

# PDA - Project Unit CodeClan Course Evidence

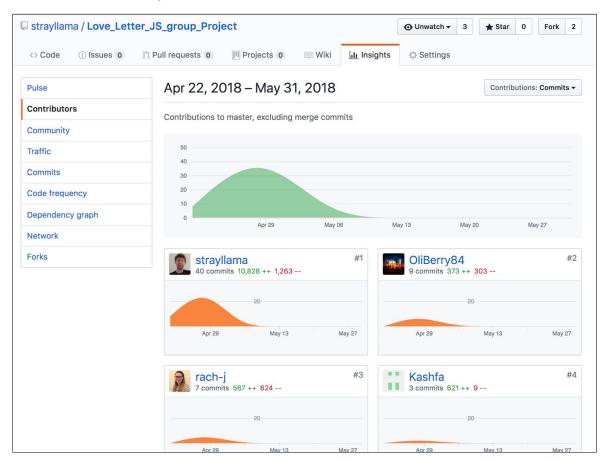
12.03.2018

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## P 1

• Take a screenshot of the contributor's page on Github from your group project to show the team you worked with.



## P 2

• Take a screenshot of the project brief from your group project.

#### **JavaScript Project Specs**

#### Situation

5 day Group project, after 3 weeks learning JavaScript. Paul, Oli, Rach, Kash. aka team PORK.

### **Browser Game**

Create a browser game based on an existing card or dice game. Model the game logic and then display it in the browser for a user to interact with.

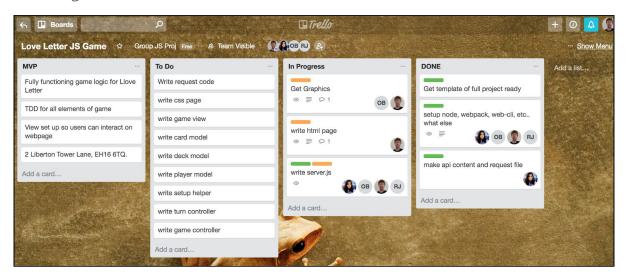
Make your own MVP with some specific goals to be achieved based on the game you choose to model.

#### Make 4 player text based game logic and function work, of Love Letter!

You might use persistence to keep track of the state of the game or track scores/wins. Other extended features will depend on the game you choose.

## P 3

Provide a screenshot of the planning you completed during your group project,
 e.g. Trello MOSCOW board



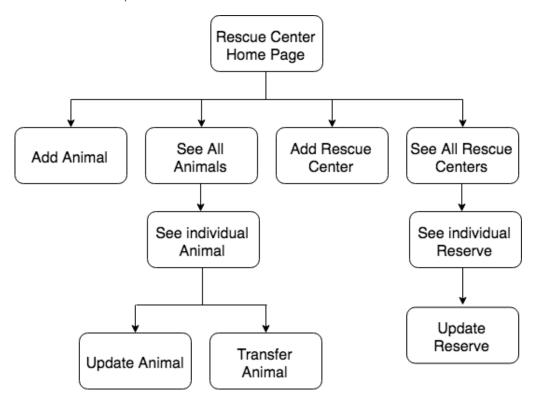
# P 4 - An Acceptance Criteria and Test Plan.

Acceptance Criteria	Expected Result/Output	Pass/Fail
Clicking Start to initiate game	Text input boxes for names, change to labels with same contents. First players cards show	Pass
Running out of deck cards ends the game	When more than one player is alive and the next go can't be played to to empty deck, the winner should be announced and be the	Pass

	player with highest value card	
User can choose one of the two cards to play	The chosen card's action should be carried out. The other card is discarded	Pass
Played cards should be discarded	A discarded card should appear on the discard pile - even if its not been used but the result of the action of another player's card	Pass
Certain cards mean the player has no choice of which card to play	When Countess is in hand with king or prince, the king or prince must be the only card playable.	Pass
Player can win by killing all other players	If there is only one active player, they automatically win, regardless of card in hand and if the deck has cards left or not	Pass

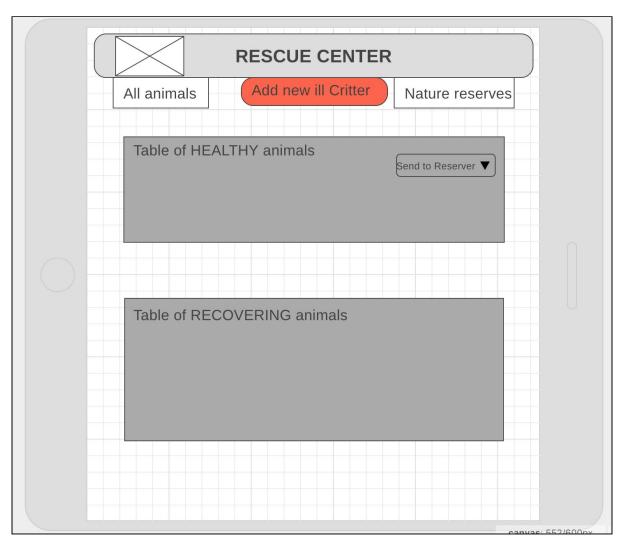
# P 5 - Create a user sitemap

• A Site map:

