

PDA: Software Development

Level 8

Iain Paterson
Cohort E15

Ref: I.T 5

Array in program


	i_t_5.rb	i_t_6.rb
1	football_teams = ['Rangers', 'Juventus', 'Manchester United',
2		'Bayern Munich', 'Barcelona', 'Benfica']
3		
4		

Function that uses array

```
def get_team(array)
  return array.reverse
end

puts get_team(football_teams)
```

Result of function



A screenshot of a macOS terminal window. The title bar at the top shows three colored window control buttons (red, yellow, green) on the left and a folder icon followed by the text "week_2 — user" on the right. Below the title bar, there are three tabs: "ruby", "ruby app...", and "psql". The "ruby" tab is currently selected. The terminal content shows a green prompt character followed by the command "week_2 ruby i_t_5.rb". Below this, a list of football team names is printed: Benfica, Barcelona, Bayern Munich, Manchester United, Juventus, and Rangers. At the bottom, there is another green prompt character followed by "week_2" and a grey rectangular cursor block.

```
week_2 — user
ruby  ruby app...  psql
[→ week_2 ruby i_t_5.rb
Benfica
Barcelona
Bayern Munich
Manchester United
Juventus
Rangers
→ week_2 █
```

Ref I.T 6

Hash in a program

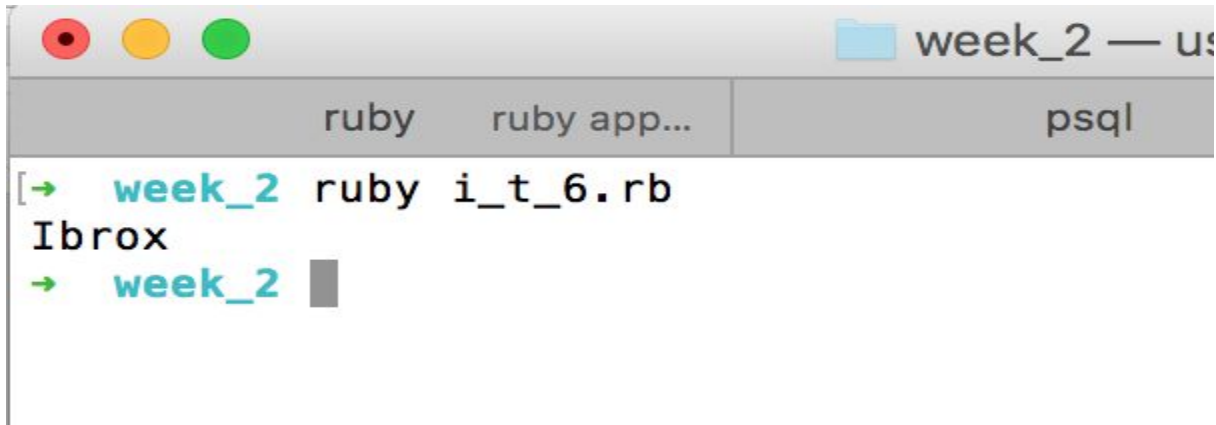
```
i_t_5.rb | i_t_6.rb
1 teams_stadiums = { :rangers => 'Ibrox',
2                   :juventus => 'Juventus Stadium',
3                   :manchester_United => 'Old Trafford',
4                   :bayern_Munich => 'Allianz Arena',
5                   :barcelona => 'Camp Nou',
6                   :benfica => 'Estadio da Luz'}
7
```

Function that uses hash

```
def rangers_stadium(hash)
  return hash[:rangers]
end

puts rangers_stadium(teams_stadiums)
```

Result of function

A screenshot of a macOS terminal window. The title bar shows three colored window control buttons (red, yellow, green) and a folder icon followed by the text "week_2 — us". The terminal has three tabs: "ruby", "ruby app...", and "psql". The "ruby" tab is active. The prompt is "[→ week_2". The user has entered "ruby i_t_6.rb", and the output is "Ibrox". The user has entered "→ week_2" followed by a grey cursor block.

