

# **University of Westminster**

## **Software Development I**

**4COSC006C**

**TEST PLAN**

**Part 1**

**Name – Sashiraj Akaash**

**UOW Number – w2051998**

**IIT Number – 20231979**

# **4COSC006C: Software Development I**

## **– TEST PLAN for Part 1**

Student Name/ID: Sashiraj Akaash

20231979

**w2051998**

Seminar Day/Time:

Module Tutor:

Mr. Raveen Sriskandarajah

Mr. Dinusha Ruwan Kumara

Mr. Saman Hettiarachchi

## Test Case Table

	<b>Student Name:</b> Sashiraj Akaash				<b>Student ID:</b> w2051998
	<b>TEST PLAN for Part 1 :</b> Submit completed test plan with your code solution				
Test Component	Test No.	Test Input	A - Expected Result	B - Actual Result (or state 'not attempted')	Pass/Fail ('A' matches 'B' == Pass)
Progress	1	Pass = 120 Defer = 0 Fail = 0	'Progress' displayed	'Progress' displayed	Pass
Progress (module trailer)	2.1	Pass = 100 Defer = 20 Fail = 0	'Progress (module trailer)' displayed	'Progress (module trailer)' displayed	Pass
	2.2	Pass = 100 Defer = 0 Fail = 20	'Progress (module trailer)' displayed	'Progress (module trailer)' displayed	Pass
Module retriever	3.1	Pass = 80 Defer = 20 Fail = 20	'Module retriever' is displayed	'Module retriever' is displayed	Pass
	3.2	Pass = 60 Defer = 0 Fail = 60	'Module retriever' is displayed	'Module retriever' is displayed	Pass

	3.3	Pass = 40 Defer = 80 Fail = 0	'Module retriever' is displayed	'Module retriever' is displayed	Pass
	3.4	Pass = 20 Defer = 40 Fail = 60	'Module retriever' is displayed	'Module retriever' is displayed	Pass
	3.5	Pass = 0 Defer = 60 Fail = 60	'Module retriever' is displayed	'Module retriever' is displayed	Pass
Exclude	4.1	Pass = 40 Defer = 0 Fail = 80	'Exclude' displayed	'Exclude' displayed	Pass
	4.2	Pass = 20 Defer = 0 Fail = 100	'Exclude' displayed	'Exclude' displayed	Pass
Validation	5.1	Pass = a	'Integer required'	'Integer required'	Pass
	5.2	Pass = 5	'Out of range'	'Out of range'	Pass
	5.3	Pass = 100 Defer = 40 Fail = 0	'Total incorrect' displayed	'Total incorrect' displayed	Pass
Loops for multiple inputs	6.1	Program loops	Predicts multiple progression outcomes	Stored multiple progression outcomes	Pass
	6.2	Enter 'q'	Exits loop	Exits loop	Pass
Histogram	7.1		Window pops up and renders graph. Includes values for Progress, Trailer, Retriever and Excluded	Window pops up and renders graph. Includes values for Progress, Trailer, Retriever and Excluded	Pass
	7.2		Shows outcomes in total.	Shows outcomes in total.	Pass

## Test Cases Screenshots

```
Are you Staff or Student?  
If you are a Staff enter 'staff' or Student enter 'student': █
```

```
Enter the number of credits at pass:120  
Enter the number of credits at defer:0  
Enter the number of credits at fail: 0  
progression outcome:Progress
```

Figure 1 : Progress

```
Would you like to enter another set of data?  
Enter 'y' for yes or 'q' to quit and view results: y  
Enter the number of credits at pass:100  
Enter the number of credits at defer:20  
Enter the number of credits at fail: 0  
progression outcome:Progress(module trailer)  
  
Would you like to enter another set of data?  
Enter 'y' for yes or 'q' to quit and view results: y  
Enter the number of credits at pass:100  
Enter the number of credits at defer:0  
Enter the number of credits at fail: 20  
progression outcome:Progress(module trailer)
```