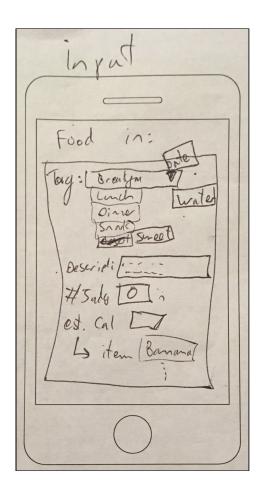


# P 6 - Produce two wireframe designs

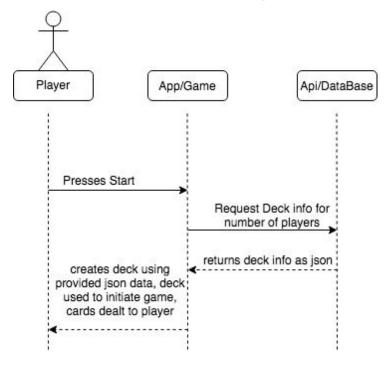
• Wire Frame 1:



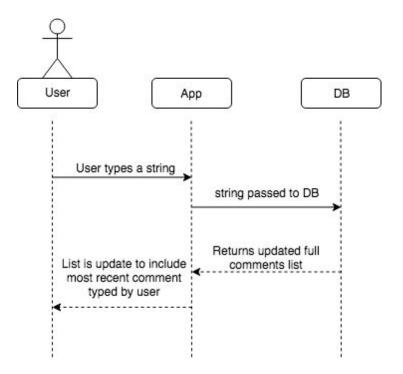
• Wire Frame 2:



# P 7 - Produce two system interaction diagrams



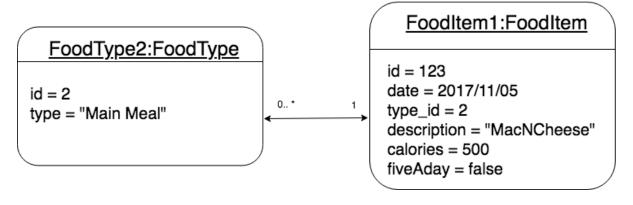
Game being started



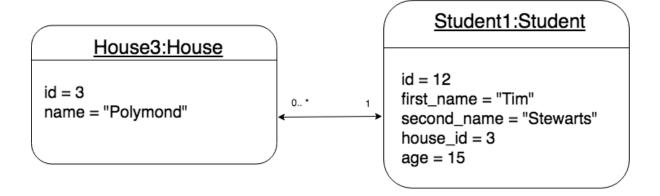
Web App chat list page, on comment input.

# P 8 - Produce two object diagrams:

• FoodItem Object:



Student Object:



## P 9

• Select two algorithms you have written (NOT the group project). Take a screenshot of each and write a short statement on why you have chosen to use those algorithms.

```
public String countWords(String stringOfWords) {
   String[] words = stringOfWords.split("\\s+");

for (int i = 0; i < words.length; i++) {
     // This replaces all no a-z_A-Z_0-9 with nothing, i.e. removes punctuation.
     words[i] = words[i].replaceAll("[^\\w]", "").toLowerCase();
     if (wordListCounted.containsKey(words[i]) == true ) {
        int oldcount = wordListCounted.get(words[i]);
        int newcount = oldcount + 1;
        wordListCounted.put(words[i], newcount);
     } else {
        wordListCounted.put(words[i], 1);
     }
}</pre>
```

This algorithm takes a string of words input, and outputs a hashmap of unique words as keys with their count as the value. Without it there is no good way to actually get the number of times each word is used in the sentence. Any string can be input, it's repeatable and effcient.

This one maps over an array this.props.buttons and returns an object <GameButton> for each item in the array. I used it as the action is repeatable, so saves writing it out many time, but also now doesn't rely on you knowing how many are being input, just that the format is the same.

