

SC0006 - Software Engineering

Group Project Report (Software Testing)

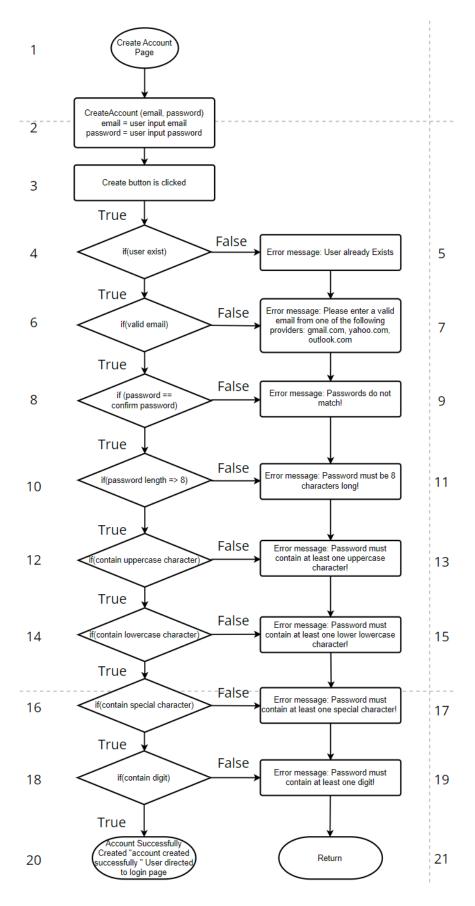
Table No.: C14

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Test Case 1 White box (Account Creation Process)



Cyclomatic Complexity: 9 (8 Decision Points + 1)

Baseline path: 1,2,3,4,6,8,10,12,14,16,18,20

Basis Path 1: 1,2,3,4,5,21

Basis Path 2: 1,2,3,4,<u>6</u>,7,21

Basis Path 3: 1,2,3,4,6,**8**,9,21

Basis Path 4: 1,2,3,4,6,8,<u>**10**</u>,11,21

Basis Path 5: 1,2,3,4,6,8,10,**12**,13,21

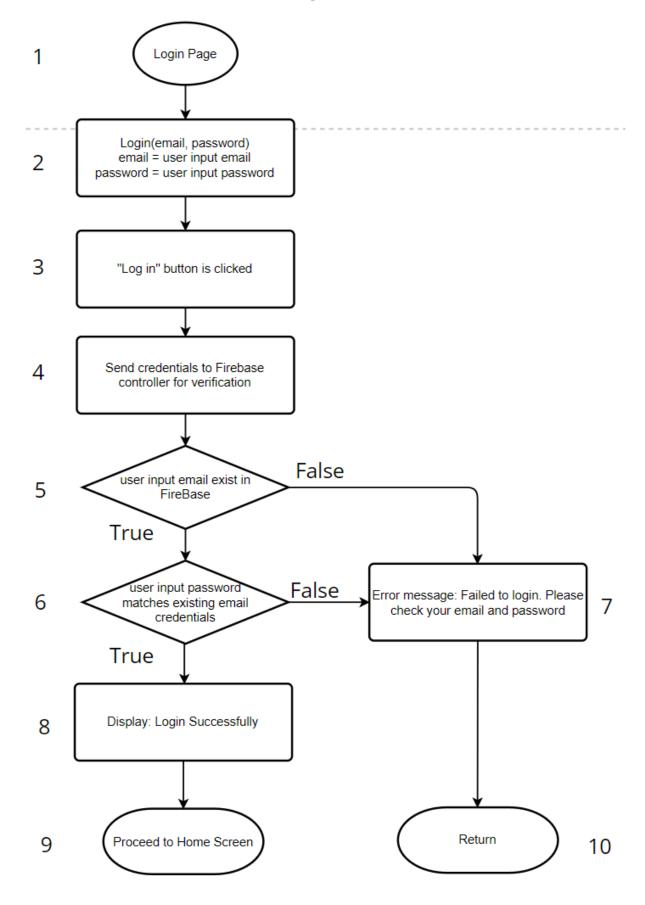
Basis Path 6: 1,2,3,4,6,8,10,12,<u>14</u>,15,21

