Blackbox Testing

Equivalence Class & Boundary Value Testing

Use Case 1: Log-in Account

Equivalence Class for Email Address:

Valid EC	Existing Email Address
Invalid EC	Invalid / non-existing Email Address / Empty field

Equivalence Class for Password:

Valid EC	Correct Password
Invalid EC	Wrong Password / Empty field

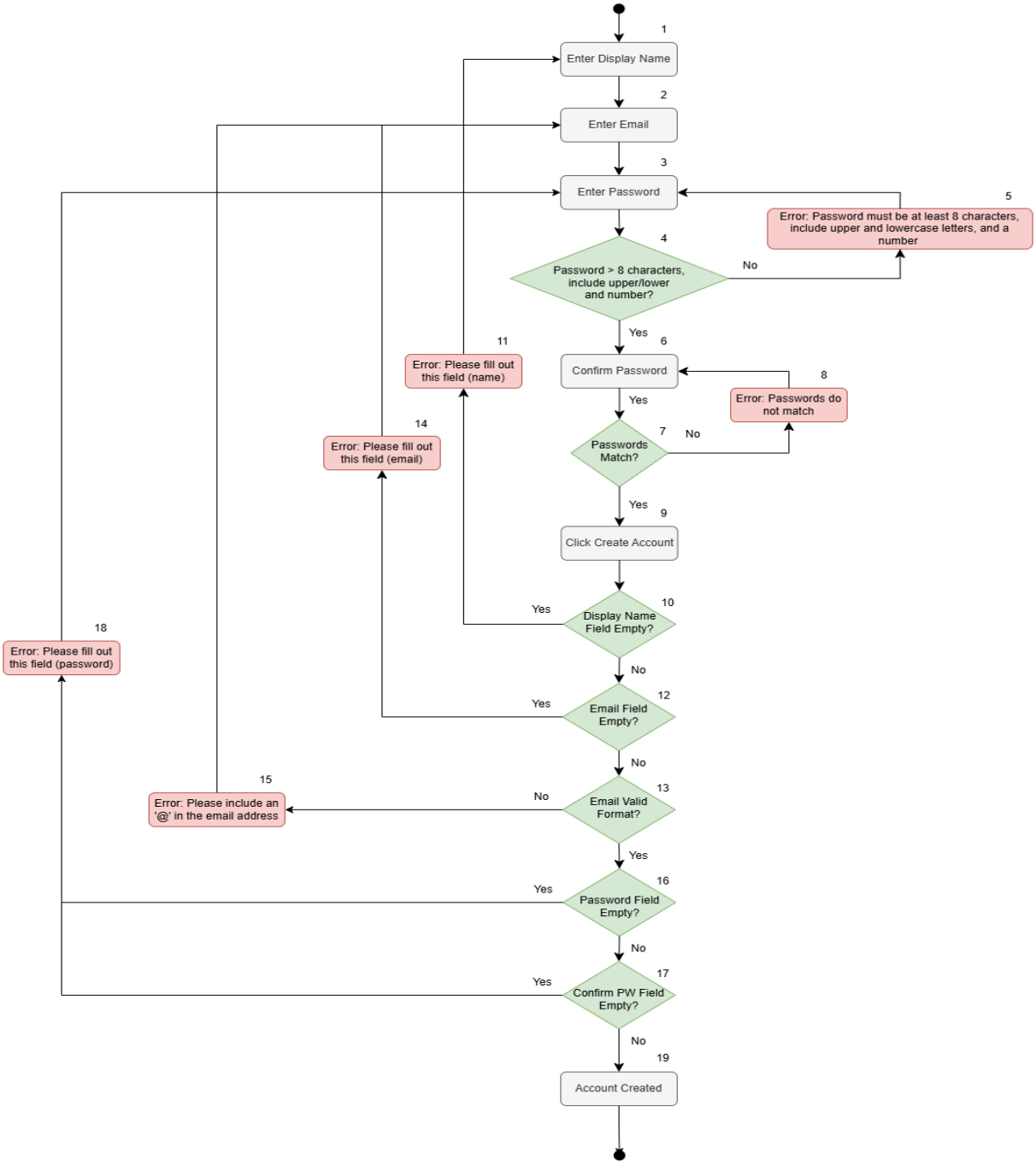
Test Case 1	Invalid Credential				
Test Scenario	Log-in Account			**Test Case ID**	Login-1
Test Description	Login with invalid credentials. Assume valid credentials with email “test@test.com” and password “P@ssw0rd!”			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Email	Password	Expected Output	Actual Output	Test Result
1	test (invalid email address)	P@ssw0rd!	Error message: Please include an ‘@’ in the email address	Error message: Please include an ‘@’ in the email address	Pass
2	invalid@test.com(non-existing email address)	P@ssw0rd!	Error message: Invalid email or password	Error message: Invalid email or password	Pass
3	Empty field	P@ssw0rd!	Error message: Please fill out this field	Error message: Please fill out this field	Pass
4	test@test.com	InvalidPW (wrong password)	Error message: Invalid email or password	Error message: Invalid email or password	Pass
5	test@test.com	Empty field	Error message: Please fill out this field	Error message: Please fill out this field	Pass