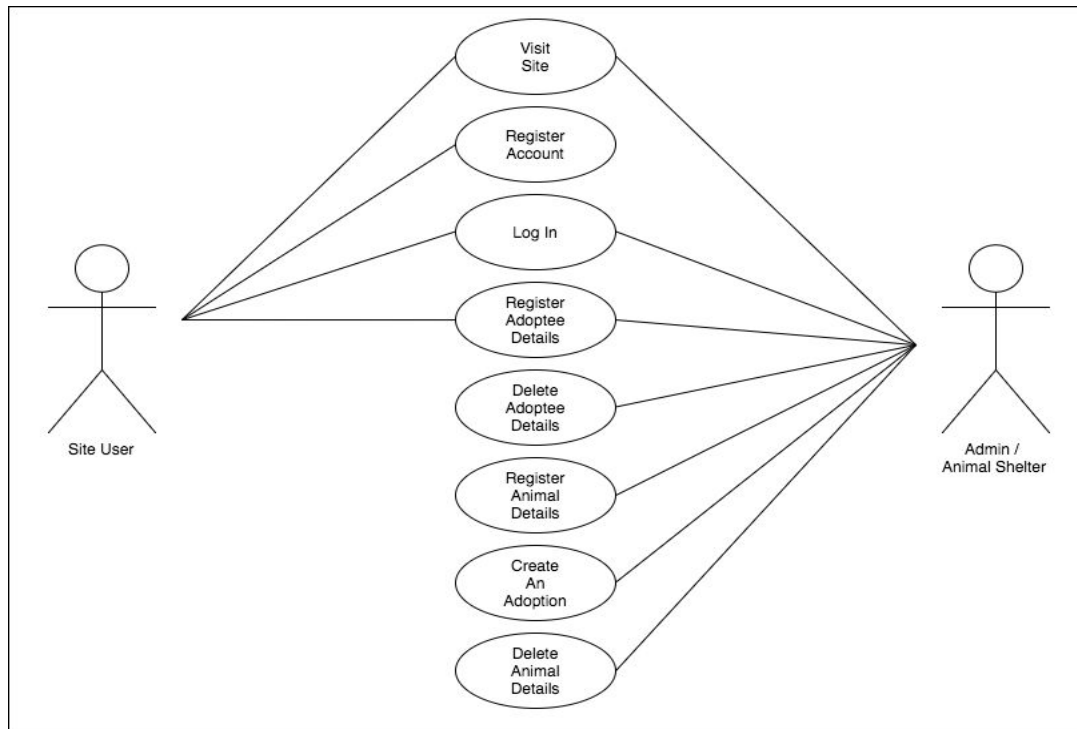
```
[→ week_2 ruby i_t_6.rb
Ibrox
→ week_2 █
```

