

Robert James Bowes

I.T 5 Demonstrate the use of an array in a program

```
song.rb    song_spec.rb    room.rb    IT5_array.rb
1  require("../IT5_array_spec")
2
3  class Playlist < Minitest::Test
4
5    attr_reader(:song_name)
6
7    def initialize(song_name)
8      @song_name = song_name
9    end
10
11  end
12
```

```
IT5_array_spec.rb    IT5_array.rb
1  require("minitest/autorun")
2  require("minitest/rg")
3  require_relative("../IT5_array.rb")
4
5  class TestPlaylist < Minitest::Test
6
7    def setup
8      @playlist = Playlist.new(["Metallica", "Thin Lizzy", "Céline Dion", "AC/DC"])
9    end
10
11    def test_second_artist
12      assert_equal("Thin Lizzy", @playlist.second_song)
13    end
14
15  end
16
```

```
Random Shizzle — user@CODECLAN015 — ..andom Shizzle — -zsh — 80>
[➔ Random Shizzle ruby IT5_array_spec.rb
Run options: --seed 11747

# Running:

.

Finished in 0.001032s, 968.9927 runs/s, 968.9927 assertions/s.

1 runs, 1 assertions, 0 failures, 0 errors, 0 skips
➔ Random Shizzle
```

I.T 6 Demonstrate the use of a hash in a program.

```
testing_task_1.rb
require( "miniTest/autorun" )
require_relative( "../library" )

class TestLibrary < MiniTest::Test

  def setup
    @library = Library.new( [
      { title: "lord of the rings",
        rental_details: {
          student_name: "Jeff",
          date: "01/12/16"
        }
      },
      { title: "lord of the flies",
        rental_details: {
          student_name: "Nicky",
          date: "02/12/16"
        }
      },
      { title: "1984",
        rental_details: {
          student_name: "Thomas",
          date: "03/12/16"
        }
      }
    ] )
  end

end

testing_task_1.rb
testing_task_2.rb
1 class Library
2
3 attr_reader(:title, :rental_details, :student_name, :date)
4 attr_writer(:title, :rental_details, :student_name, :date)
5
6 def initialize(library)
7   @library = library
8 end
9
10 def all_books
11   return @library
12 end
13
14 def title_of_first_book
15   return @library[0][:title]
16 end
17
18 end
19

def test_first_book
  book_title = @library.title_of_first_book
  assert_equal( "lord of the rings", book_title )
7 end
```

Run options: --seed 29577

Running:

..

Finished in 0.001009s, 1982.1606 runs/s, 1982.1606 assertions/s.

2 runs, 2 assertions, 0 failures, 0 errors, 0 skips

I.T 3 Demonstrate searching data in a program.

```
def self.all
  sql = 'SELECT * FROM pets;'
  values = []
  pets_hash = SqlRunner.run(sql, values)
  pets = pets_hash.map { |pet| Pet.new(pet) }
  return pets
end
```

```
[➔ db git:(master) ✕ ruby seeds.rb
[[1] pry(main)> Pet.all
=> [#<Pet:0x007fdc85a77f38
  @admission_date="2017-07-15",
  @adoptable="Yes",
  @breed="dog",
  @id=159,
  @name="Douglas McKenzie",
  @picture="/douglas_mckenzie.jpg">,
#<Pet:0x007fdc85a77d08
  @admission_date="2017-06-22",
  @adoptable="No",
  @breed="cat",
  @id=160,
  @name="Gertrude",
  @picture="/gertrude.png">,
```