Test Case 2	Successful Login				
Test Scenario	Log-in Account			**Test Case ID**	Login-2
Test Description	Login with valid credentials. Assume valid credentials with email “test@test.com” and password “P@ssw0rd!”			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Email	Password	Expected Output	Actual Output	Test Result
1	test@test.com	P@ssw0rd!	Redirected to dashboard	Redirected to dashboard	Pass

Whitebox Testing

Control Flow Testing

Use case 1: Register Account



No.	Basis Path	Description
1	1>2>3>4>5	Invalid Password format
2	1>2>3>4>6>7>8	Passwords do not match
3	1>2>3>4>6>7>9>10>11	Empty Display Name field
4	1>2>3>4>6>7>9>10>12>14	Empty Email field
5	1>2>3>4>6>7>9>10>12>13>15	Invalid Email format
6	1>2>3>4>6>7>9>10>12>13>16>18	Empty Password field
7	1>2>3>4>6>7>9>10>12>13>16>17>18	Empty Confirm Password field
8	1>2>3>4>6>7>9>10>12>13>16>17>19	Successful Registration

Test Case 1	Invalid Password format				
Test Scenario	Register Account			**Test Case ID**	Register-1
Test Path	1>2>3>4>5			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Enter invalid password	Valid Display Name and Email	Error: Password must be at least 8 characters, include upper and lowercase letters, and a number	Error: Password must be at least 8 characters, include upper and lowercase letters, and a number	Pass

Test Case 2	Passwords do not match				
Test Scenario	Register Account			**Test Case ID**	Register-2
Test Path	1>2>3>4>6>7>8			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Different password in Confirm Password field	Valid Display Name, Email and Password	Error: Passwords do not match	Error: Passwords do not match	Pass

Test Case 3	Empty Display Name field				
Test Scenario	Register Account			**Test Case ID**	Register-3
Test Path	1>2>3>4>6>7>9>10>11			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Leave Display Name field blank and click Create Account	Valid Email, Password and Confirm Password	Error: Please fill out this field	Error: Please fill out this field	Pass

Test Case 4	Empty Email field				
Test Scenario	Register Account			**Test Case ID**	Register-4
Test Path	1>2>3>4>6>7>9>10>12>14			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Leave Email field blank and click Create Account	Valid Display Name, Password and Confirm Password	Error: Please fill out this field	Error: Please fill out this field	Pass

