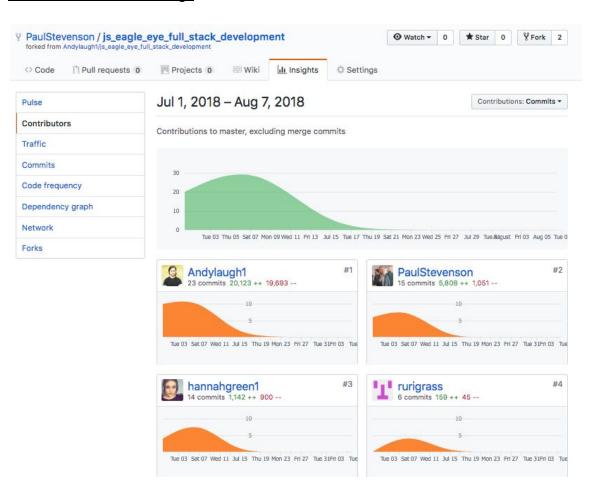
Project Unit

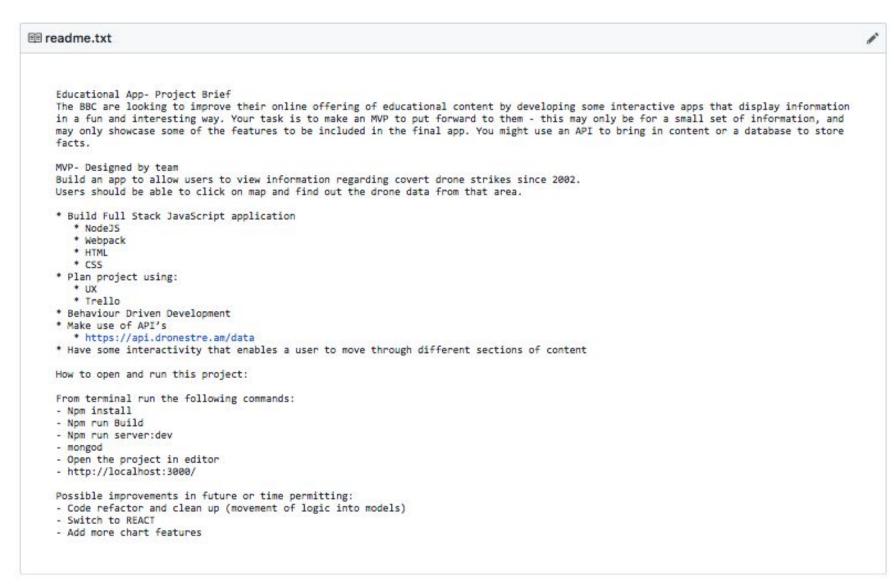
Paul McPhail Stevenson

Cohort E21

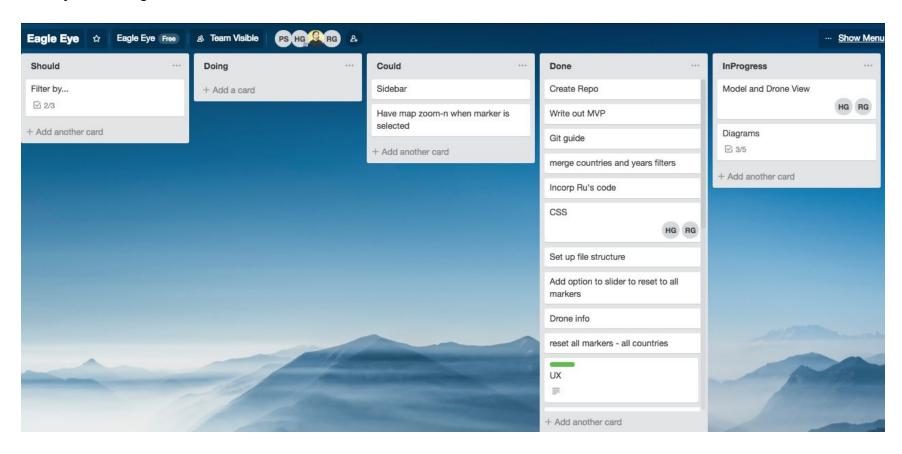
P 1 Github Contribution Page



P 2 Project Brief



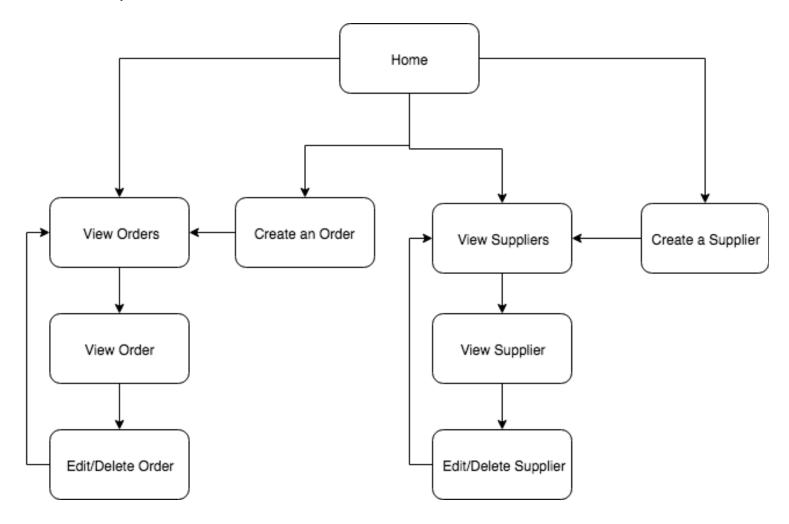
P 3 Project Planning



P 4 Acceptance Criteria and Test Plan

Acceptance Criteria	Expected Result	Pass	
A user should be able to open and view the app	Webpage successfully loads with the map rendering the all the markers. Content should populate in the appropriate containers.	Pass	
A user should be able to select a marker on the map, changing to the content displayed.	Clicking the marker populates the the 'Strike Info' container, and 'Conflict History' container specific to the data attached to the marker .	Pass	