Ref I.T 3

Ref I.T 4

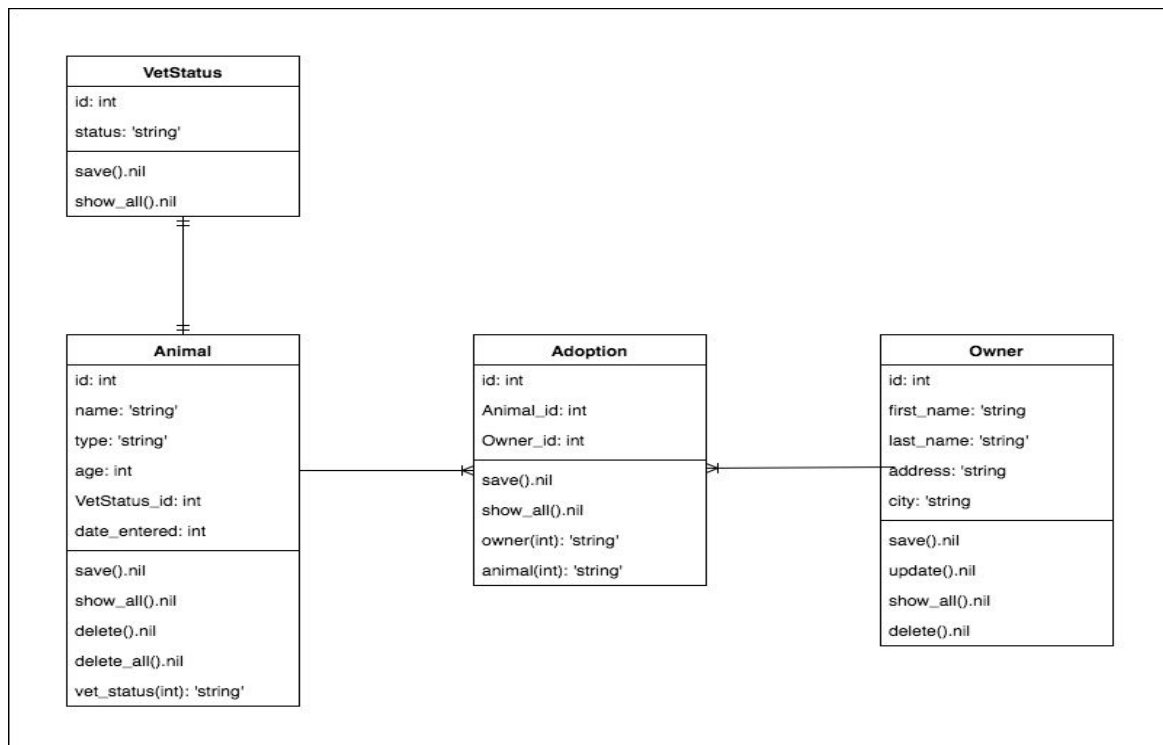
A.D 1

Use of case diagram



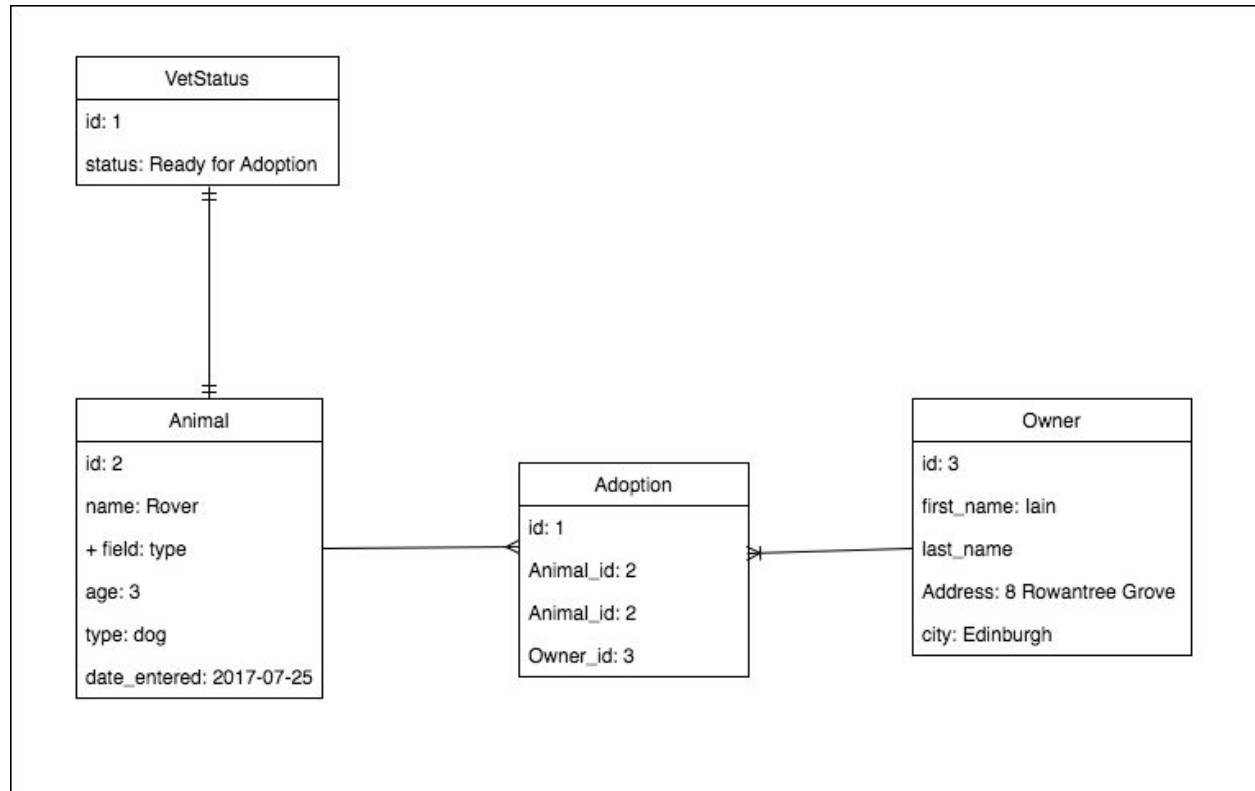
A.D 2

Use of Class diagram



A.D 3

Use of object diagram



A.D 4

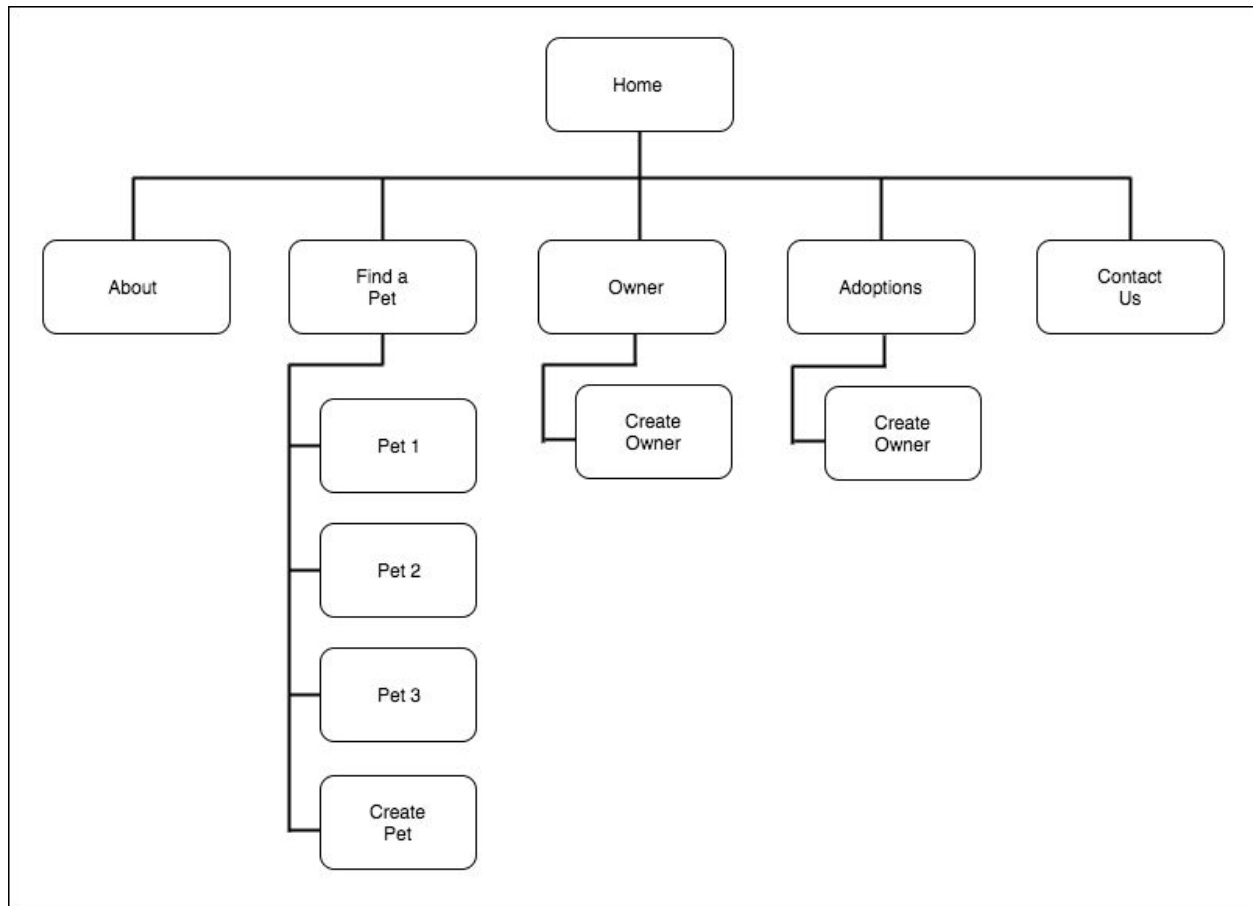
Activity Diagram

A.D 6

Implementations Constraints Plan

P 5

Use of Sitemap



P 6

Wireframes