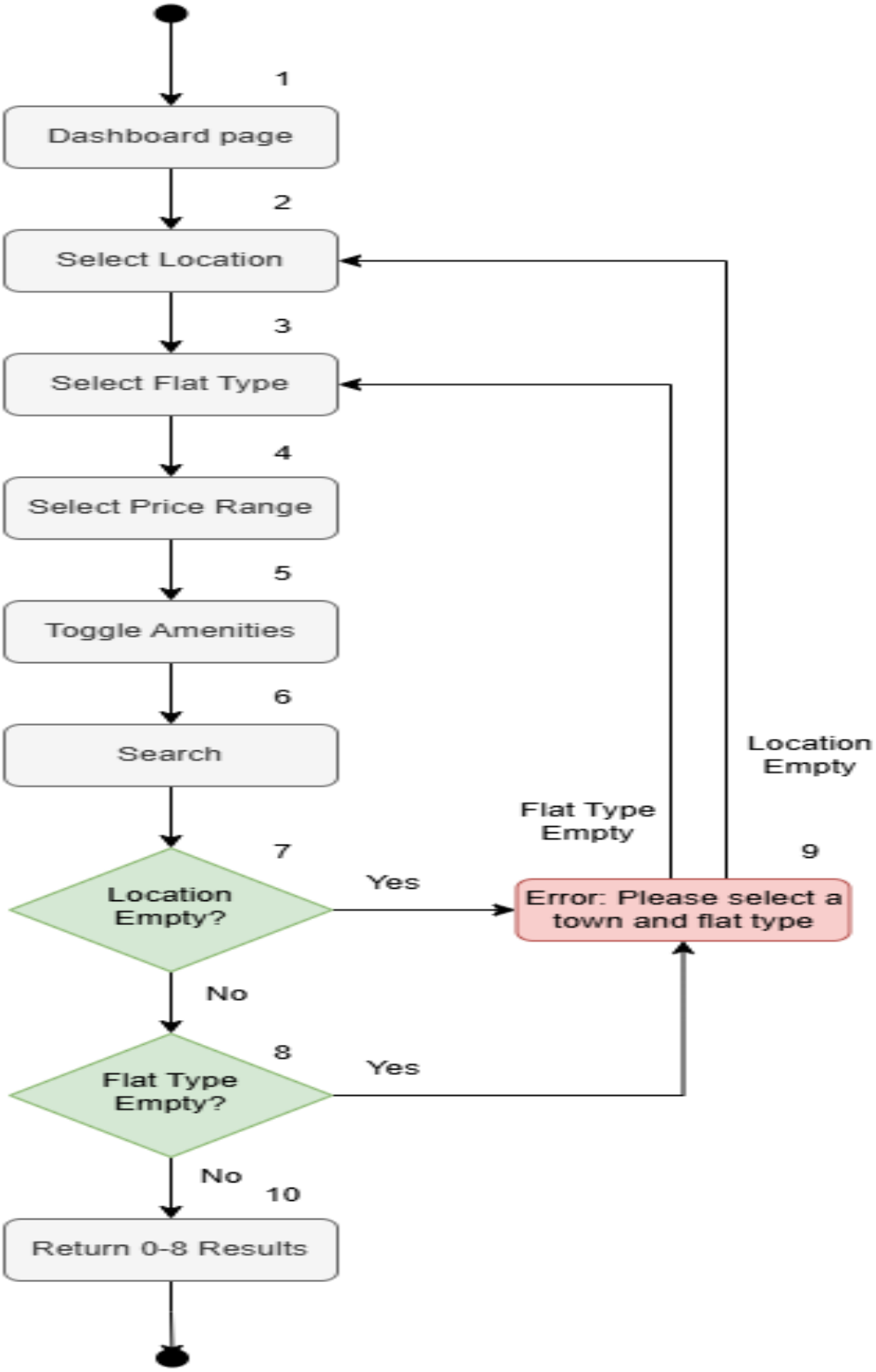
Test Case 5	Invalid Email format				
Test Scenario	Register Account			**Test Case ID**	Register-5
Test Path	1>2>3>4>6>7>9>10>12>13>15			**Test Priority**	Medium
Pre-requisite	Stable Internet Connection			**Post-requisite**	NA
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Input an invalid email and click Create Account	Valid Display Name, Password and Confirm Password	Error: Please include an '@' in the email address	Error: Please include an '@' in the email address	Pass