I.T 4 Demonstrate sorting data in a program

```
8     end
9
10    def self.breed_sort
11        return Pet.all.sort_by{ |pet| pet.breed }
12    end
13
```

```
[→ db git:(master) ✖ ruby seeds.rb
[[1] pry(main)> Pet.breed_sort
=> [#<Pet:0x007feebd8cd288
  @admission_date="2017-05-25",
  @adoptable="Yes",
  @breed="bird",
  @id=181,
  @name="Terry",
  @picture="/terry.jpg">,
  #<Pet:0x007feebd8cddc8
  @admission_date="2017-08-12",
  @adoptable="Yes",
  @breed="bird",
  @id=176,
  @name="Birdy McBirdface",
  @picture="/birdy_mcbirdface.jpg">,
  #<Pet:0x007feebd8ce200
  @admission_date="2017-06-22",
  @adoptable="No",
  @breed="cat",
  @id=173,
  @name="Gertrude",
  @picture="/gertrude.png">,
  #<Pet:0x007feebd8ce0c0
  @admission_date="2017-07-25",
  @adoptable="Yes",
  @breed="cat",
  @id=174,
  @name="Prudence",
  @picture="/prudence.jpg">,
```

A.D 6

Constraints	Possible effect of constraint	Details
Hardware and software platforms	Was not tested on mobile devices so may not run adequately on all platforms. Not accessible for certain users, cannot market to a large percentage of population.	Although the site is responsive the css could be written to ensure optimum usability/readability.
Performance requirements	The site is locally hosted so only accessible from my laptop.	Ensure that others can access the site: Internet
Persistent storage and transactions	Due to the way the site is set out searching for an individual animal could take a little time due to the lack of a search function	Change the layout of the "all animals" section to ensure that it's more readable.
Usability	Pictures Granny	
Budgets	There was no budget used in this project	Personal project for the course of codeclan.
Time	I had a week to create the project from scratch which meant that I wasn't able to fully implement all the features I wanted.	I will go back to the project every so often to improve it and refactor the code as I learn more at CodeClan.

P - P10

```
66
67 def pets()
68   # I want to select all pets from the pets table
69   # Inner join on by using adoption id
70   # return the details and map them to the pet class
71   sql = "SELECT pets.*
72         FROM pets
73         INNER JOIN adoptions
74         ON adoptions.pet_id = pets.id
75         WHERE owner_id = $1"
76   values = [@id]
77   pet_data = SqlRunner.run(sql, values)
78   return pet_data.map { |pet| Pet.new(pet)}
79 end
```

P - P13

All owners	
First name:	<input type="text" value="Simon"/>
Surname:	<input type="text" value="Anger"/>
Address:	<input type="text" value="1 Streety Road"/>
Address:	<input type="text" value="Leith"/>
Town:	<input type="text" value="Embra"/>
Picture:	<input type="text" value="simon_anger.jpg"/>
<input type="button" value="Register"/>	

© 2017 Jurassic Bark Animal Sh

Name: Simon Anger



Address: 1 Streety Road

Leith

Town: Embra

[Edit owner?](#)

P - P14

Name: Dean Anderson | Animal type: other

Dean Anderson has been with us since: 2017-08-22



Dean Anderson is currently up for adoption!

[Adopt me!](#)

[Edit Dean Anderson](#)

More [others](#)

Edit Dean Anderson (188)

Name:

Type:

Admission date:

Adoptable:

Picture:

[Edit pet](#)

Name: Dean Anderson Edited | Animal type: other

Dean Anderson Edited has been with us since: 2017-08-22



Dean Anderson Edited is currently up for adoption!

[Adopt me!](#)

[Edit Dean Anderson Edited](#)

More [others](#)

All owners	Register an owner	All our pets	Re
----------------------------	-----------------------------------	------------------------------	--------------------

Here is a list of all our successful adoptions

© 2017 Jurassic Bark Animal Shelter
Scottish Charity No. SC 12345

All owners	Register an
----------------------------	-----------------------------

To adopt a pet please [register](#) first.