## P 10 - A screenshot of an example of pseudocode for a function:

```
■ sudo_code.txt

1 Method called pick random card, input an ArrayList of Card objects.

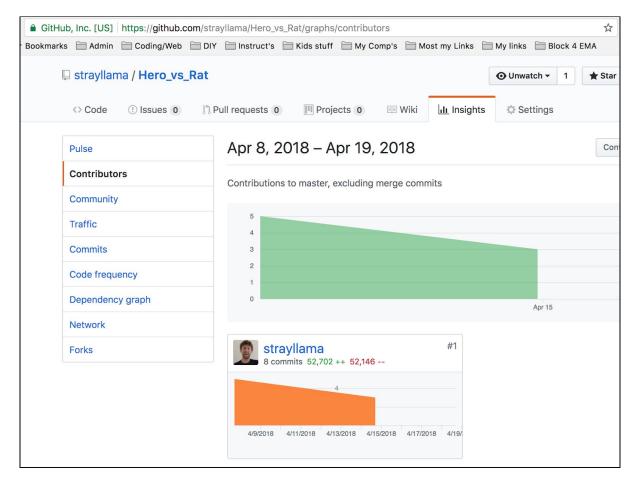
2 Create new local variable of type Random called rand

3 Initialise rand and use 0 to length of input ArrayList as limiter for range of numbers.

4 return object from ArrayList of index rand.
```

#### P 11

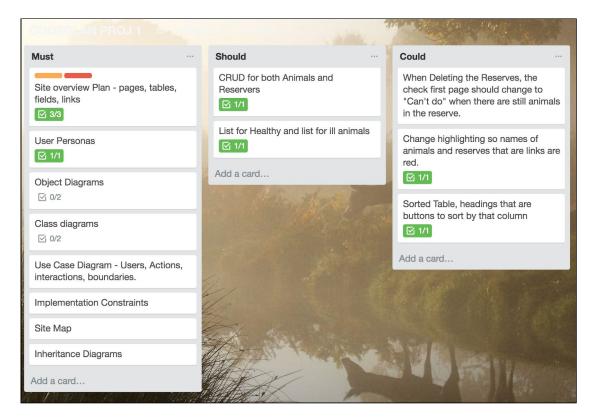
• Take a screenshot of one of your projects where you have worked alone and attach the Github link:



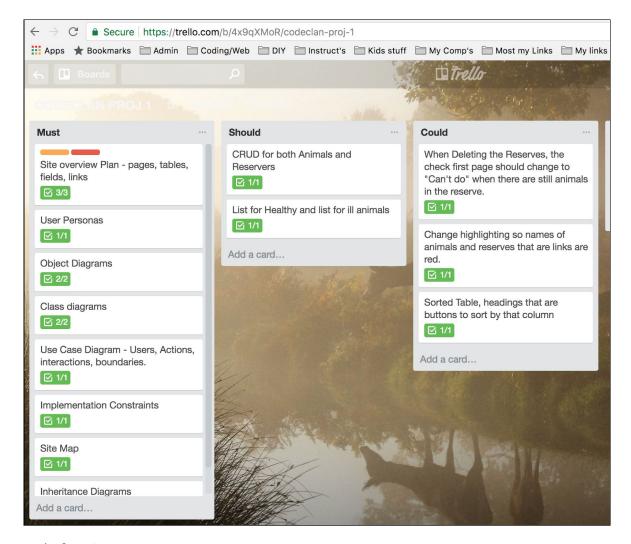
LINK: https://github.com/strayllama/Hero\_vs\_Rat

## P 12

• Take screenshots or photos of your planning and the different stages of development to show changes:



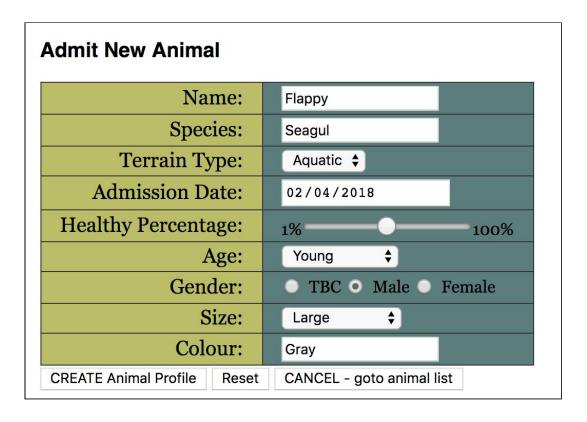
Midway through project



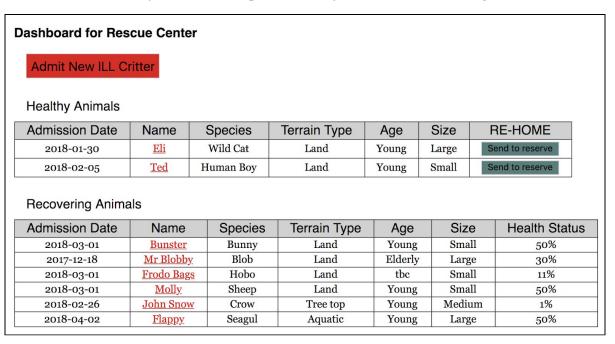
**End of Project** 

#### P 13 + P 14 + P 15

- User input being processed according to design requirements AND show an interaction with data persistence AND show the correct output of results and feedback to user:
  - The user inputting Data into your program FILLED OUT FORM:



