

Evidence Gathering Document for SQA Level 8 Professional Developer Award.

This document is designed for you to present your screenshots and diagrams relevant to the PDA and to also give a short description of what you are showing to clarify understanding for the assessor.

Please fill in each point with screenshot or diagram and description of what you are showing.

Each point requires details that cover each element of the Assessment Criteria, along with a brief description of the kind of things you should be showing.

Week 2

Unit	Ref	Evidence	
1&T	I.T.5	Demonstrate the use program. Take scree *An array in a program *A function that use *The result of the fu	enshots of: ram es the array
		Description:	

```
require('minitest/autorun')
require('minitest/rg')
require_relative('../room')
require_relative('../guests')
require_relative('../songs')
class TestRoom < Minitest::Test</pre>
  def setup
    @ali = Guests.new("Ali", "Can I Kick It?", 20.00)
    @hamish = Guests.new("Hamish", "Regulate", 10.50)
@nicola = Guests.new("Nicola", "Shoop", 3.90)
    @giles = Guests.new("Giles", "Don't Stop Moving", 30.00)
    guests = [@ali, @hamish, @nicola, @giles]
    song1 = Songs.new("Regulate")
    song2 = Songs.new("Join the Dots")
    song3 = Songs.new("Bang Bang")
    playlist = [song1, song2, song3]
    @room = Room.new("The Disco Room", guests, playlist)
    @martin = Guests.new("Martin", "I got 5 on it", 8.00)
    @song4 = Songs.new("Bat Out Of Hell")
  end
```

This screen shot of class TestRoom has examples of two arrays, we're going to be focusing on the array entitled "guests". This array contains instances of the class Guests: @ali, @hamish, @nicola and @giles. Further down we can see @martin, another instance of the class Guests. We will be adding @martin to the guests array.

```
class Room

attr_reader :name, :guests, :playlist, :capacity, :entry_fee, :till

def initialize(name, guests, playlist)

@name = name
@guests = guests
@playlist = playlist
@capacity = 4
@entry_fee = 5.00
@till = 0

def check_in_guest(name)
@guests << name
end</pre>

def check_in_guest(name)
@guests << name
end
```

This second screen shot features a function entitled "check_in_guest". check_in_guest takes one argument "name" and uses the method << to add the argument to the end of the array.

```
def test_check_in_guests
    expected = 5

p @room.check_in_guest(@martin)
actual = @room.guests.count

assert_equal(expected, actual)
end
end
```

Finally, we can see in this screen shot the result of running this function.

```
Finished in 0.002638s, 6444.2758 runs/s, 6444.2758 assertions/s.
17 runs, 17 assertions, 0 failures, 0 errors, 0 skips
[→ specs git:(master) x ruby room_spec.rb
                                                                                1
Run options: --seed 35681
# Running:
.....[#<Guests:0x007fda7388bf80 @name="Ali", @favourite_song="Can I Kick It?", @
wallet=20.0, @bar_tab=0>, #<Guests:0x007fda7388be90 @name="Hamish", @favourite_s
ong="Regulate", @wallet=10.5, @bar_tab=0>, #<Guests:0x007fda7388be18 @name="Nico
la", @favourite_song="Shoop", @wallet=3.9, @bar_tab=0>, #<Guests:0x007fda7388bd7
8 @name="Giles", @favourite_song="Don't Stop Moving", @wallet=30.0, @bar_tab=0>,
#<Guests:0x007fda7388ba08 @name="Martin", @favourite_song="I got 5 on it", @wal
let=8.0, @bar_tab=0>]
Finished in 0.002132s, 7973.7338 runs/s, 7973.7338 assertions/s.
17 runs, 17 assertions, 0 failures, 0 errors, 0 skips
→ specs git:(master) x
```

Unit	Ref	Evidence	
1&T	I.T.6	Demonstrate the us program. Take scre *A hash in a progra *A function that use *The result of the fu	enshots of: m es the hash
		Description:	

This screen shot of class TestPetShop shops an example called "@customers" of a hash within an array. The array has two hashes, each with the keys name, pets and cash. Description here

```
102
103 def customer_cash(customer)
104 | return customer[:cash]
105 end
```

Here we have a function called "customer_cash". This function is passed an argument "customer". It specifies to return the value of the key "cash".