Owner:

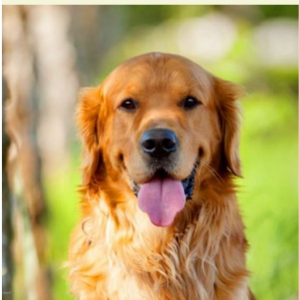
Pet:

© 2017 Jurassic Bark Animal Shelter
Scottish Charity No. SC 12345

All owners	Register an owner	All our pets	E
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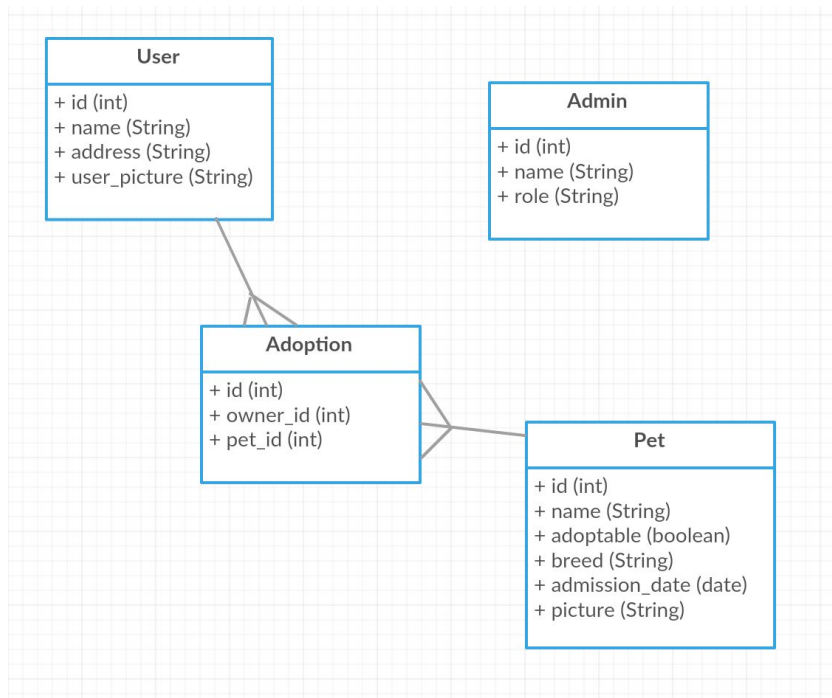
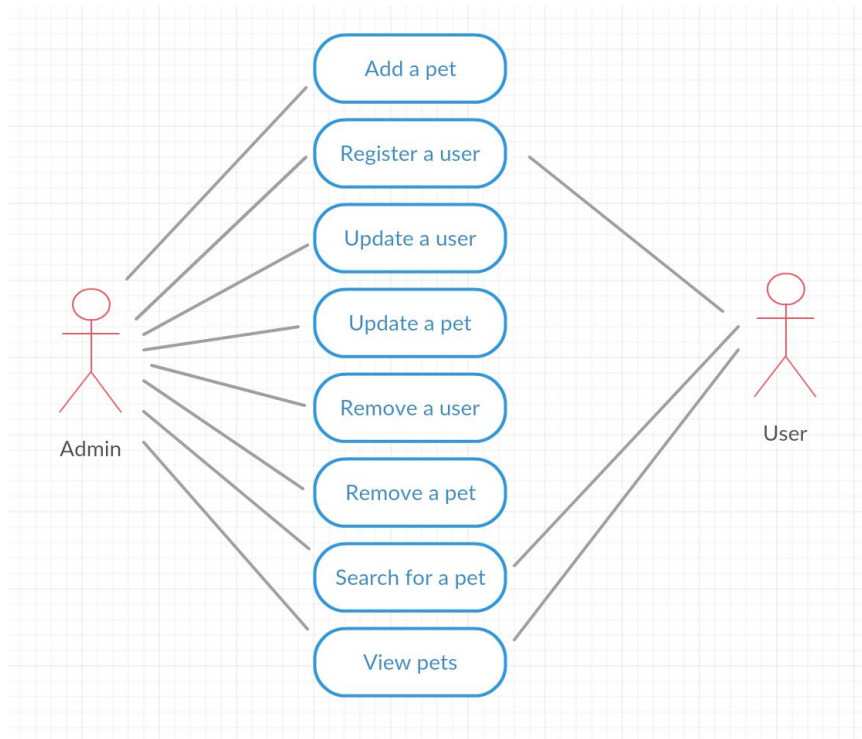
Here is a list of all our successful adoptions

Douglas McKenzie has found a lovely home with [Simon Anger](#)!