Basis Path 7: 1,2,3,4,6,8,10,12,14,<u>16</u>,17,21

Basis Path 8: 1,2,3,4,6,8,10,12,14,16,<u>18</u>,19,21

| Email | Password | Confirm Password | Expected Result | Actual Result |
|------------------------|----------|---------------------|--|---|
| newvaliduser@gmail.com | 1234Abc@ | 1234Abc@ | Account created successfully | Account created successfully |
| newvaliduser@gmail.com | 1234Abc@ | 1234Abc@ | User already Exists | User already Exists |
| invaliduser@vmail.com | 1234Abc@ | 1234Abc@ | Please enter a valid email from one of the following providers: gmail.com, yahoo.com, outlook.com Please enter a valid efrom one of the follow providers: gmail.com, yahoo.com, outlook.com | |
| validuser@gmail.com | 1234Abc@ | 1234Abc! | Passwords do not match! | Passwords do not match! |
| validuser@gmail.com | 1234Ab! | 1234Ab! | Password must be 8 characters long! | Password must be 8 characters long! |
| validuser@gmail.com | 1234abc@ | 1234abc@ | Password must contain at least one uppercase character! | Password must contain at least one uppercase character! |
| validuser@gmail.com | 1234ABC@ | 1234ABC@ | Password must contain at least one lower lowercase character! | Password must contain at least one lower lowercase character! |
| validuser@gmail.com | 1234Abcd | 1234Abcd | Password must contain at least one special character! | Password must contain at least one special character! |
| validuser@gmail.com | abcdAbc@ | abcdAbc@ | Password must contain at least one digit! | Password must contain at least one digit! |

Test Case 2 White box (User Login Process)



Cyclomatic Complexity: 4 (3 Decision Points + 1)

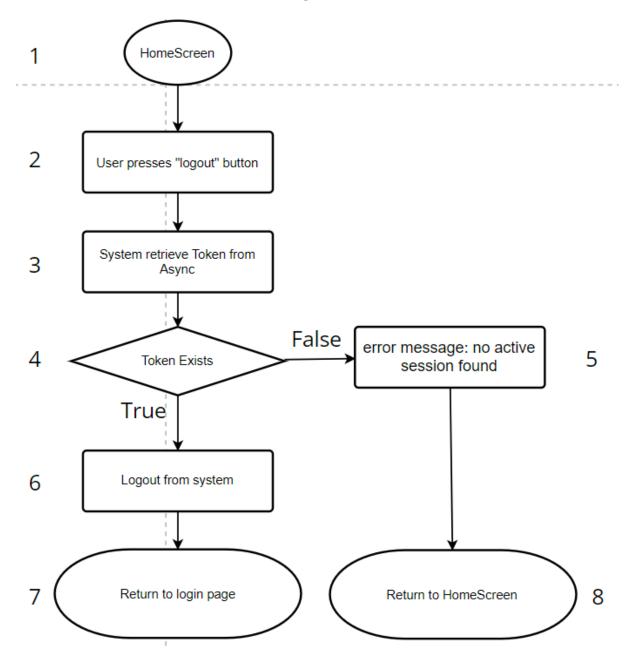
Baseline path: 1,2,3,4,5,6,8,9
Basis Path 1: 1,2,3,4,5,6,7,10
Basis Path 2: 1,2,3,4,5,6,7,10

Valid email: valid email: validuser@gmail.com

Valid password: 1234Abc@

| Email | Password | Expected Result | Actual Result |
|-------------------------------|----------|---|---|
| validuser@g mail.com | 1234Abc@ | Login successfully | Login successfully |
| invaliduser @vmail.co m | 1234Abc@ | Failed to login. Please check your email and password | Failed to login. Please check your email and password |
| validuser@g mail.com | 2468Abc@ | Failed to login. Please check your email and password | Failed to login. Please check your email and password |

Test Case 3 White box (User Logout Process)