A user should be able to choose a specific country from the dropdown menu.	The map should zoom into the chosen country.	Pass	
A user should be able to use the slider showing the chronological order of drone strikes.	The markers should render on the map in chronological order using the Date Key provided by the API using the slider.	Pass	
A user should be able to reset the map to the default view	Clicking the reset button should recentre the map, and re-populate the markers.	Pass	

P 5 User Site Map

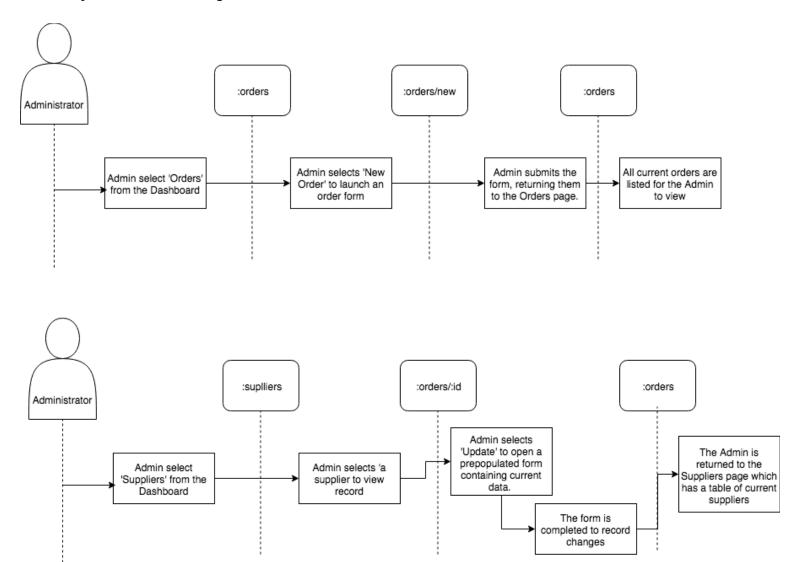


P 6 Two Wireframe Designs

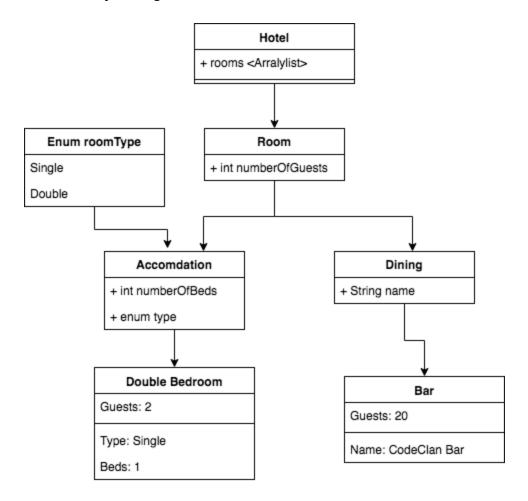




P 7 Two System Interaction Diagrams

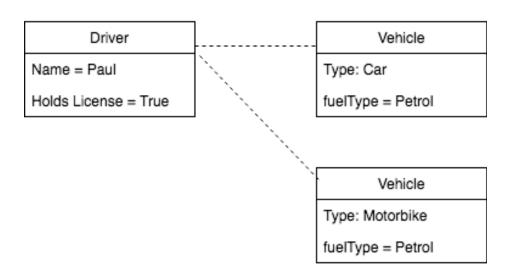


P 8.1 Two Object Diagrams



P 8.2 Two Object Diagrams





P 9.1 Select Two Algorithms

To the right, the array films contains film objects which contain a title, genre, release date and runtime.

