Black Box Testing

Create Account

Test ID	Scenario	Name	Email	Password	Expected Result	Actual Result
1	User key in valid name, email, password	testuser1	testuser3@email.com	12345678aA!	System will display a "Account created successfully" message and redirects to login page	System will display a "Account created successfully" message and redirects to login page
2	User keys in invalid email format	testuser2	testuser2@	12345678aA!	System will display a "Email is incomplete" message	System will display a "Email is incomplete" message
3	User keys in password of length less than 8	testuser3	testuser3@email.com	1234aA!	System will display a weak password warning	System will display a weak password warning
4	User keys in password with no lowercase letters	testuser4	testuser4@email.com	12345678A!	System will display a weak password warning	System will display a weak password warning .
5	User keys in password with no uppercase letters	testuser5	testuser5@email.com	12345678a!	System will display a weak password warning	System will display a weak password warning .
6	User keys in password	testuser6	testuser6@email.com	12345678aA	System will display a weak password	System will display a weak password

	with no special characters				warning	warning
7	User keys in an email that already exists in the system	testuser1	testuser1@ email.com	12345678 aA!	System will display "user already exist" message	System will display "user already exist" message
8	User leave the name field empty and click on create account button		testuser7@ email.com	12345678 aA!	System will display "Fill in all fields" message	System display "Fill in all fields" message
9	User leave the email field empty and click on create account button	testUser7		12345678 aA!	System will display "Fill in all fields" message	System display "Fill in all fields" message
10	User leave the password field empty and click on create account button	testUser7	testuser7@ email.com		System will display "Fill in all fields" message	System display "Fill in all fields" message

Login

Test ID	Scenario	Email	Password	Expected Result	Actual Result
1	User keys in valid email and password	testuser1@email.com	12345678aA!	Redirect to home page	Redirect to home page
2	User key in wrong password	testuser1@email.com	12345678	"Invalid credentials" message	"Invalid credentials" message
3	User key in invalid email	invalid@email.com	12345678aA!	"Invalid credentials" message	"Invalid credentials" message
4	User leave the email field empty and click on login button		12345678aA!	"Invalid credentials" message	"Invalid credentials" message
5	User leave the password field empty and click on login button	testuser1@email.com		"Invalid credentials" message	"Invalid credentials" message

Change Password

Test ID	Scenario	Old Password	New Password	Confirm Password	Expected Result	Actual Result
1	User keys in valid old password, new password and confirmation password	12345678aA!	23456789aA!	23456789aA!	Password changed successfully	Password changed successfully
2	User key in wrong old password	12345678	23456789aA!	23456789aA!	Wrong password message	Wrong password message
3	User key in invalid new password	12345678aA!	23456789aA	23456789aA	"New password is weak" message	"New password is weak" message
4	Confirm password and new password not the same	12345678aA!	23456789aA!	23456789a	New password and confirm password does not match message	New password and confirm password does not match message
5	New password field empty	12345678aA!		23456789aA!	Please fill in all the required fields message	Please fill in all the required fields message
6	Confirm password field empty	12345678aA!	23456789aA!		Please fill in all the required fields message	Please fill in all the required fields message

