



Rig Advisor

RigAdvisor

A system for all of Oil and Gas:
Rig Workers, Oil Companies and Flight Operators

1

I was given the brief to build an app to track someone's travel adventures.

2

Oilfield workers need a way to track their trips effectively and record where they'd like to work

3

Oil Companies need to keep track of the oil workers on their rigs

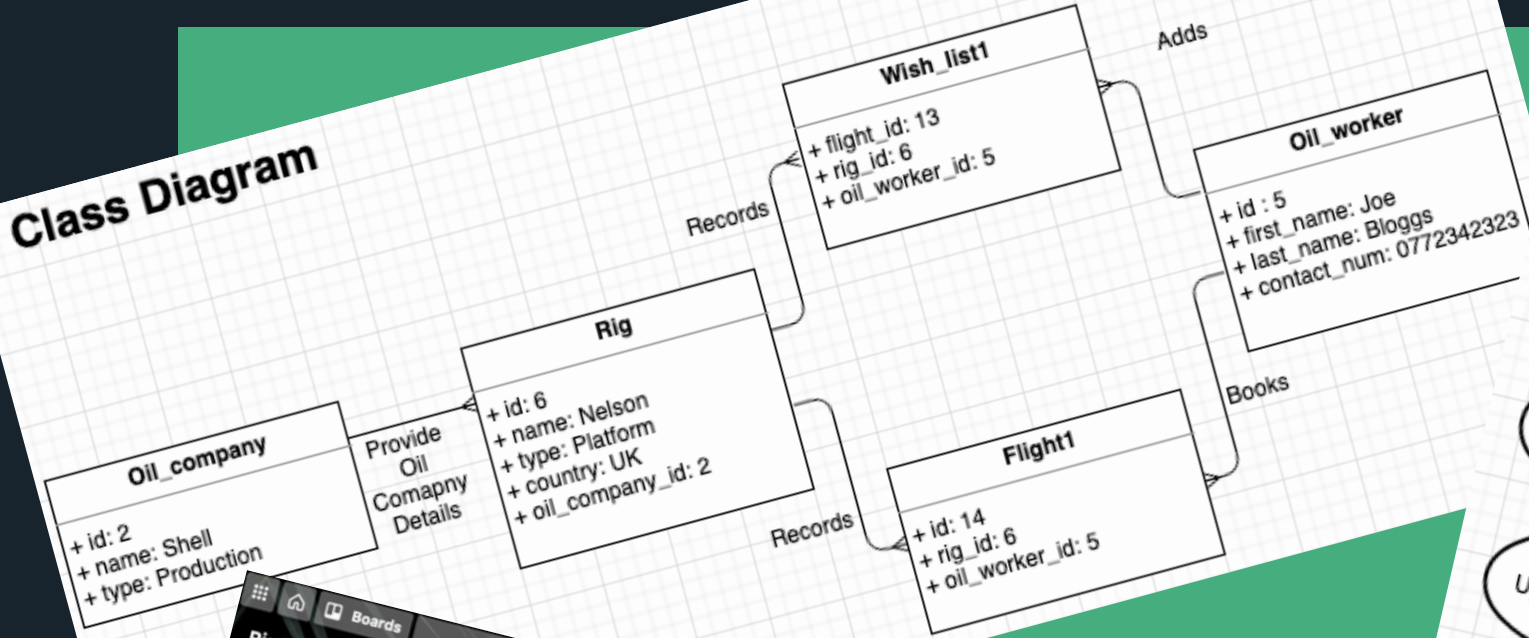
4

Flight operators need to track which workers go to which rigs

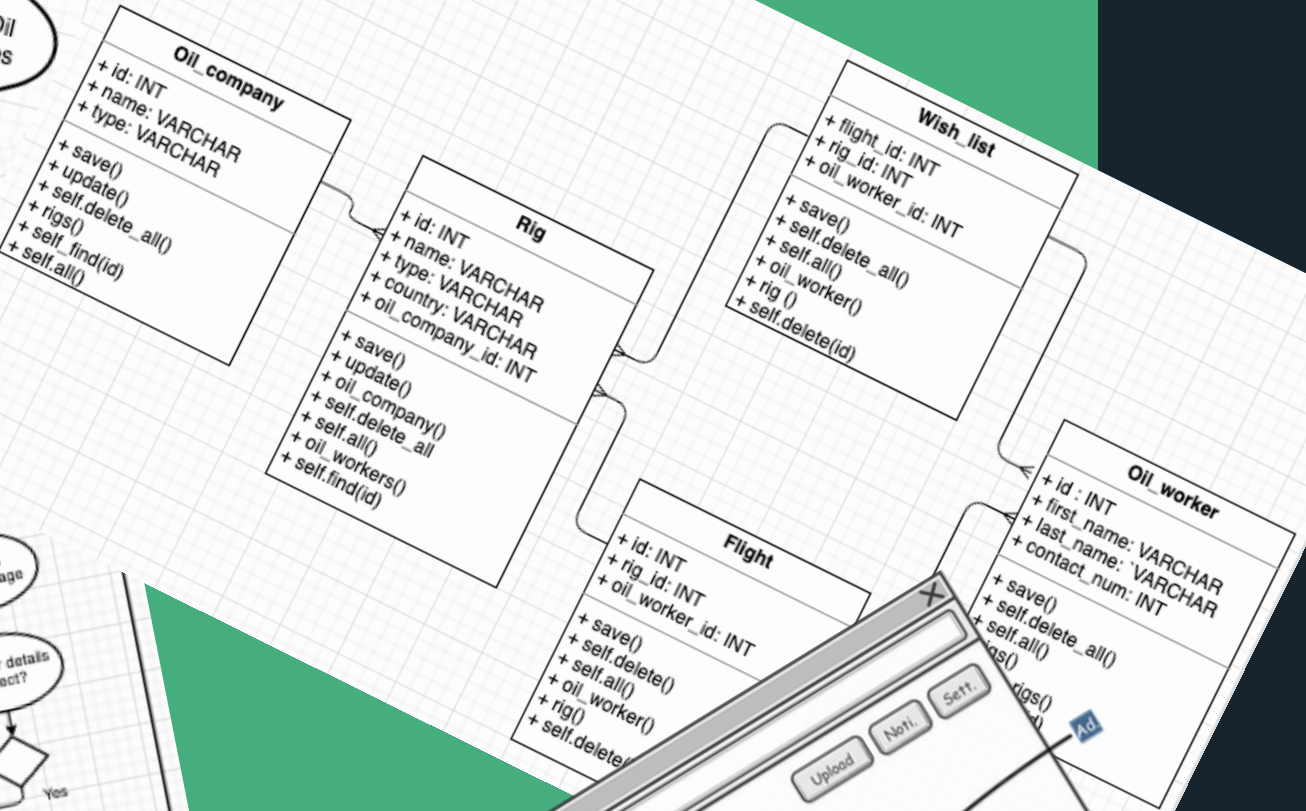
Brief

Planning

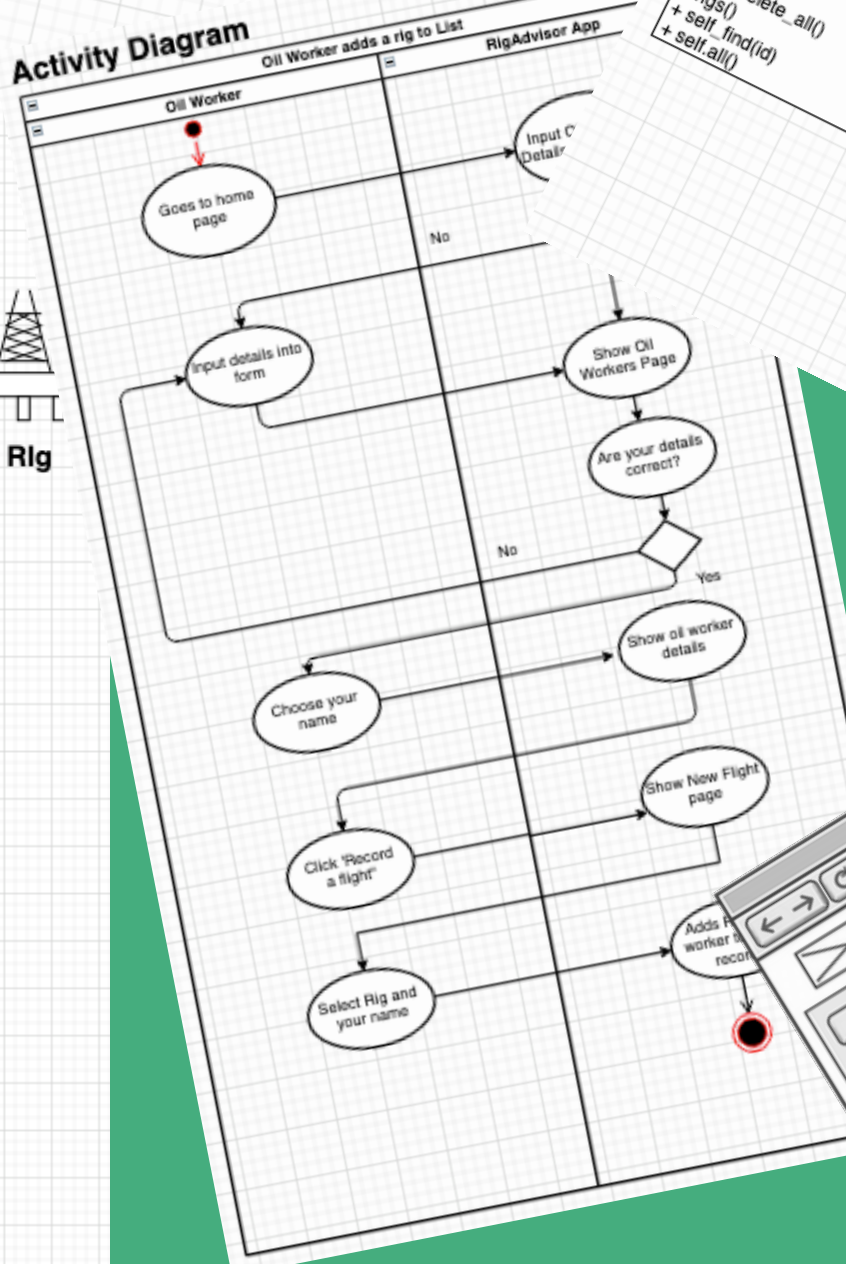
Class Diagram