P13

User input being processed

Register pet details

Name:

Type:

Age:

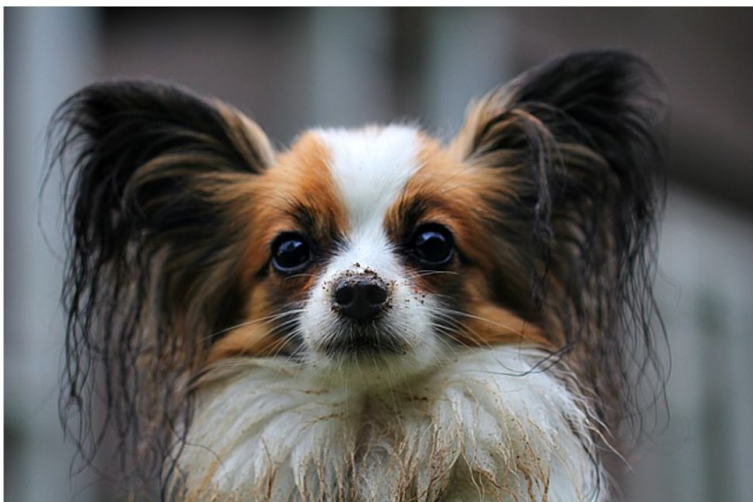
Select Adoption Status:

Date:

dog.jpg

User input being used

More Info



Name: Alfie

Type: Dog

Age: 7

Adoptable: Ready for adoption

Date: 2017-09-09

P14

Interaction with data persistence

P15

Output and feedback to user