Finally, these last two screen shots show the result of the running the function via test_customer_cash. The function is being passed the argument of the first hash (@customer[0]) I've printed the result of 1000 to the terminal.

Week 3

Unit	Ref	Evidence	
I&T	I.T.3	Demonstrate searching data in a program. Take screenshots of:	
		*Function that sear *The result of the fu	ches data
		Description:	

```
def self.all()
sql = "SELECT * FROM tickets"
values = []
users = SqlRunner.run(sql, values)
result = tickets.map { |ticket| Ticket.new( ticket ) }
return result
end
```



The first screenshot here displays the function "self.all" in which the sql command is selecting all the fields in the tickets table.

The second screenshot displays the result.

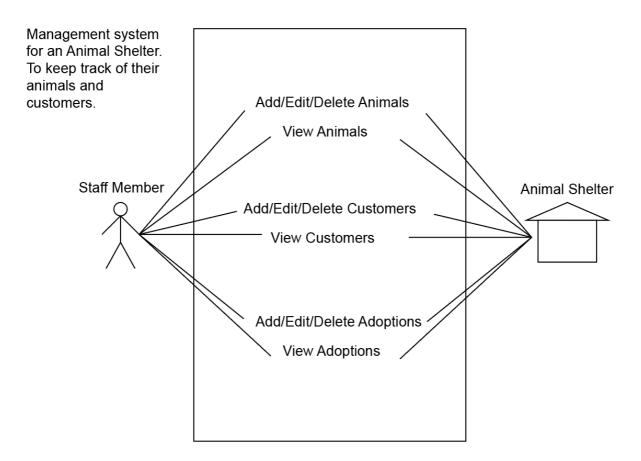
Unit	Ref	Evidence	
I&T	I.T.4	Demonstrate sortin	g data in a
		program. Take screenshots of:	
		*Function that sorts data	
		*The result of the fu	inction running
		Description:	

Paste Screenshot here

Description here

Week 5 and 6

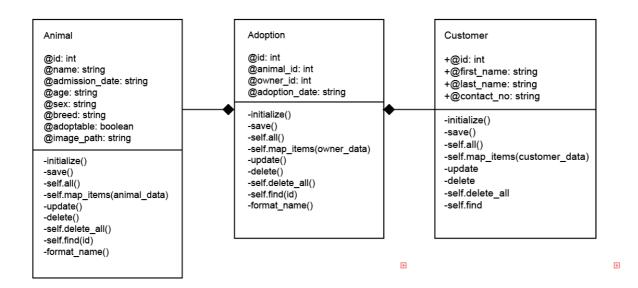
Unit	Ref	Evidence	
A&D	A.D.1	A Use Case Diagra	m
		Description:	



This is a Use Case diagram of my Animal Shelter project. I had to design a management system for an Animal Shelter. They should be able to keep track of their animals and customers. Here we have the Staff Member, they should be able to add/edit/delete the animals, customers and adoptions and also view them.

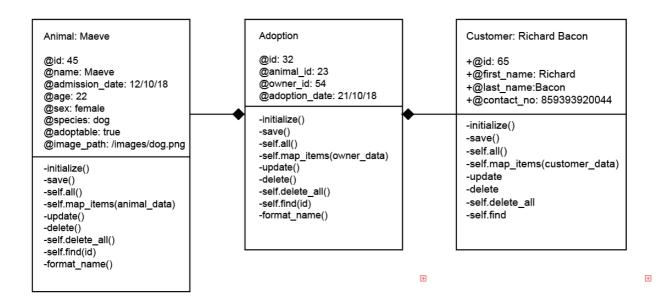
Unit	Ref	Evidence
A&D	A.D.2	A Class Diagram
		Description:

Animal Shelter



Unit	Ref	Evidence	
A&D	A.D.3	An Object Diagram	
		Description:	

Animal Shelter



Unit	Ref	Evidence	
A&D	A.D.4	An Activity Diagram	1
		Description:	