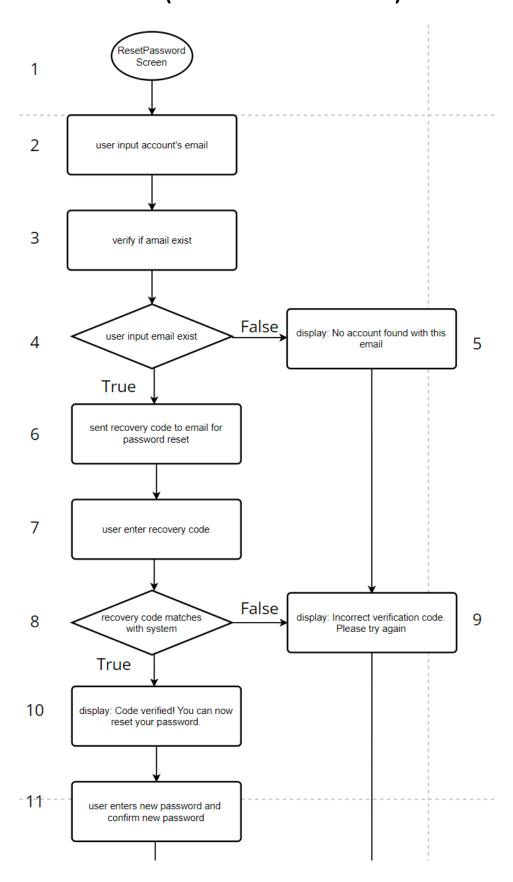


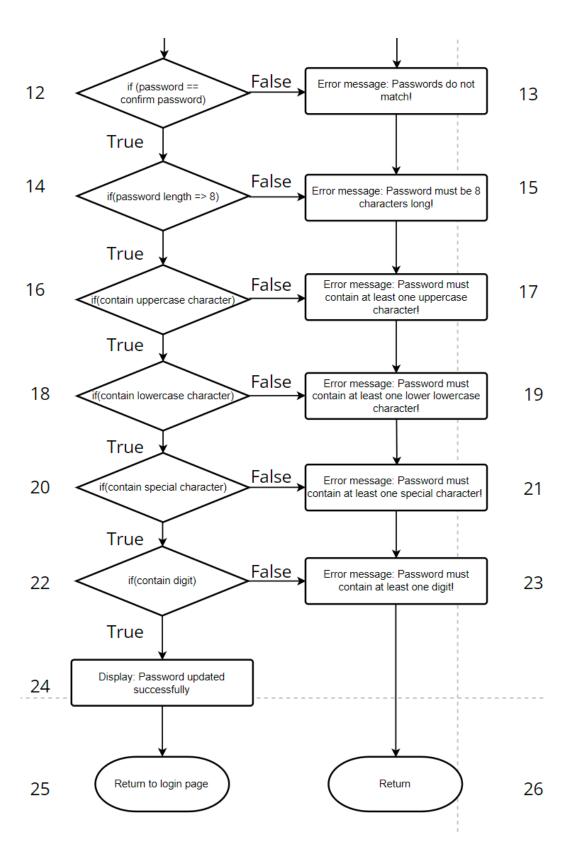
Cyclomatic Complexity: 2 (1 Decision Point +1)

Baseline Path: 1,2,3,4,6,7
Basis Path 1: 1,2,3,4,5,8

| Token Exist? Expected Result | | Actual Result | |
|------------------------------|-------------------------|-------------------------|--|
| Yes | Logged out successfully | Logged out successfully | |
| No | No active session found | No active session found | |

Test Case 4 White box (Reset Password Process)





Cyclomatic Complexity: 9 (8 Decision point + 1)

Baseline Path: 1,2,3,4,6,7,8,10,11,12,14,16,18,20,22,24,25

Basis Path 1: 1,2,3,**4**,5,26

Basis Path 2: 1,2,3,4,6,7,**8**,9,26

Basis Path 3: 1,2,3,4,6,7,8,10,11,<u>12</u>,13,26

Basis Path 4: 1,2,3,4,6,7,8,10,11,12,**14**,15,26

Basis Path 5: 1,2,3,4,6,7,8,10,11,12,14,<u>16</u>,17,26

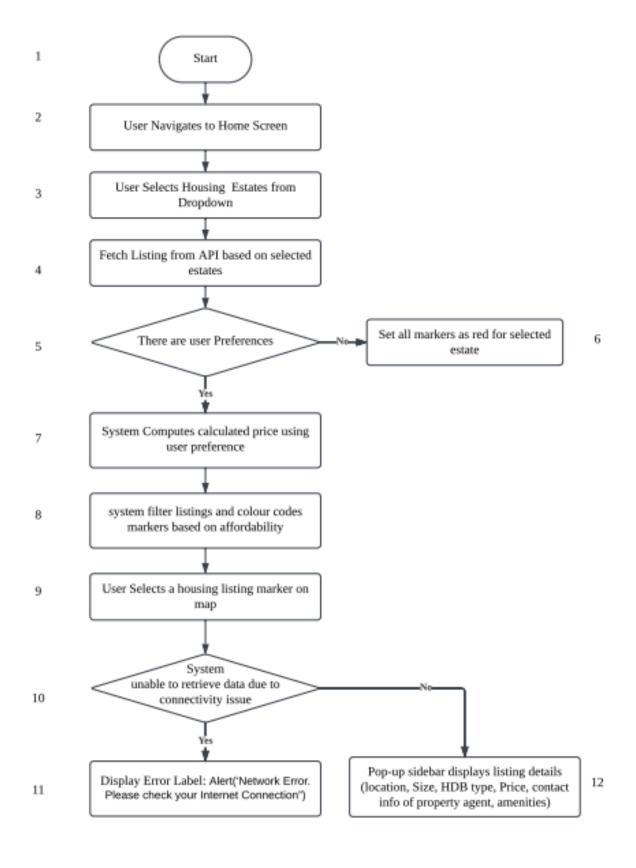
Basis Path 6: 1,2,3,4,6,7,8,10,11,12,14,16,<u>18</u>,19,26

