

Test Cases and Testing Results

Black Box Testing

1. Search for carparks
 - a. Generic cases

| Test ID | Scenario | Expected Result | Actual Result |
|---------|---|---|---|
| 1 | Search by 6-digit postal code (searched location) | List of carparks within 500 metres radius of searched location is displayed to the user | List of carparks within 500 metres radius of searched location is displayed to the user |
| 2 | Search by street name (searched location) | List of carparks within 500 metres radius of searched location is displayed to the user | List of carparks within 500 metres radius of searched location is displayed to the user |
| 3 | Search empty string | Popup stating "No results found for search." | Popup stating "No results found for search." |

- b. Specific cases

| Search string | Expected Result | Actual Result |
|-------------------|---|---|
| "530115" (Kovan) | List of carparks within 500 metres radius of an HDB block in Kovan is displayed to the user | List of carparks within 500 metres radius of an HDB block in Kovan is displayed to the user |
| "Nanyang CC" | List of carparks within 500 metres radius of Nanyang CC is displayed to the user | List of carparks within 500 metres radius of Nanyang CC is displayed to the user |
| "NTU" | "No results found" message displayed on results page. (No carparks nearby) | "No results found" message displayed on results page. (No carparks nearby) |
| "abcdefg" | Popup stating "No results found for search." | Popup stating "No results found for search." |
| "" (empty string) | Popup stating "No results found for search." | Popup stating "No results found for search." |

2. Favourites

a. Generic cases

| Test ID | Scenerio | Expected Result | Actual Result |
|---------|--|--|--|
| 1 | Favourite a carpark | The system saves the carpark into the favourite list | The system saves the carpark into the favourite list |
| 2 | Favouriting a carpark that is already favourited | The system removes the carpark from the favourite list | The system removes the carpark from the favourite list |

3. Select Carpark to Visit

a. Generic cases

| Test ID | Scenario | Expected Result | Actual Result |
|---------|---|--|--|
| 1 | Select carpark from search results | Detailed information for carpark when clicked into the selected carpark is displayed to the user | Detailed information for carpark when clicked into the selected carpark is displayed to the user |
| 2 | Select carpark from favourites page | Detailed information for carpark when clicked into the selected carpark is displayed to the user | Detailed information for carpark when clicked into the selected carpark is displayed to the user |
| 3 | Select a carpark with carpark availability below 5% of its capacity | Alert warning stating that the carpark availability is low. | Alert warning stating that the carpark availability is low. |

b. Specific cases

| Selected Carpark | Expected Result | Actual Result |
|---|--|--|
| BLK 109-127 Hougang Avenue 1 (from search results) | Detailed information including distance from the searched location, capacity of the carpark and carpark rate is displayed to the user. | Detailed information including distance from the searched location, capacity of the carpark and carpark rate is displayed to the user. |
| BLK 962A Jurong West Street 91 (from favourites page) | Detailed information including distance from the user, capacity of the carpark and carpark rate is displayed to the user. | Detailed information including distance from the user, capacity of the carpark and carpark rate is displayed to the user. |
| Low avail... | Alert warning stating that the carpark availability is low. | Alert warning stating that the carpark availability is low. |

4. Unselect Carpark to Visit

a. Generic cases

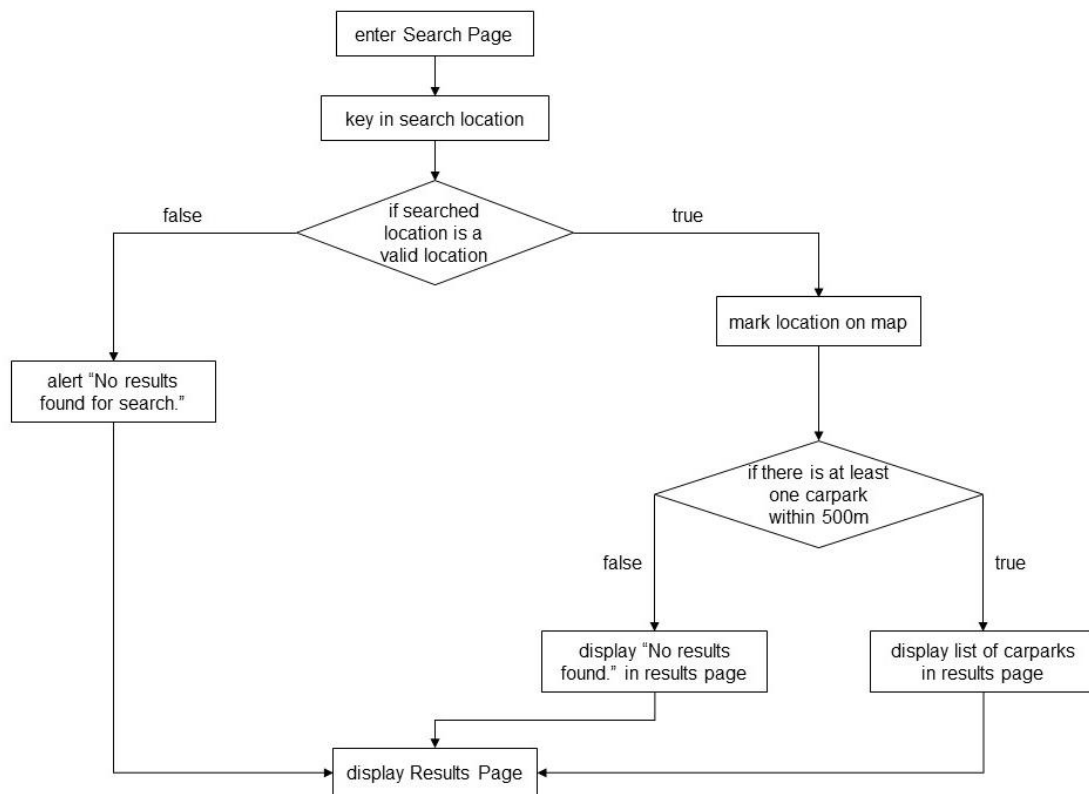
| Test ID | Scenario | Expected Result | Actual Result |
|---------|--|-----------------------------------|-----------------------------------|
| 1 | Unselect carpark to visit (carpark is selected from search results) | Return to the search result page. | Return to the search result page. |
| 2 | Unselect carpark to visit (carpark is selected from favourites page) | Return to the favourites page. | Return to the favourites page. |