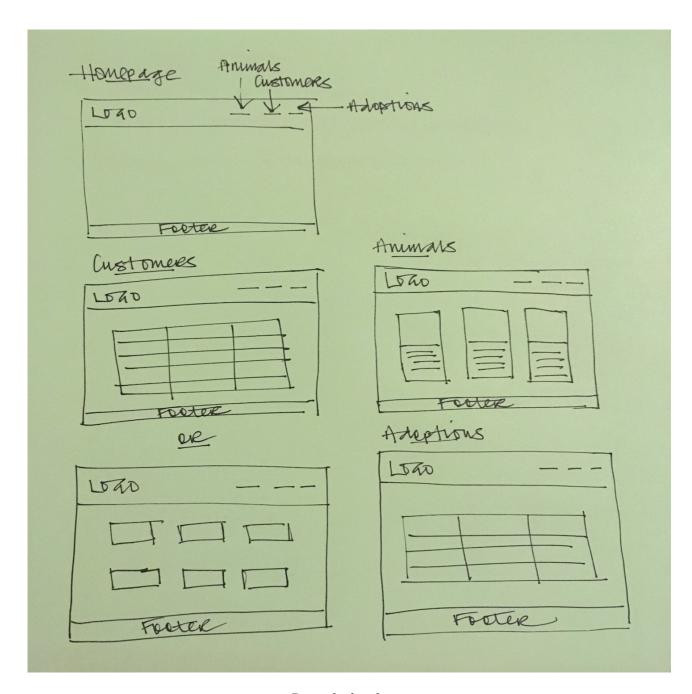
Unit	Ref	Evidence	
A&D	A.D.6	Produce an Implem Constraints plan de factors: *Hardware and soft *Performance requi *Persistent storage *Usability *Budgets *Time	tailing the following ware platforms rements
		Description:	

Description here

Unit	Ref	Evidence	
P	P.5	User Site Map	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.6	2 Wireframe Diagra	ims
		Description:	



Description here

Unit	Ref	Evidence	
Р	P.10	Example of Pseudo method	code used for a
		Description:	

Unit	Ref	Evidence	
P	P.13	Show user input being processed	
		according to design requirements.	
		Take a screenshot of:	
		* The user inputting something into	
		your program	
		* The user input bei	ng saved or used
		in some way	
		Description:	

Description here

Unit	Ref	Evidence	
Р	P.14	Show an interaction with data persistence. Take a screenshot of: * Data being inputted into your program	
		* Confirmation of th	e data being saved
		Description:	

Paste Screenshot here

Description here

Unit	Ref	Evidence	
P	P.15	Show the correct or feedback to user. Tof: * The user requesting an action to be perfixed to the top of the correctly and demost program.	ake a screenshot ng information or ormed being processed
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
Р	P.11	Take a screenshot projects where you and attach the Gith	have worked alone
		Description:	

Github for Animal Shelter Project: https://github.com/ilikebees/animal_shelter

The Animal Shelter



© Laura Manson 2018

Customers

Adoptions

The Animal Shelter



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Customers

Add Customer

First Name	Last Name	Contact	
Stewart	Campbell	07804763704	Details
Laura	Manson	07904033744	Details
Roger	Franko	07986432167	Details
Catherine	Mackintosh	07654389102	Details
Argo	Montique	07876452889	Details
Ted	Danson	07896543903	Details

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The Animal Shelter

Animals Customers

Adoptions

Adoptions

Add Adoption

Animal	Adopted by	Adoption date	
Morris	Argo Montique	2018-11-16	Details
Merlin	Catherine Mackintosh	2018-11-19	Details
Bradley	Stewart Campbell	2018-11-30	Details

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Description here

Unit	Ref	Evidence	
P	P.12	Take screenshots of planning and the didevelopment to sho	fferent stages of
		Description:	