Basis Path 7: 1,2,3,4,6,7,8,10,11,12,14,16,18,<u>20</u>,21,26

Basis Path 8: 1,2,3,4,6,7,8,10,11,12,14,16,18,20,**22**,23,26

| Email | Recovery code | Input recovery code | Password | Confirm Password | Expected Result | Actual Result |
|---------------------------|---------------|---------------------------|----------|---------------------|---|--|
| validuser@g mail.com | 272138 | 272138 | 1234Abc@ | 1234Abc@ | Password updated successfully! | Password updated successfully! |
| invaliduser@ vmail.com | - | - | - | - | No account found with this email | No account found with this email |
| validuser@g mail.com | 456130 | 458130 | - | - | Incorrect verification code. Please try again. | Incorrect verification code. Please try again. |
| validuser@g mail.com | 658009 | 658009 | 1234Abc@ | 1234Abc! | Passwords do not match! | Passwords do not match! |
| validuser@g mail.com | 658009 | 658009 | 1234Ab! | 1234Ab! | Password must be 8 characters long! | Password must be 8 characters long! |
| validuser@g mail.com | 658009 | 658009 | 1234abc@ | 1234abc@ | Password must contain at least one uppercase character! | Password must contain at least one uppercase character! |
| validuser@g mail.com | 658009 | 658009 | 1234ABC@ | 1234ABC@ | Password must contain at least one lower lowercase character! | Password must contain at least one lower lowercase character! |
| validuser@g mail.com | 658009 | 658009 | 1234Abcd | 1234Abcd | Password must contain at least one special character! | Password must contain at least one special character! |
| validuser@g mail.com | 658009 | 658009 | abcdAbc@ | abcdAbc@ | Password must contain at least one digit! | Password must contain at least one digit! |

Test Case 5 White box (Display Listings Process)



Cyclomatic Complexity: 3 (2 Decision Point + 1)

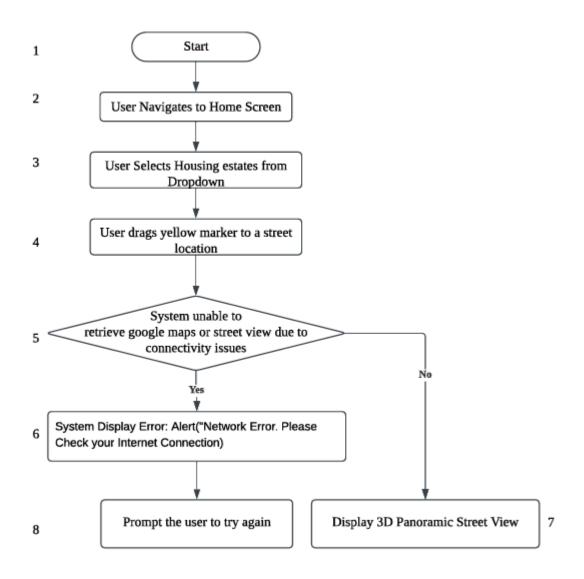
Baseline Path: 1,2,3,4,5,7,8,9,10,12

Basis Path 1: 1,2,3,4,<u>5</u>,6

Basis Path 2: 1,2,3,4,5,7,8,9,<u>**10**</u>,11

| User Preference | System unable to retrieve data due to Connectivity Issue | Expected Result | Actual Result |
|--------------------|--|---|---|
| Yes | No | Pop-up Sidebar Displays listing Details | Pop-up Sidebar Displays listing Details |
| No | - | Markers Set red for selected Estate | Markers Set red for selected Estate |
| yes | yes | Alert('Network Error. Please check your Internet Connection") | Alert('Network Error. Please check your Internet Connection") |

Test Case 5.1 (White Box) (Display Street View Process)

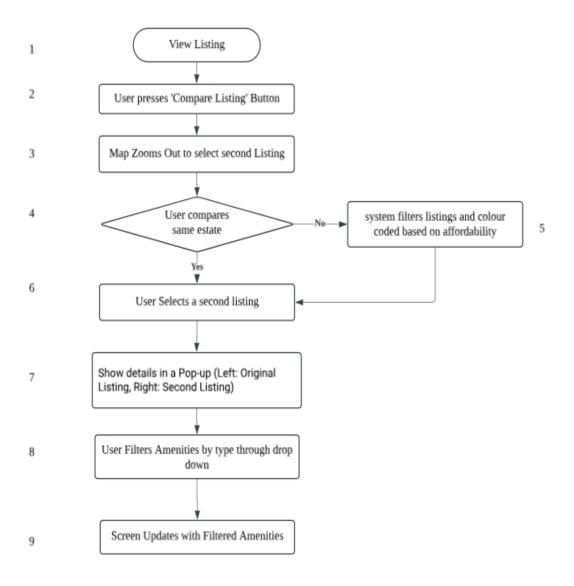


Cyclomatic Complexity: 2 (1 Decision Point +1)