b. Specific cases

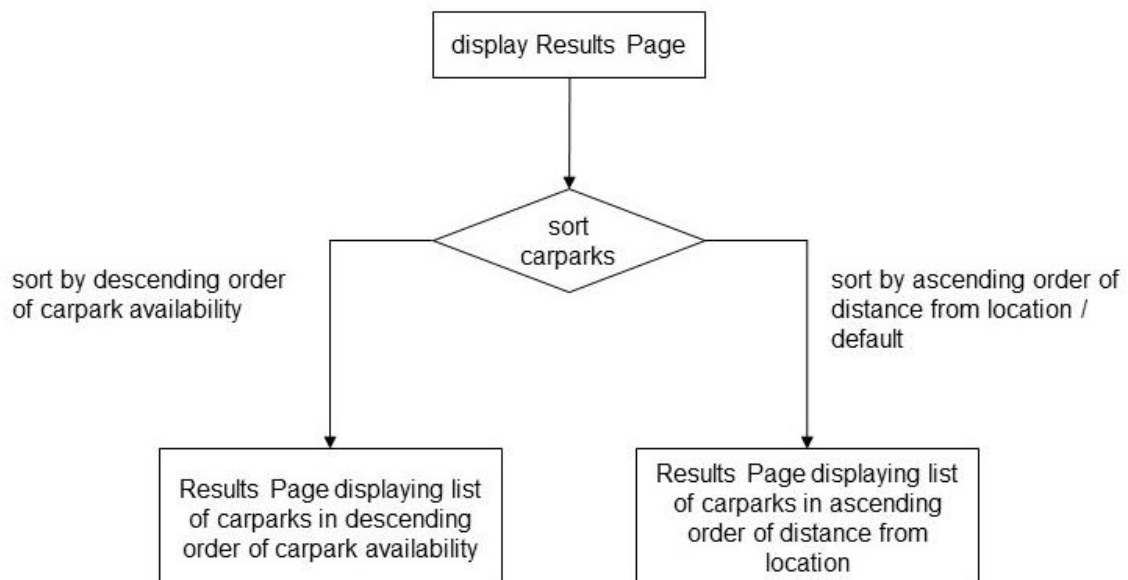
| Search string | Expected Result | Actual Result |
|---|-----------------------------------|-----------------------------------|
| BLK 109-127 Hougang Avenue 1 (from search results) | Return to the search result page. | Return to the search result page. |
| BLK 962A Jurong West Street 91 (from favourites page) | Return to the favourites page. | Return to the favourites page. |

White Box Testing (control flow testing)

