



Flight-sharing service

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Skyser is an online flight-sharing service. Its website connects pilots of varying degrees of experience with passengers wanting to travel to a common destination. The platform allows both pilots and passengers to share the flight-related costs involved in air travel.



users

pilot

The pilot will be able to add and modify their flights. The website will be available to them in order to manage their flights. They will have access to some of the passengers' information and can thus accept or deny their request to be on the flight.



passenger

The passenger can only use the website for browsing and booking purposes. They can create an account and also access information regarding the flights and the pilots.



guest

The user, while not yet signed up, can only search and consult future flights. The website will allow them access to flight details as well as the pilot's basic information.





business objects

Flight

ID Flight
ATC Number
Departure Location
Arrival Location
Departure Date
Arrival Date
Departure Time
Arrival Time
Number of Seats
Meeting Point

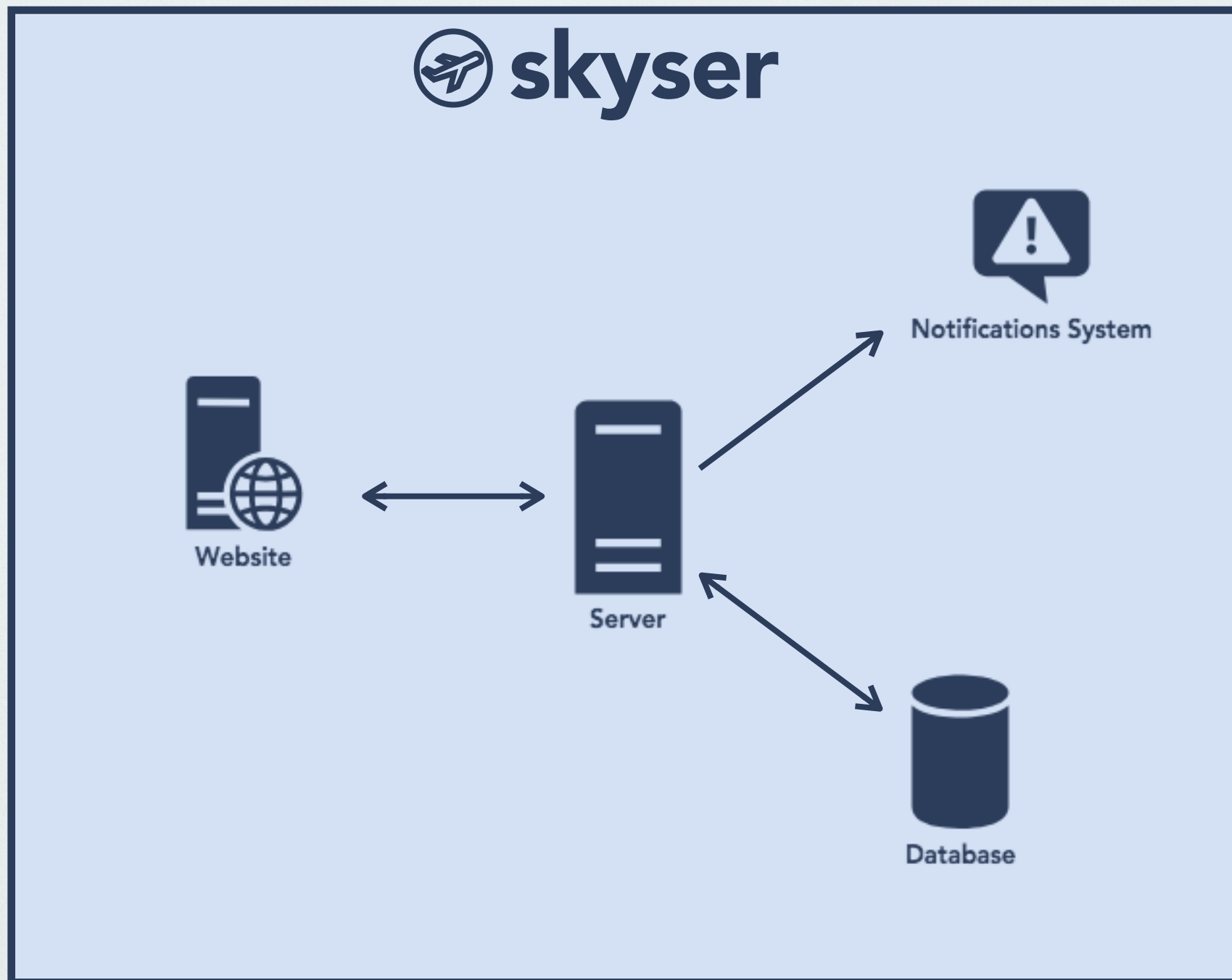
Pilot

ID Pilot
First Name
Last Name
Email
Phone Number
Home Address
Billing Information
License
Experience Hours

Passenger

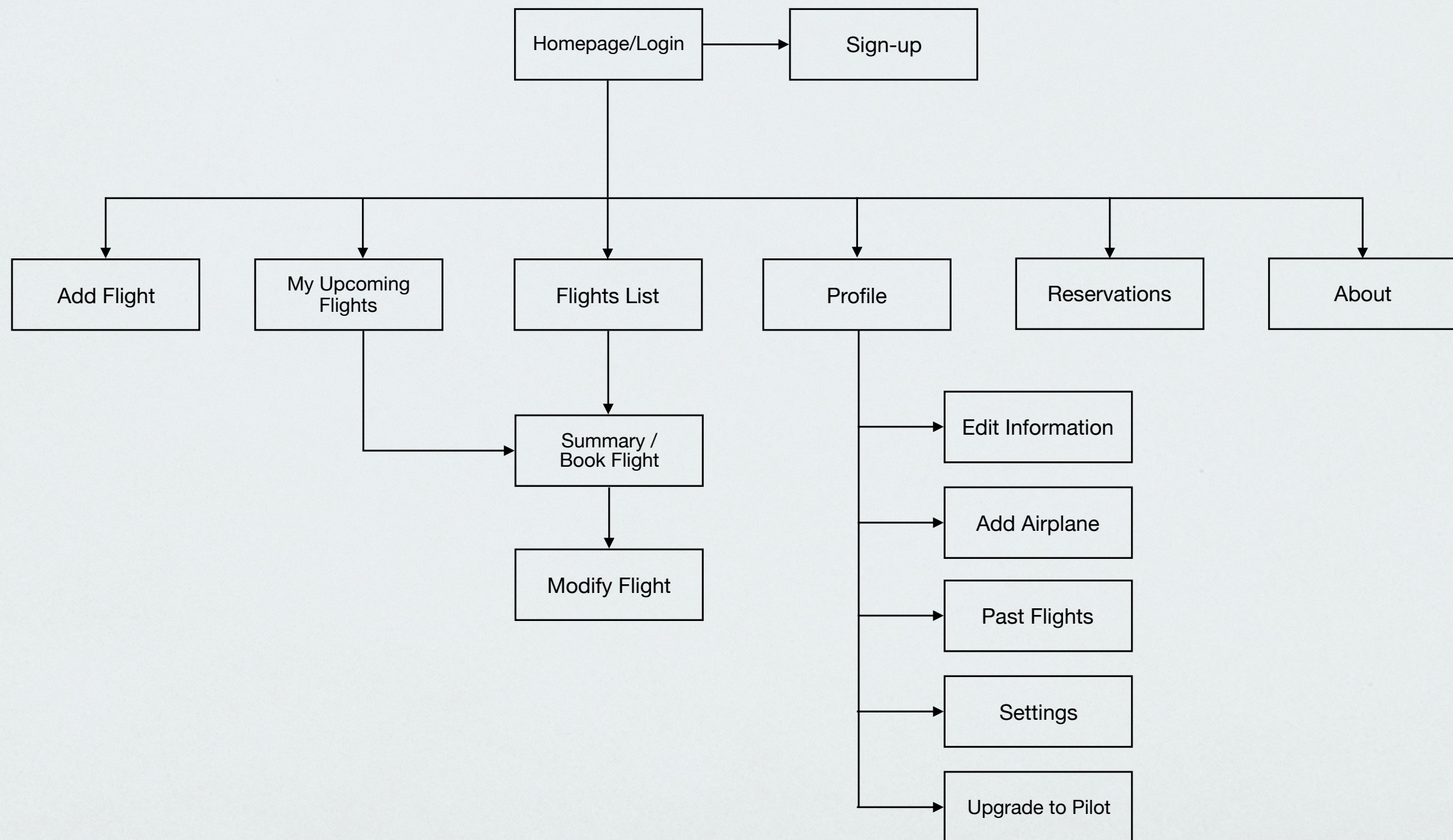
ID Passenger
First Name
Last Name
Email
Phone Number
Home Address
Billing Information