Delete adoption?

A & D - AD1



P 11

https://github.com/robbowes/Java_Android_Blackjack

Vanilla Java + Android Blackjack Interactive Card Game Application

Edit

Add topics

28 commits

1 branch

0 releases

1 contributor

Branch: master












New pull request

Create new file

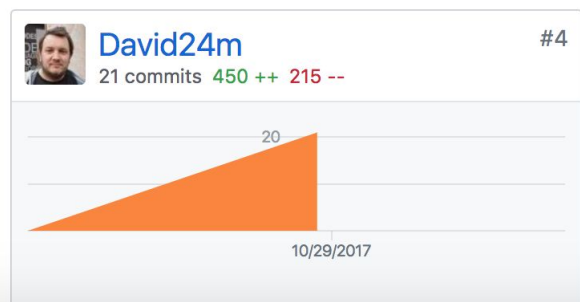
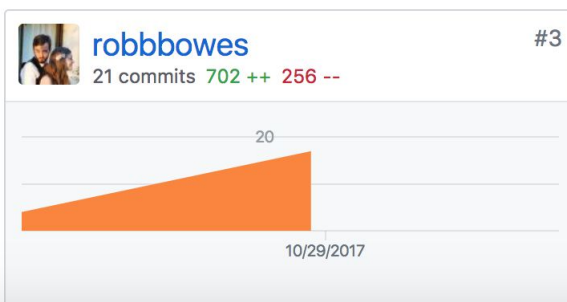
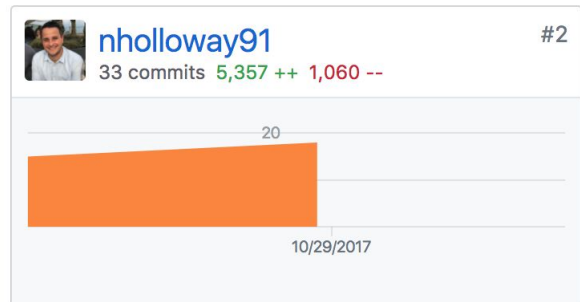
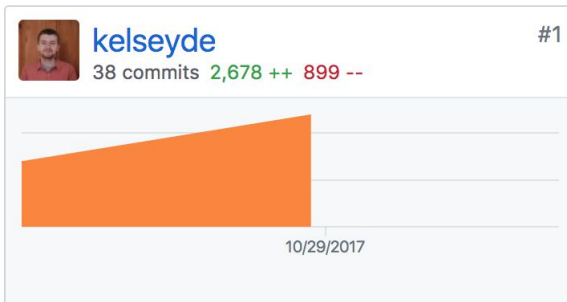
Upload files

Find file

Clone or download

	Create README.md	Latest commit 186c941 12 days ago
	.idea	All tests working, before moving stuff to dealer a month ago
	app	Pre-feedback commit a month ago
	gradle/wrapper	First commit a month ago
	.gitignore	First commit a month ago
	README.md	Create README.md 12 days ago
	build.gradle	First commit a month ago
	gradle.properties	First commit a month ago
	gradlew	First commit a month ago
	gradlew.bat	First commit a month ago
	settings.gradle	First commit a month ago

P 1



P 2

■ SPORTS DASHBOARD

- Sports fans want to be able to view relevant sporting events on a dashboard. With a sport of your choice, use an existing API or create a new API to display information about fixtures, news and travel information for events.
- MVP: 1) Display upcoming events on a map 2) Display results and ranking of players/teams 3) Allow users to add events to a favourites list

■ ROUTE PLANNER

- Visit Scotland are look for ways to encourage people to walk and cycle. Your task is to create an app that allows users to search for cycling and hiking routes, view routes on a map, save routes to a wish list and mark a route done.
- MVP: 1) Select start and finish locations for their route 2) Save routes to a wish list 3) Mark completed routes as 'done'

P3