The below algorithm loops through the array to pull the film titles. Instead of a for loop, enumeration was used with the map() method.

```
const Cinema = function (films) {
  this.films = films;
};

Cinema.prototype.filmTitles = function () {
  const titlesArray = this.films.map((film) => {
    return film.title;
  });
  return titlesArray;
};
```

```
beforeEach(function() {
 moonlight = new Film('Moonlight', 'drama',
   2016, 111);
 bladeRunner = new Film('Blade Runner 2049',
   'sci-fi', 2017, 164);
 dunkirk = new Film('Dunkirk', 'history', 2017,
   96);
 blackPanther = new Film('Black Panther',
   'action', 2018, 134);
 trainspotting = new Film('T2 Trainspotting',
   'drama', 2017, 117);
 films = [moonlight, bladeRunner, dunkirk,
   blackPanther, trainspotting];
 cinema = new Cinema(films);
});
```

P 9.2 Select Two Algorithms

The second algorithm uses the filter() method sort through the array of film objects based on a specific property. For example, the array could be looped through sorting the data by genre.

```
Cinema.prototype.filmsByProperty = function
  (property, value) {
  const objectArray = this.films.filter((film) => {
    return film[property] === value;
  });
  return objectArray;
};
```

P 10 Pseudocode for a function

```
@Override
public int calculateTotalPurchaseCost() {
    return this.purchaseCost + this.additionalCost;
}
/* calculateTotalPurchaseCost() should take in the object properties (purchaseCost and additionalCost)
    It will add these two properties together
    The result will equal the total amount spent of purchasing the object.
```

*/

P 11 Solo Project with Github Link

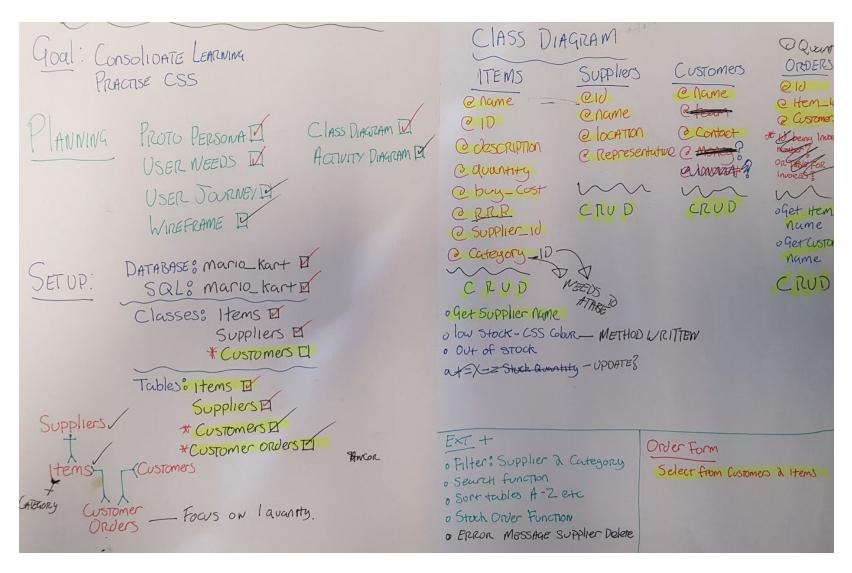
https://github.com/PaulStevenson/project_mariokartshop_ruby_sql_html_css

```
Project
                                          x v item.rb
                                                                                                                                              index.erb
                                                                                                                                                                    X
                                             require_relative('../db/sql_runner')
     items_controller.rb
     orders_controller.rb
                                             require_relative('supplier')
                                             require('pry-byebug')
     suppliers_controller.rb
      mario_kart.sql
                                             class Item
     seeds.rb
                                              attr reader :id, :name, :description, :purchase cost, :rrp, :category, :supplier id
     sql_runner.rb

✓ ■ models

                                              attr accessor :quantity
     customer.rb
     Titem.rb
                                              def initialize(options)
     order.rb
                                               @id = options['id'].to_i if options['id']
     y supplier.rb
                                               @name = options['name']
                                               @description = options['description']
   public public
                                       14
                                               @quantity = options['quantity'].to i
   > public
      3 style.css
                                               @purchase cost = options['purchase cost'].to i
 > specs
                                               @rrp = options['rrp'].to i
                                               @category = options['category']
   views
                                               @supplier_id = options['supplier_id'].to_i
    customers
        edit.erb
                                              end
        index.erb
        new.erb
                                              def save()
        show.erb
                                               sql = TNSERT INTO items (
                                               name, description, quantity, purchase_cost, rrp, category, supplier_id)
                                               VALUES ($1, $2, $3, $4, $5, $6, $7)
                                               RETURNING id'
     suppliers
        P edit.erb
                                               values = [@name, @description, @quantity, @purchase_cost, @rrp, @category, @supplier_id]
        index.erb
                                               item = SqlRunner.run(sql, values)[0]
        new.erb
                                               @id = item['id'].to_i
                                              end
        show.erb
                                                                                                                ii 1 LF UTF-8 Ruby on Rails 1/2 master □ Fetch 1 0 files 1 3 updates 1
models/item.rb 1:1
```