Paste Screenshot here

Week 7

Unit	Ref	Evidence	
P	P.16	Show an API being program. Take a so * The code that use the API * The API being use whilst running	reenshot of: s or implements
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
Р	P.18	Demonstrate testing in your program.	
		Take screenshots of:	
		* Example of test code	
		* The test code failing to pass	
		* Example of the test code once errors	
		have been corrected	
		* The test code passing	
		Description:	

```
def test_check_for_Ace
    expected = false
    actual = @game.checkforAce(@card1)
    assert_equal(expected, actual)
    end
end
```

```
Run options: --seed 22933
# Running:
E
Finished in 0.001240s, 806.4515 runs/s, 0.0000 assertions/s.
    1) Error:
TestCardGame#test_check_for_Ace:
```

```
10
11  def checkforAce(card)
12  if card.value == 1
13  | return true
14  else
15  | return false
16  end
17  end
18
```

```
[→ PDA_Static_and_Dynamic_Task_A ruby test_task_2_spec.rb Run options: --seed 49094
# Running:
Finished in 0.000851s, 1175.0885 runs/s, 1175.0885 assertions/s.
1 runs, 1 assertions, 0 failures, 0 errors, 0 skips

→ PDA_Static_and_Dynamic_Task_A ■
            def test_highest_card
                expected = @card2
                actual = @game.highest_card(@card1, @card2)
                assert_equal(expected, actual)
Finished in 0.015017s, 133.1824 runs/s, 133.1824 assertions/s.
  1) Failure:
TestCardGame#test_highest_card [test_task_2_spec.rb:30]:
--- expected
+++ actual
@@ -1 +1 @@
-#<Card:0xXXXXXX @suit="clubs", @value=10>
+#<Card:0xXXXXXX @suit="spades", @value=8>
2 runs, 2 assertions, 1 failures, 0 errors, 0 skips
             def highest_card(card1, card2)
                 if card1.value > card2.value
                    return card1
                 else
                    card2
                end
             end
```

Run options: --seed 60727

Finished in 0.000970s, 2061.8558 runs/s, 2061.8558 assertions/s.

2 runs, 2 assertions, 0 failures,_0 errors, 0 skips

Running:

```
def test_cards_total
    expected = "You have a total of 25"
    actual = CardGame.cards_total(@cards)
    assert_equal(expected, actual)
    end
end
end
```

```
Run options: --seed 50175

# Running:
.F.

Finished in 0.001300s, 2307.6921 runs/s, 2307.6921 assertions/s.

1) Failure:
TestCardGame#test_cards_total [test_task_2_spec.rb:36]:
Expected: "You have a total of 25"
Actual: "You have a total of25"

3 runs, 3 assertions, 1 failures, 0 errors, 0 skips
```

```
def self.cards_total(cards)

total = 0

for card in cards

total += card.value

end

return "You have a total of " + total.to_s

end

end

end

end

end

end

end
```

```
PDA_Static_and_Dynamic_Task_A ruby test_task_2_spec.rb
Run options: --seed 39795
# Running:
...
Finished in 0.001051s, 2854.4235 runs/s, 2854.4235 assertions/s.
3 runs, 3 assertions, 0 failures, 0 errors, 0 skips
```

Unit	Ref	Evidence	
P	P.1	Take a screenshot page on Github from project to show the with.	n your group
		Description:	

Description here

Unit	Ref	Evidence	
Р	P.2	Take a screenshot of the project brief	
		from your group pro	oject.
		Description:	

Paste Screenshot here

Description here

Unit	Ref	Evidence	
P		Provide a screensh you completed duri project, e.g. Trello I	ng your group
		Description:	

Paste Screenshot here

Description here

Unit	Ref	Evidence	
Р	P.4	Write an acceptanc plan.	e criteria and test

Paste Screenshot here

Description here

Unit	Ref	Evidence	
Р	P.7	Produce two system diagrams (sequence collaboration diagrams)	e and/or
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
Р	P.8	Produce two object diagrams.	
		Description:	

Description here

Unit	Ref	Evidence	
P	P.17	Produce a bug tracking report	
		Description:	

Paste Screenshot here

Description here

Week 12

Unit	Ref	Evidence	
I&T	I.T.7	The use of Polymorphism in a	
		program and what i	t is doing.
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
A&D	A.D.5	An Inheritance Diagram	
		Description:	

Description here

Unit	Ref	Evidence	
I&T	I.T.1	The use of Encapsulation in a	
		program and what i	t is doing.
		Description:	

Paste Screenshot here

Description here

Unit	Ref	Evidence	
I&T	I.T.2	Take a screenshot of the use of	
		Inheritance in a pro	gram. Take
		screenshots of:	
		*A Class	
		*A Class that inherits from the	
		previous class	
		*An Object in the inherited class	
		*A Method that use	s the information
		inherited from anoth	ner class.
		Description:	

Paste Screenshot here

Description here

Unit	Ref	Evidence	
P	P.9	Select two algorithm (NOT the group pro- screenshot of each statement on why y use those algorithm	and write a short ou have chosen to
		Description:	

Paste Screenshot here