Baseline Path: 1,2,3,4,5,<u>7</u> Basis Path 1: 1,2,3,4,5,<u>6</u>,8

| Connectivity Issue | Expected Result | Actual Result |
|--------------------|---|---|
| No | 3D Panoramic Street View | 3D Panoramic Street View |
| Yes | Alert('Network Error. Please check your Internet Connection") | Alert('Network Error. Please check your Internet Connection") |

Test Case 5.2 White Box (Compare Listing Process)

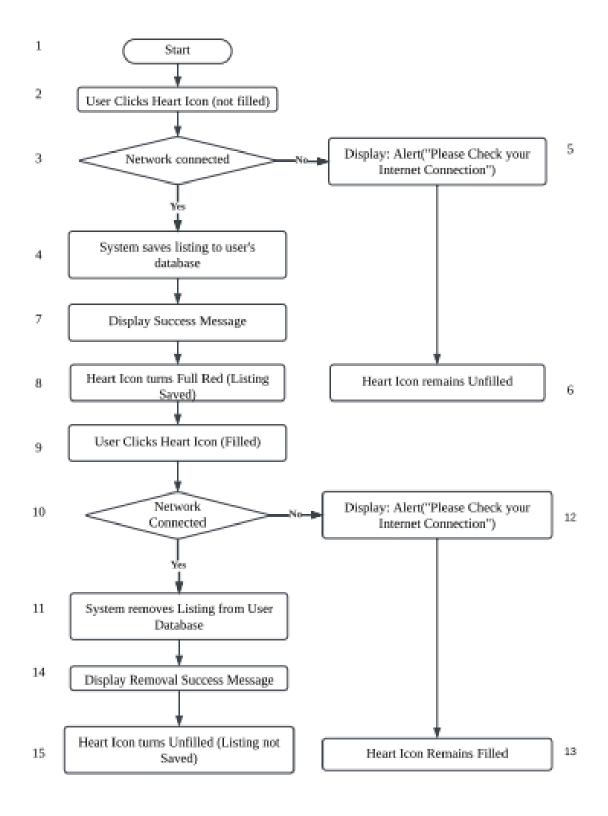


Cyclomatic Complexity: 2 (1 Decision Points + 1)

Baseline Path:1,2,3,4,6,7,8,9 Basis Path 1: 1,2,3,4,<u>5</u>,6,7,8,9

| User Compares same Estate | Expected output | Actual Output |
|---------------------------|---|---|
| Yes | Updated screen with Filtered Amenities | Updated screen with Filtered Amenities |
| No | Updated screen with Filtered Amenities | Updated screen with Filtered Amenities |

Test Case 5.3 White Box (Bookmark Listing from Pop-up)



Cyclomatic Complexity: 3 (2 Decision Points + 1)

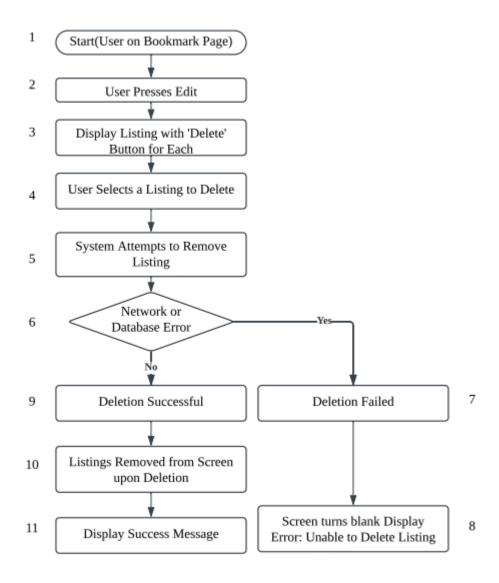
Baseline Path: 1,2,3,4,7,8,9,10,11,14,15

Basis Path 1: 1,2,<u>3</u>,5,6

Basis Path 2: 1,2,3,4,7,8,9,<u>10</u>,12,13

| Input | Connectivity Issue | Expected Result | Actual Result |
|------------------------------------|--------------------|---|---|
| User Clicks unfilled Heart Icon | No | Heart Icon Filled | Heart Icon Filled |
| User Clicks Unfilled Heart Icon | Yes | Alert('Network Error. Please check your Internet Connection") Heart Icon Remains Unfilled | Alert('Network Error. Please check your Internet Connection") Heart Icon Remains Unfilled |
| User Clicks Filled Heart Icon | No | Heart Icon Unfilled | Heart Icon Unfilled |

Test Case 6 White Box (Delete Listing from Bookmark Page)



Cyclomatic Complexity: 2 (1 Decision Point + 1)