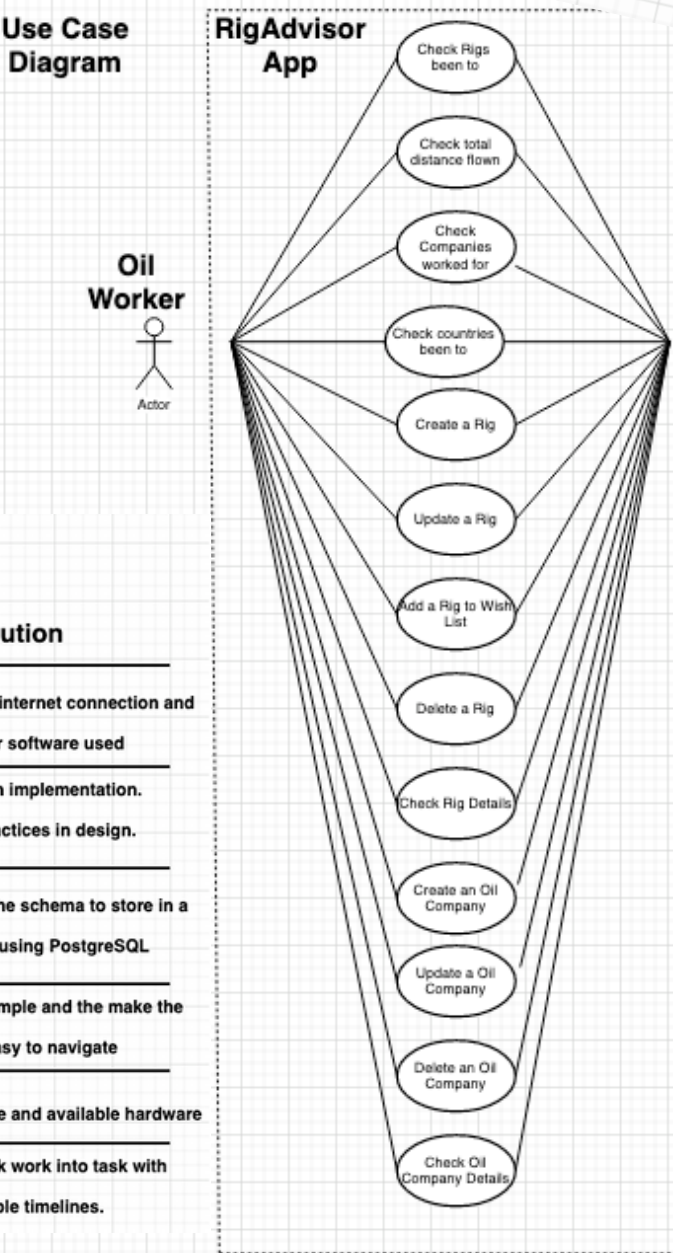
Object Diagram



Activity Diagram



Use Case Diagram



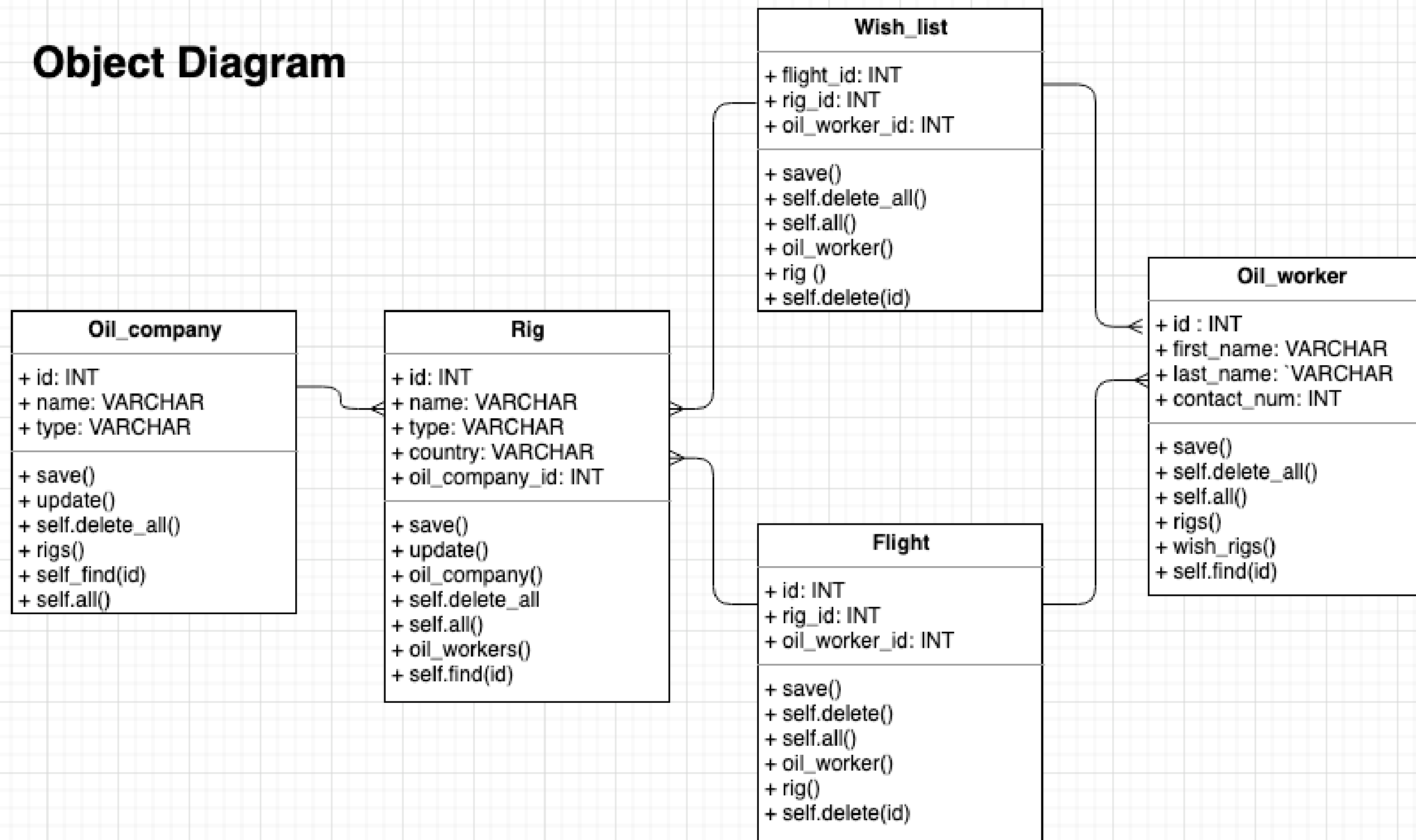
Implementation Constraints Plan

Constraints Category	Implementation Constraints	Solution
Hardware and Software Platform	User will need a basic display with a browser	Basic computer with internet connection and free browser software used
Performance Requirements	App must check rigs that workers have been on and be able to display rig details quickly	Not wasteful in implementation. Used best practices in design.