Test Case 6	Empty Password field				
Test Scenario	Register Account		**Test Case ID**	Register-6	
Test Path	1>2>3>4>6>7>9>10>12>13>16>18		**Test Priority**	Medium	
Pre-requisite	Stable Internet Connection		**Post-requisite**	NA	
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Leave Password field AND Confirm Password field empty and click Create Account	Valid Display Name and Email (Confirm password field must be empty or test case 2 will trigger)	Error: Please fill out this field	Error: Please fill out this field	Pass

Test Case 7	Empty Confirm Password field				
Test Scenario	Register Account		**Test Case ID**	Register-7	
Test Path	1>2>3>4>6>7>9>10>12>13>16>17>19		**Test Priority**	Medium	
Pre-requisite	Stable Internet Connection		**Post-requisite**	NA	
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Leave Confirm Password field empty and click Create Account	Valid Display Name, Email and Password	Error: Please fill out this field	Error: Please fill out this field	Pass

Test Case 8	Successful Registration				
Test Scenario	Register Account		**Test Case ID**	Register-8	
Test Path	1>2>3>4>6>7>9>10>12>13>16>17>18		**Test Priority**	High	
Pre-requisite	Stable Internet Connection		**Post-requisite**	NA	
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	All valid fields and click Create Account	Valid Display Name, Email, Password and Confirm Password	Create account, redirect to verify email	Create account, redirect to verify email	Pass

Use case 2: Find HDB



No.	Basis Path	Description
1	1>2>3>4>5>6>7>9	Empty Location field
2	1>2>3>4>5>6>7>8>9	Empty Flat Type field
3	1>2>3>4>5>6>7>8>9>10	Successful Search

Test Case 1	Empty Location field				
Test Scenario	Find HDB		**Test Case ID**	Find-1	
Test Path	1>2>3>4>5>6>7>9		**Test Priority**	Medium	
Pre-requisite	Stable Internet Connection Be inside dashboard page		**Post-requisite**	NA	
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Leave Location field blank and click Search	Valid Flat Type, Price Range and no amenities selected	Error: Please select a town and flat type	Error: Please select a town and flat type	Pass
2	Leave Location field blank and click Search	Valid Location, Price Range and all amenities selected	Error: Please select a town and flat type	Error: Please select a town and flat type	Pass

Test Case 2	Empty Flat Type field				
Test Scenario	Find HDB		**Test Case ID**	Find-2	
Test Path	1>2>3>4>5>6>7>8>9		**Test Priority**	Medium	
Pre-requisite	Stable Internet Connection Be inside dashboard page		**Post-requisite**	NA	
No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	Leave Flat Type field blank and click Search	Valid Location, Price Range and no amenities selected	Error: Please select a town and flat type	Error: Please select a town and flat type	Pass
2	Leave Flat Type field blank and click Search	Valid Location, Price Range and all amenities selected	Error: Please select a town and flat type	Error: Please select a town and flat type	Pas

Test Case 3	Successful Search				
Test Scenario	Find HDB		**Test Case ID**	Find-3	
Test Path	1>2>3>4>5>6>7>8>9>10		**Test Priority**	High	
Pre-requisite	Stable Internet Connection Be inside dashboard page		**Post-requisite**	NA	

No.	Action	Inputs	Expected Output	Actual Output	Test Result
1	All valid fields and click Search (ANG MO KIO, 4 ROOM, 350k – 700k)	Valid Location, Flat Type, Price Range and no amenities selected	Returns up to 8 results of cheapest HDBs meeting all criteria	Returns 8 results	Pass
2	All valid fields and click Search (ANG MO KIO, 4 ROOM, 350k – 700k)	Valid Location, Flat Type, Price Range and all amenities selected	Returns up to 8 results of cheapest HDBs meeting all criteria	Returns no results (filters too strict)	Pass