• The user input / data being saved and processed in some way - LISTED:



#### P 16

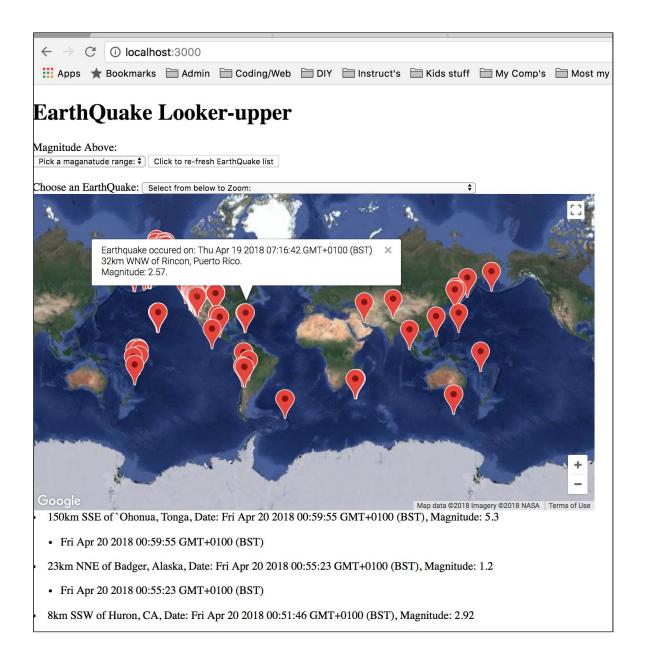
- Show an API being used within your program. Take a screenshot of:
  - The code that uses or implements the API

```
// Starting URL is selecting todays earthquakes
const url = `https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime=2018-04-19&endtime=2018-04-20`;
// then we pull the default data
const quakeData = new QuakeData(url);
```

#### QuakeData is Request.js

```
us request.js
const Request = function(url) {
this.url = url;
};
Request.prototype.get = function(onComplete) {
  const request = new XMLHttpRequest();
 request.open('GET', this.url);
  request.addEventListener('load', function() {
    if(this.status !== 200) {
      return;
    const responseBody = JSON.parse(this.responseText);
    onComplete(responseBody);
 });
  request.send();
};
module.exports = Request;
```

• The API being used by the program whilst running



## P 17 - A Bug tracking Reports:

BUG	Fail / Pass
Player can save can change their name	Pass
Discarded cards appear on the discard pile	Pass
Number of active players can be chosen as 2,3 or 4	Fail
Deck takes out one card before dealing player cards	Fail
When player wins, as the deck runs out of cards, the message should be	Fail

## P 18 - Testing in my program:

• Example of test code:

```
require("minitest/autorun")
require_relative("failures_demo.rb")
class Task_2Test < MiniTest::Test</pre>
 def setup
 end
 def test_func1_gives_true_with_1
   answer = func1(1)
   assert_equal(true, answer) # test 1
 def test_func1_gives_false_with_anything_else
   answer = func1(2)
   assert_equal(false, answer) # test 2
 end
 def test_max_returns_largest_number_when_first
   answer = max(2,1)
   assert_equal(2, answer) # test 3
 def test_max_returns_largest_number_when_second
   answer = max(1,2)
   assert_equal(2, answer) # test 4
 end
end
```

The test code failing to pass:

Failing on line 4 due to single = where double == is needed.

• Example of the test code once errors have been corrected + test code passing:

```
task2_spec.rb:2:in 'require_relative': /Users/user/Dropbox/codeclan_work/PDA_evidence/
Implementation_and_Testing_Unit_Level_8/failures_demo.rb:11: syntax error, unexpected
tIDENTIFIER, expecting ';' or '\n' (SyntaxError)
def max a b # dif should be def AND '
                                                               if a > b
          return a
          return b # should be return b
                                                             end # This is an extra end, needs re
     failures = 0
       puts "looper passed"
                                                               10
looper failed
func1(3) passed
max(100,1) passed
Test Failed
Run options: --seed 16771
        failures = failures + 1
33 end #<----
                                                               # Running:
                                                               Finished in 0.000912s, 4386.7586 runs/s, 4386.7586 assertions/s.
        failures = failures + 1
CRLF UTF-8 Ruby & master ♥
                                                               4 runs, 4 assertions, 0 failures, 0 errors, 0 skips
→ Implementation_and_Testing_Unit_Level_8 git:(master)
```