Persistent Storage and Transactions	A database is needed so that we can store all the details of the rigs, the workers, the oil companies, the flights and the wish lists.	Make clear table in the schema to store in a local database using PostgreSQL
Usability	Clean UX design so user knows their options	Keep the website simple and the make the interface easy to navigate
Budget	No budget	Use only free software and available hardware
Time	6 days	Use Trello to break work into task with manageable timelines.

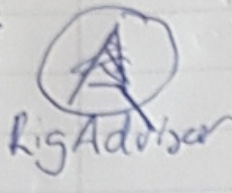


Planning

Object Diagram



NAV BAR



Rig Adviser

Rigs | Companies | Countries | Flights

Rigs (add a rig)

ID	Type	Country	Oil Company	Rig	REMOVE	I WANT TO GO	Distance *
1	Semi	UK	Shell	Nelson	BEEN HERE!	EDIT	100 miles
2	Platform	UK	Shell	Sharnwater	BEEN HERE!	EDIT	200 miles
3	Jack Up	Norway	Equinor	Heidrun	BEEN HERE!	EDIT	80 miles
4		Denmark	Maersk	Star Dan	BEEN HERE!	EDIT	70 miles
5		Holland	Wintershall	FLG-A			80 miles
6		UK	BP	ETAP			65 miles

Companies

BP - ETAP (UK) PRODUCER

Star - Clair (UK)

- Andrew (UK)

SHELL - Sharnwater (UK) EXPLORER (DRILLING)

- Nelson (UK)

Equinor - Heidrun (NORWAY) PRODUCER

Custom Rig Workers

ID	Last Name	First Name	Contact Number	Total Flights	Around the world	gif image
1	HUGHES	RONAN	07768890	12	0.7	EDIT FLIGHTS
2	ADAIR	LEO	01224578	30	2.3	DELETE
3	WAHLBERG	MARK	07769854	2	0.1	
4	PLAINVIEW	DANIEL	02830721	5	0.2	
5	WILLIS	BRUCE	07729	50	3	

Planning

DEMO



Favourite bit of code

```
<h3>
  <%= @oil_worker.first_name %> has been on
  <%= @oil_worker.rigs.length %> trips and has travelled
  <%= @oil_worker.distance_travelled*2 %> miles. That's
    <%= sprintf("%.2f", @oil_worker.distance_travelled/137.to_f) %> times the length of Scotland!
    
</h3>
```

Any Questions?

Thank You!