architecture





navigation diagram





backlog

| ITERATION | FEATURE | DESCRIPTION | PRIORITY | DIFFICULTY |
|-----------|-----------------------------|--|----------|------------|
| 1 | Flights List | Displays a list of flights as the result of a specific search | 5 | 4 |
| 1 | Flight Summary | Displays the details of a flight | 5 | 4 |
| 1 | Search (Homepage) | Perform a search by filling the at least 1 of the 3 necessary flight details (Departure, Arrival and Date) | 5 | 2 |
| 1 | Login / Logout | Verifies the user's email and password informations | 4 | 5 |
| 1 | Add Flight | Creation of a new flight by a pilot | 4 | 4 |
| 1 | Sign-up | Creates an account for a passenger | 4 | 4 |
| 2 | Upgrade to pilot | Upgrade a user from passenger to pilot by providing additional details specific to a pilot | 4 | 4 |
| 2 | Book Flight | Fly reservation made by a passenger | 4 | 3 |
| 2 | Reservation decision | Email notification of a confirmation or refusal of a pre-booked flight | 4 | 2 |
| 2 | Profile | Displays profile details for both passengers and pilots | 3 | 5 |
| 2 | My past Flights | Displays a list of past flight the user (pilot or passenger) took part in | 3 | 4 |
| 2 | My upcoming Flights | Displays list of future flights that a passenger or pilot has booked | 3 | 4 |
| 2 | Cancel Booking (Passenger) | Cancellation of a flight booked by a passenger | 3 | 4 |
| 2 | Cancel Booking (Pilot) | Cancellation of a flight booked by a pilot | 3 | 4 |
| 2 | My upcoming Flights (Pilot) | Displays list of future flights that a pilot has planned | 3 | 4 |
| 2 | Modify Flights | Modifies information regarding a flight planned by a pilot | 3 | 3 |
| 2 | Cancel Flight | Cancellation of an entire flight by a pilot | 3 | 2 |
| 3 | Edit Profile | Modifies information regarding a registered user (pilot or passenger) | 2 | 4 |
| 3 | Delete Account | Deletes the current account from the system | 1 | 4 |
| 3 | Missing info verification | Verification of missing information that needs to be completed about a specific flight | 1 | 4 |
| 3 | Email Alert | Notifies passengers whether their flight was confirmed or rejected | 1 | 2 |



web services

| type | url | behavior |
|--------|-----------------------------------|---|
| GET | /flights_list | returns the list of flights from a search |
| GET | /flights_list/flight_summary/{id} | returns details of flight with the corresponding "id" |
| POST | /sign_up | creates a new user (passenger) |
| POST | / | verifies the users login information |
| POST | /add_flight | creates a new flight |
| POST | /flights_list/flight_summary/{id} | makes reservation of a flight with the corresponding "id" |
| PUT | /profile/upgrade | makes the passenger into a pilot |
| DELETE | /profile/settings | deletes account of a registered user |
| DELETE | /flights_list/flight_summary/{id} | deletes a flight with the corresponding "id" |
| DELETE | /upcoming/flight_summary/{id} | deletes a booked flight with the corresponding "id" |