Baseline Path: 1,2,3,4,5,6,9,10,11

Basis Path 1: 1,2,3,4,5,6,7,8

| Database Error | atabase Error Expected Result A | |
|----------------|---------------------------------|-------------------------------|
| No | Success Message | Success Message |
| Yes | "Unable to Delete Listing" | "Unable to Delete Listing" |

Test Case 7 Black Box (User Preference Field Testing)

7.1 BB Equivalent Class Test for empty fields

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Type | Loan Type | Expected Results | Test Result |
|-------------------|--------------------|-------------------|----------|------------------------|---|---|
| \$5,000 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Approve (Preference s saved successfully .) | Approve (Preference s saved successfully .) |
| \$5,000 | \$750,000 | \$100,000 | 4-Room | (Empty) | Reject (Please fill out all fields.) | Reject (Please fill out all fields.) |

Reason for choosing ECT: This test focuses on whether fields are filled or left empty, which are distinct classes of input (filled vs. empty). Since we are testing whether the system correctly handles these different classes, Equivalence Class Testing is appropriate.

Requirements: The system requires all fields to be filled for preferences to be saved successfully.

Valid Class: All Fields Filled. The inputs belong to the class where all required fields have values. The system should accept and process these inputs successfully.

Invalid Class: At Least One Field Empty. The inputs belong to the class where one or more required fields are empty. The system should reject these inputs and prompt the user to fill out all fields.

7.2 BB Boundary Value Test for invalid Salary

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Type | Loan Type | Expected Results | Test Result |
|---------------------------------|--------------------|-------------------|----------|------------------------|--|--|
| \$0(Invalid) | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Reject (Salary must be a positive number with up to 2 decimal places) | Reject (Salary must be a positive number with up to 2 decimal places) |
| -\$1000 (Out of boundary) | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Reject (Salary must be a positive number with up to 2 decimal places) | Reject (Salary must be a positive number with up to 2 decimal places) |

Reason for choosing BVT: These test cases focus on the boundary values of the Monthly Salary input, specifically the lower limit where the salary transitions from invalid to valid. By testing at the boundary (\$0) and just beyond it (negative values), Boundary Value Testing is the appropriate technique.

Requirements: The system requires Monthly Salary to be a positive number with up to 2 decimal places.

Valid Boundary: Any positive number greater than \$0 (e.g., \$0.01).

Invalid Boundaries:

- Salary at Zero (\$0): At the boundary where the salary transitions from positive to non-positive.
- Negative Salary (-\$1,000): Below the minimum boundary of acceptable salary values.

7.3 BB Boundary Value Test for invalid preferred price

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Type | Loan Type | Expected Results | Test Result |
|-------------------|----------------------------------|-------------------|----------|------------------------|--|--|
| \$5,000 | 0 (Invalid) | \$100,000 | 4-Room | HDB Housing Loan | Reject (Preferred Price must be a positive number with up to 2 decimal places) | Reject (Preferred Price must be a positive number with up to 2 decimal places) |
| \$5,000 | \$199999 (Out of Boundary) | \$100,000 | 4-Room | HDB Housing Loan | Reject (Preferred price must be \$200,000 or more) | Reject (Preferred price must be \$200,000 or more) |

Reason for choosing BVT: These values focus on boundary points related to the Preferred Price input. The boundaries are specifically defined as below minimum (0) and just below the acceptable minimum (\$200,000), making it suitable for Boundary Value Testing.

Requirements: The system requires the Preferred Price to be at least \$200,000 and a positive value.

Valid Boundary: Preferred Price is \$200,000 or higher with up to two decimal places.

Invalid Boundary: Preferred Price below \$200,000, zero, negative values, or non-numeric entries.

7.4 BB Boundary Value Test for invalid CPF Balance

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Type | Loan Type | Expected Results | Test Result |
|-------------------|--------------------|-------------------|----------|------------------------|--|--|
| \$5,000 | \$750,000 | 0 (Invalid) | 4-Room | HDB Housing Loan | Reject (CPF Balance must be a positive number with up to 2 decimal places.) | Reject (CPF Balance must be a positive number with up to 2 decimal places.) |

Reason for choosing BVT: The test case here focuses on the boundary condition for CPF OA Balance where the minimum allowable positive boundary is not met (0 instead of a positive amount). Since this is the lower boundary of valid input, it is ideal for Boundary Value Testing.

Requirements: The system requires the CPF OA Balance to be a positive number.

Valid Boundary: CPF OA Balance is a positive number, above \$0 with up to two decimal places.

Invalid Boundary: CPF OA Balance is zero, negative, or non-numeric.