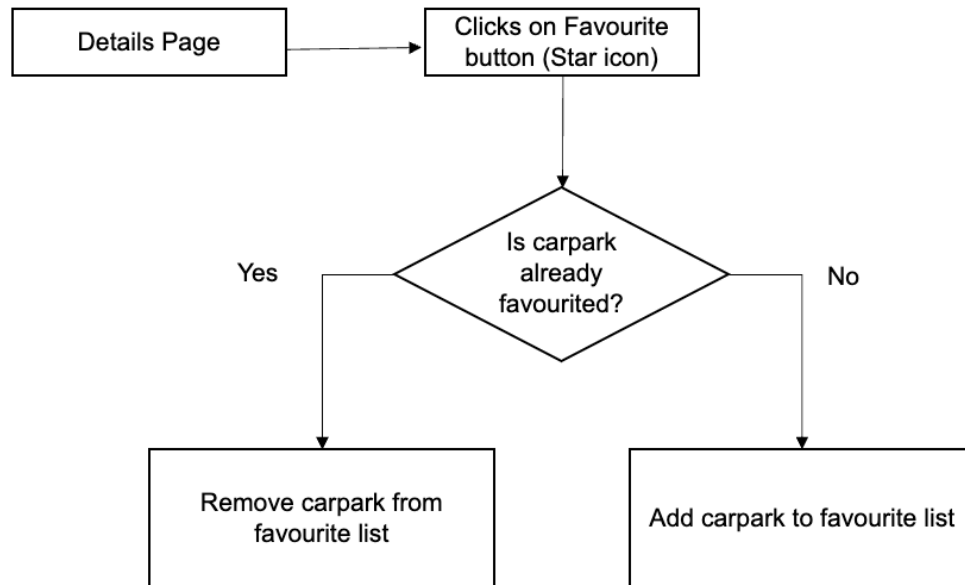
1. Search for carpark



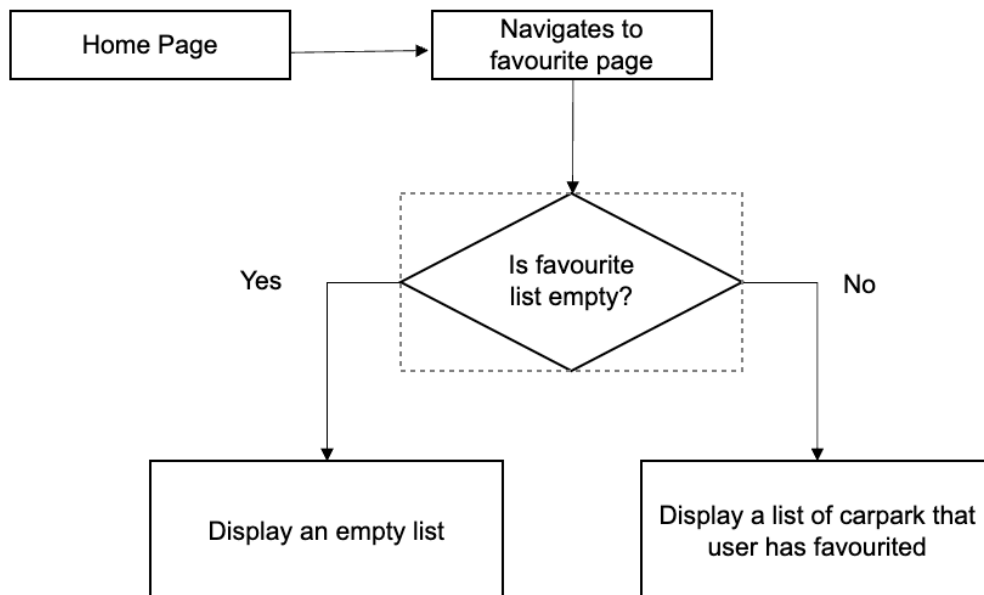
2. Sort Results



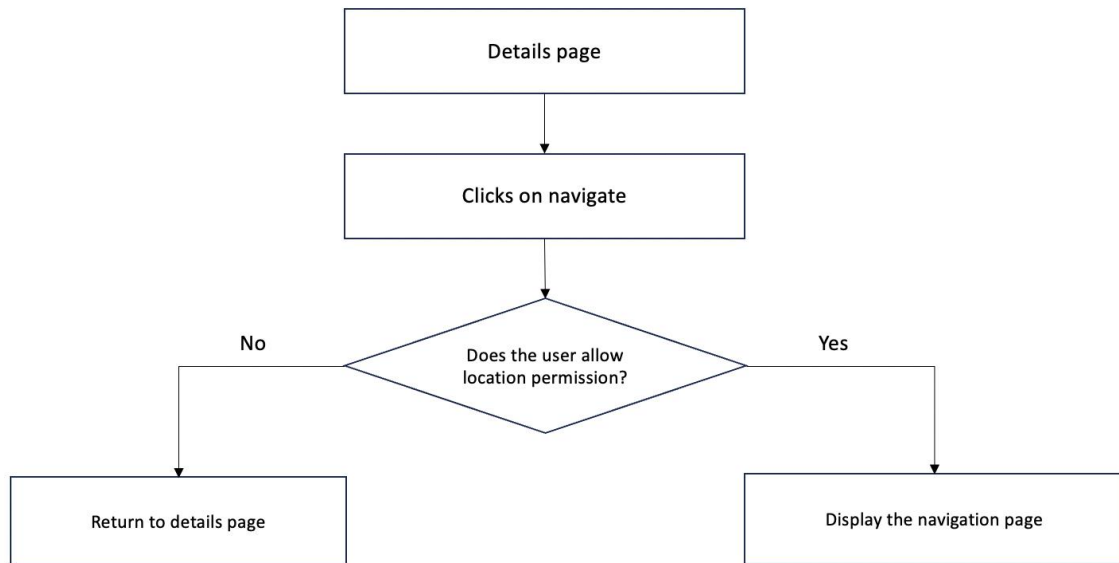
3. Favourite Carpark



4. View Favourite Carpark



5. Select Carpark to Visit
 - a. Navigate to Carpark



- b. Unselect Carpark to Visit

