

Flight Rest API:

I propose a REST API based on the Django Rest Framework providing Flight details for authorised API clients to access and query flight information such as pilots, travel agents, flights departing and flights arriving from one location to a destination.

Semantic Descriptors:

- List of Flights
- Flight
- List of Pilots
- Pilot
- Position
- List of Travel Agents
- Travel Agent

- List of Flights

- Flight
- Flight number
- zone
- passengers
- flying from
- flying to
- terminal number
- departure date
- arrival date
- status

- List of Pilots

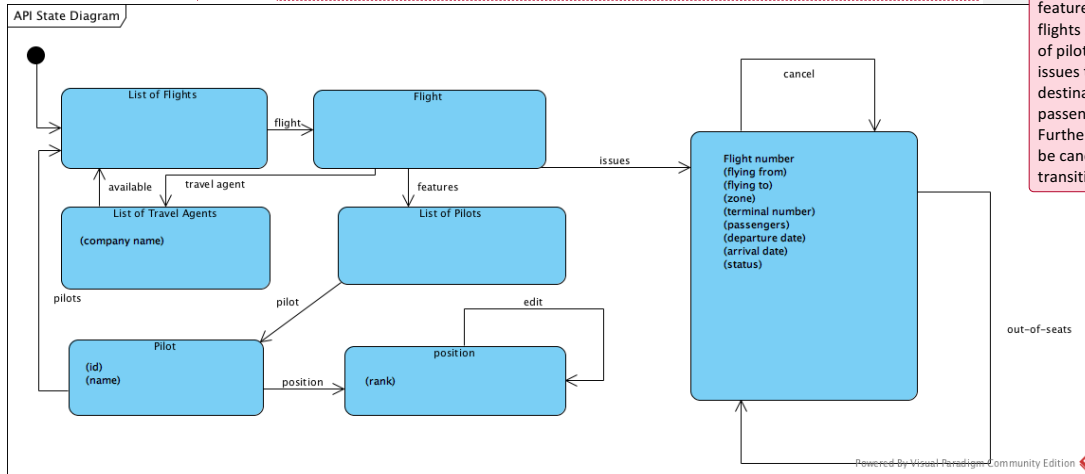
- Pilot
- id
- name
- position
- rank ("captain" or "co-pilot")

- List of Travel Agents

- Travel Agent
- company name
- flight fares
- baggage allowance

Comment [HAT1]: My idea was to provide a list of flights that would contain flight information such as flight number, zone, passengers, flight origin and flight destination, departure date, arrival date and flight status. In addition to, such flights would possess a list of pilots that each are distinguished by their id number and name and hold a position of a certain rank. Also, each flight would detail a list of travel agents who are differentiated by their individual company name such that they permit a baggage allowance and sell flight tickets at a certain fare price.

API State Diagram:



Comment [HAT2]: This is my API State Diagram that features the relevant semantic descriptors such as list of flights such that a Flight can be booked and can feature a list of pilots who pilot each individual flight. Moreover, flight issues the attributes flight number, flight origin, flight destination, zone number, terminal number, number of passengers, departure date, arrival date and flight status. Furthermore, flight may be out of seats and also a flight may be cancelled. In addition, the methods below relate to the transition from each state to the other state.

List of methods:

flight (safe)
travel agent(safe)
pilot(safe)
position(safe)
edit(unsafe, non-idempotent)
out-of-seats(unsafe, idempotent)
cancel(unsafe, idempotent)
available(safe)
features(safe)

Login Details:

User name: admin
Password: password123

Github clone url:

[flightapp-hussein.apps.devcloud.eecs.qmul.ac.uk](https://github.com/HusseinTejan/flightapp-hussein.apps.devcloud.eecs.qmul.ac.uk)