7.5 BB Equivalent Class Test for invalid fields

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Туре | Loan Type | Expected Results | Test Result |
|-----------------------|--------------------------|------------------------|----------|------------------------|---|---|
| \$5,000 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Approve (Preference s saved successfully .) | Approve (Preference s saved successfully .) |
| abc (Not a number) | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Reject (Salary must be a positive number with up to 2 decimal places.) | Reject (Salary must be a positive number with up to 2 decimal places.) |
| \$5,000 | \$\$\$ (Not a number) | \$100,000 | 4-Room | HDB Housing Loan | Reject (Preferred Price must be a positive number with up to 2 decimal places.) | Reject (Preferred Price must be a positive number with up to 2 decimal places.) |
| \$5,000 | \$750,000 | 123a (Not a number) | 4-Room | HDB Housing Loan | Reject (CPF Balance must be a positive number with up to 2 decimal places.) | Reject (CPF Balance must be a positive number with up to 2 decimal places.) |

Reason for choosing ECT: These cases involve inputs that fall into classes of invalid data types or non-numeric values (e.g., "abc", "\$\$\$", "123a"). Since we are testing types (numeric vs. non-numeric) rather than values near a boundary, these cases are ideal for Equivalence Class Testing.

Requirements: The system requires Monthly Salary, Preferred Price, and CPF OA Balance to be numeric values with up to two decimal places.

Valid Class: Monthly Salary, Preferred Price, and CPF OA Balance are non-zero, positive numbers with up to two decimal places.

Invalid Class: Inputs contain non-numeric characters, symbols, or mixed alphanumeric characters.

7.6 BB Boundary Value Test for invalid loans

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Type | Loan Type | Expected Results | Test Result |
|-------------------|--------------------|-------------------|----------|--------------------------------|--|--|
| \$7,001 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Reject (HDB Loan is only allowed if salary is less than or equal to 7000.) | Reject (HDB Loan is only allowed if salary is less than or equal to 7000.) |
| \$7,001 | \$750,000 | \$100,000 | 4-Room | DBS 5 Year Fixed Package | Approve (Preference s saved successfully .) | Approve (Preference s saved successfully .) |

Reason for choosing BVT: These cases test the boundary condition for choosing an HDB Housing Loan based on Monthly Salary. The boundary value is \$7,000, above which HDB Housing Loan is disallowed. Testing just above this threshold (e.g., \$7,001) makes it suitable for Boundary Value Testing.

Requirements: The system allows an HDB Housing Loan only if Monthly Salary is \$7,000 or less.

Valid Boundary: Monthly Salary is \$7,000, non-zero, non-negative, allowing for the HDB Housing Loan.

Invalid Boundary: Monthly Salary exceeds \$7,000 with an HDB Housing Loan selected.

7.7 BB Equivalent Class Test for Grants

| Monthly Salary | Preferred Price | CPF OA Balance | HDB Type | Loan Type | Expected Results | Test Result |
|-------------------|--------------------|-------------------|----------|------------------------|--|--|
| \$7,001 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Not eligible for any grants. | Not eligible for any grants. |
| \$7,000 | \$750,000 | \$100,000 | 5-Room | HDB Housing Loan | Eligible for: HDB Singles Grant. Amount: \$25000 | Eligible for: HDB Singles Grant. Amount: \$25000 |
| \$4,001 | \$750,000 | \$100,000 | 5-Room | HDB Housing Loan | Eligible for: HDB Singles Grant. Amount: \$25000 | Eligible for: HDB Singles Grant. Amount: \$25000 |
| \$7,000 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Eligible for: HDB Singles Grant. Amount: \$40000 | Eligible for: HDB Singles Grant. Amount: \$40000 |
| \$4,001 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Eligible for: HDB Singles Grant. Amount: \$40000 | Eligible for: HDB Singles Grant. Amount: \$40000 |
| \$4,000 | \$750,000 | \$100,000 | 5-Room | HDB Housing Loan | Eligible for: HDB Singles Grant and Enhanced CPF Housing Grant. Amount: \$85000 | Eligible for: HDB Singles Grant and Enhanced CPF Housing Grant. Amount: \$85000 |
| \$4000 | \$750,000 | \$100,000 | 4-Room | HDB Housing Loan | Eligible for: HDB Singles Grant and Enhanced CPF Housing Grant. Amount: \$100000 | Eligible for: HDB Singles Grant and Enhanced CPF Housing Grant. Amount: \$100000 |

Reason for choosing ECT: These cases fall under distinct categories of grant eligibility based on income, housing type, and grant policies. The test values are selected to cover different eligibility classes, making Equivalence Class Testing suitable for these cases.

Requirements: The system determines eligibility for grants based on the monthly salary and the type of HDB unit.

Valid Class: Specific monthly salaries and housing types meet criteria for certain grants.

Invalid Class: Salaries exceeding grant eligibility thresholds, or ineligible housing types, receive no grants.