Figure 2 : Progress (module trailer)

```
Would you like to enter another set of data?
Enter 'y' for yes or 'q' to quit and view results: y
Enter the number of credits at pass:80
Enter the number of credits at defer:20
Enter the number of credits at fail: 20
progression outcome:Module retriever

Would you like to enter another set of data?
Enter 'y' for yes or 'q' to quit and view results: y
Enter the number of credits at pass:60
Enter the number of credits at defer:0
Enter the number of credits at fail: 60
progression outcome:Module retriever

Would you like to enter another set of data?
Enter 'y' for yes or 'q' to quit and view results: y
Enter the number of credits at pass:40
Enter the number of credits at defer:80
Enter the number of credits at fail: 0
progression outcome:Module retriever

Would you like to enter another set of data?
Enter 'y' for yes or 'q' to quit and view results: y
Enter the number of credits at pass:20
Enter the number of credits at defer:40
Enter the number of credits at fail: 60
progression outcome:Module retriever
```

Figure 3 : Do not Progress – module retriever

```
Would you like to enter another set of data?
Enter 'y' for yes or 'q' to quit and view results: y
Enter the number of credits at pass:40
Enter the number of credits at defer:0
Enter the number of credits at fail: 80
progression outcome:Exclude

Would you like to enter another set of data?
Enter 'y' for yes or 'q' to quit and view results: y
Enter the number of credits at pass:20
Enter the number of credits at defer:0
Enter the number of credits at fail: 100
progression outcome:Exclude
```

Figure 4 : Exclude

```
Enter the number of credits at pass:120
Enter the number of credits at defer:0
Enter the number of credits at fail: a
Integer requied
Enter the number of credits at fail: a
Integer requied
```

Figure 5: Validation 5.1

```
Enter the number of credits at fail: 5
Out of range
Enter the number of credits at fail: 
```

Figure 6 : Validation 5.2

```
If you are a staff enter -staff- or student enter -student- student
Enter the number of credits at pass:60
Enter the number of credits at defer:60
Enter the number of credits at fail: 40
Total incorrct, Total should be equal to 120
```

Figure 7: Validation 5.3

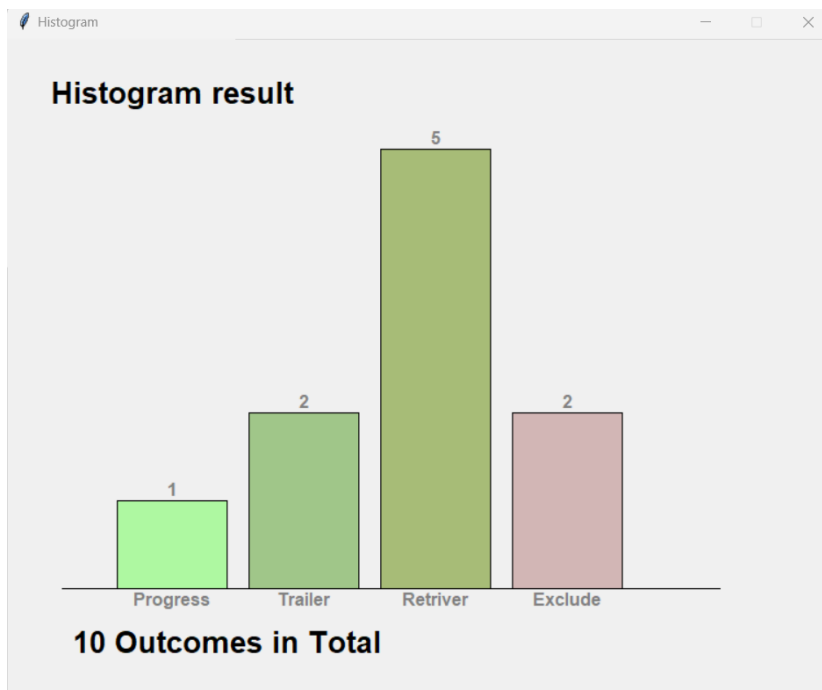


Figure 8: Histogram 7.1

## 10 Outcomes in Total

*Figure 9: Histogram 7.2*