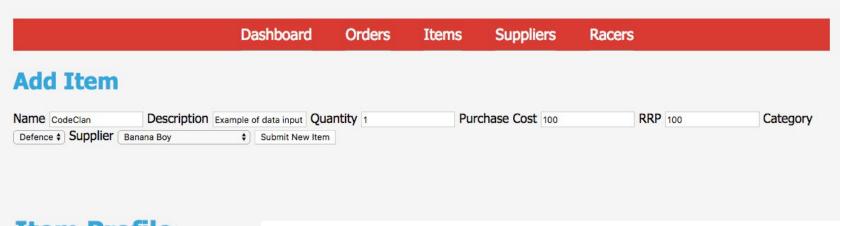
P 12 Project Planning with changes



P 13 Processing User Input

DRONE STRIKE!!!

P 14 Data Persistence



Item Profile

Item: CodeClan

Description: Example of data input

Quantity: 1

Purchase Cost: 100

RRP: 100

Category: Defence

Supplier: Banana Boy

Update Item

Delete Item

P 15 Show the correct output of results and feedback to user.

The delete button removes a racers profile from the table 'Existing Racers'

Racer Profile

New Order

Name: Paul

Contact: 0776

Update Racer

Delete Racer

Exisiting Racers

New Racer

Name	Show Racer	
Mario	Show Racer	
Bowser	Show Racer	

P 16 Use of an API

The code that uses or implements the API

```
Project
                                             server.js
                                                                   ×
                                                const express = require('express');
GroupProject EagleEye
                                                const app = express();
  a client
                                                const path = require('path');
v server
                                                const parser = require('body-parser');
  ∨ m DB
                                                const MongoClient = require('mongodb').MongoClient;
       seeds.js
                                                const createRouter = require('./helpers/create router.js');

✓ ■ helpers

                                                const fetch = require('node-fetch');
       create_router.js
     server.js
                                          8
                                                const publicPath = path.join( dirname, '../client/public');
  .gitignore
                                                app.use(express.static(publicPath));
  gitInstructions.txt
  nackage-lock.json
                                                app.use(parser.json());
  package.json
  readme.txt
                                                app.listen(3000, function(){
  webpack.config.js
                                          14
                                                 console.log(`listening on port ${ this.address().port}`);
                                                });
                                                app.get('/api/drones', (req, res) => {
                                          18
                                                 const url = 'https://api.dronestre.am/data';
                                          19
                                                 fetch(url)
                                                  .then(jsonData => jsonData.json())
                                                  .then(data => res.json(data)); // MODIFIED
                                          24
                                               });
```

 The API being used by the program whilst running DRONE APP OPEN

P 17 Bug Tracking Report

<u>Test</u>	<u>Fail</u>	Solution	Pass/Fail
Should be able to render markers on the map			Pass
Clicking a marker should populate the 'Drone Strike' info view			Pass
The slider should show the the markers rendering in chronological order	Failed	Formatted the Date key from the API so that it could be used more effectively	Pass
Selecting a country from the dropdown menu should zoom the map into that country	Failed	Seperated the map and marker rendering methods	Pass
The reset button should reset the map to default	Failed	Set the event to re-render the map zoom to centre	Pass

P 18 Demonstrate Testing In A Programme