Grants:

More than \$7000: no grants

Less than or equals to \$7000 but more than \$4000 but 5R or Ex: SG \$25000

Less than or equals to \$7000 but more than \$4000: SG \$40000

Less than or equals \$4000 but 5R or Ex: SG \$25000 + EHG \$60000

Less than or equals to \$4000: EHG \$60000 + SG \$40000

It can be noted that BVT can also be used to test for this test case. Given that for each class, there are boundary values in which the class falls under. Anything above or below the threshold belongs to another class.

No grants:

- Lower boundary (\$7001)

HDB Singles Grant (\$25,000) for 5 Rooms or EC:

- Lower boundary (\$4001)
- Upper boundary (\$7000)

HDB Singles Grant (\$40,000) for 4 Rooms or smaller:

- Lower boundary (\$4001)
- Upper boundary (\$7000)

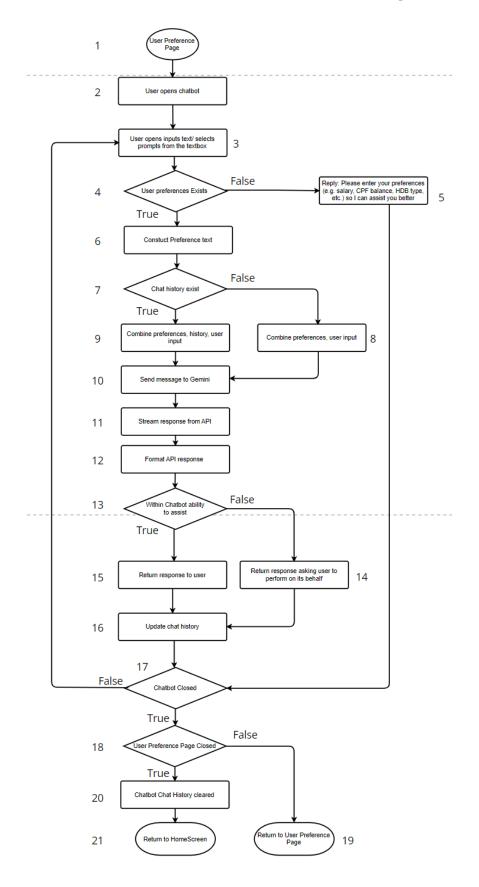
HDB Singles Grant (\$25,000) & Enhanced Housing Grant (\$60,000) for 5 Rooms or EC:

- Upper boundary (\$4000)

HDB Singles Grant (\$40,000) & Enhanced Housing Grant (\$60,000) for 4 Rooms or smaller:

- Upper boundary (\$4000)

Test Case 8 White box (Interactive Chatbot Testing)



Cyclomatic Complexity: 6 (5 Decision Point + 1)

Baseline Path: 1,2,3,4,6,7,9,10,11,12,13,15,16,17,18,20,215

Basis Path 1: 1,2,3,4,<u>5</u>,17,18,20,21

Basis Path 2: 1,2,3,4,6,7,8,10,11,12,13,15,16,17,18,20,21
Basis Path 3: 1,2,3,4,6,7,9,10,11,12,13,14,16,17,18,20,21

Basis Path 4: 1,2,3,4,6,7,9,10,11,12,13,15,16,<u>17,3,4,6,7,9,10,11,12,13,15,16,17,18,20,21</u>

Basis Path 5: 1,2,3,4,6,7,9,10,11,12,13,15,16,17,18,<u>19</u>

| User Preferences Exist | Chat History Exist | Within ability to assist | Chatbot Closed | User Preference Page Closed | Expected Result | Actual Result |
|------------------------------|-----------------------|--------------------------|-------------------|-----------------------------------|--|--|
| Yes | Yes | Yes | No | No | Customised response which considers user's current and previous enquiries, and their financial and housing preferences | Customised response which considers user's current and previous enquiries, and their financial and housing preferences |
| No | - | - | No | No | Reply: Please enter your preferences (e.g. salary, CPF balance, HDB type, etc.) so I can assist you better | Reply: Please enter your preferences (e.g. salary, CPF balance, HDB type, etc.) so I can assist you better |
| Yes | No | Yes | No | No | Customised response which considers user's current enquiry, and their financial and housing preferences | Customised response which considers user's current enquiry, and their financial and housing preferences |
| Yes | Yes | No | No | No | Response indicating that it is unable to assist, and to contact flatfinder@gmail.com for further enquiries | Response indicating that it is unable to assist, and to contact flatfinder@gmail.com for further enquiries |
| Yes | Yes | - | Yes | No | User able to reopen chatbot with chat history retained | User able to reopen chatbot with chat history retained |
| Yes | Yes | - | - | Yes | Chat history cleared when user opens up the chatbot upon returning to user preference page | Chat history cleared when user opens up the chatbot upon returning to user preference page |