of writing new ones.	2	1
Profile-edit Form	A pre-filled form with the old data to be updated with accordingly To the user's wishes	2	4
Profile Details	Display a profile details	2	4
Verify Profile	A view where the user can upload his identity to be checked and make His profile verified	3	1
Add Flight Form	A form that allows only a pilot to planify a new flight	3	4
Update Flight Form	A pre-filled form with the old flight information to be updated by the pilot.	3	4

FIRST CODING STEPS

After making a detailed analysis of the given spec and translating it to a developed list of function, we started coding our main DAO classes and stubs.



GITHUB LINK

<https://github.com/andressito/ProjetGLA2019>

List of implemented classes

Flight

FlightDAO

Plane

PlaneDAO

Reservation

**Reservation
DAO**

Message

MessageDAO

User

UserDAO

Licence

**Licence
DAO**