White Box Testing

1. Create Account
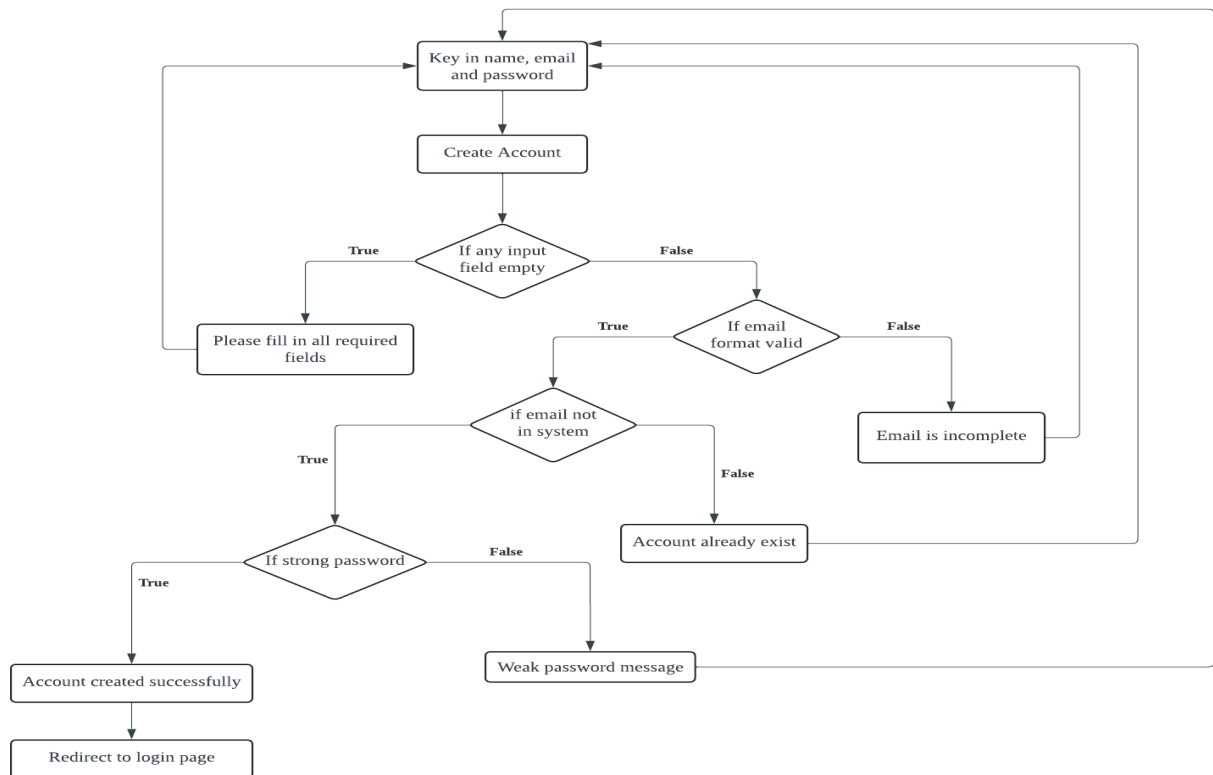
2. Login

3. Change Password

```
                                    Key in old password, new
                                    password and confirm
                                    password
                                            │
                                            ▼
                                    Create Account
                                            │
                                            ▼
              True                   If any input         False
         ┌───────────────────────── field empty ──────────────────┐
         ▼                                                          ▼
  Please fill in all required                          True    if old        False
  fields                                          ┌─────────── password correct ──────┐
                                                  ▼                                    ▼
                                          if strong new                        Current password
                                          password                             incorrect message
                                    True  │        │  False
                              ┌───────────┘        └──────────┐
                              ▼                                ▼
                 True   if new password ==   False    Weak password message
              ┌─────── confirm password ───────┐
              ▼                                 ▼
  password changed                   New password and confirm
  successfully                       password does not match
```
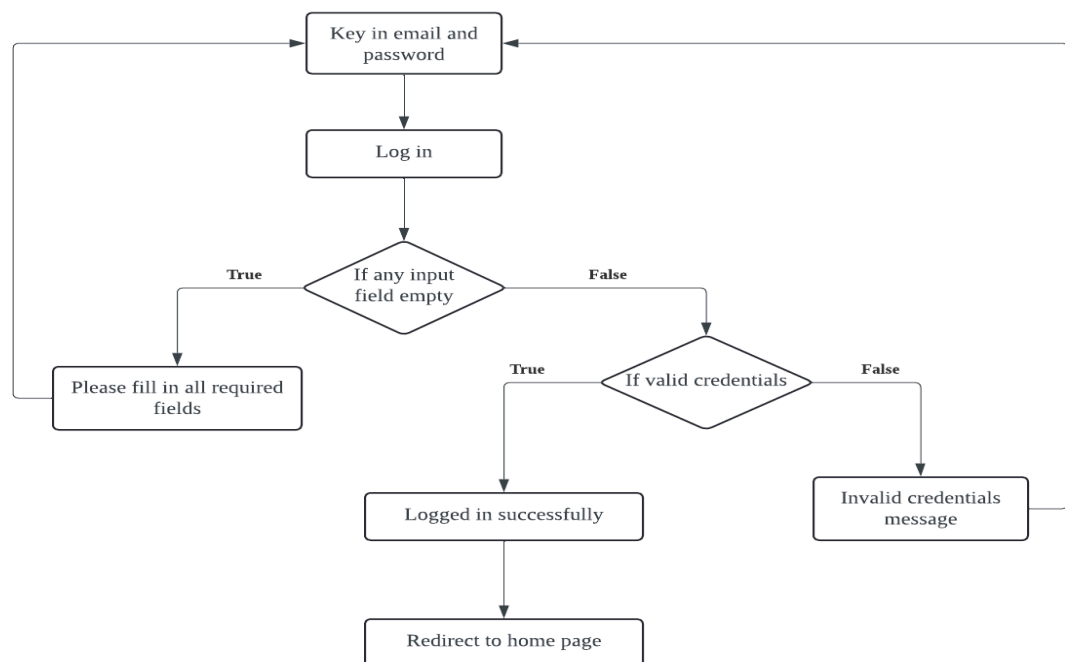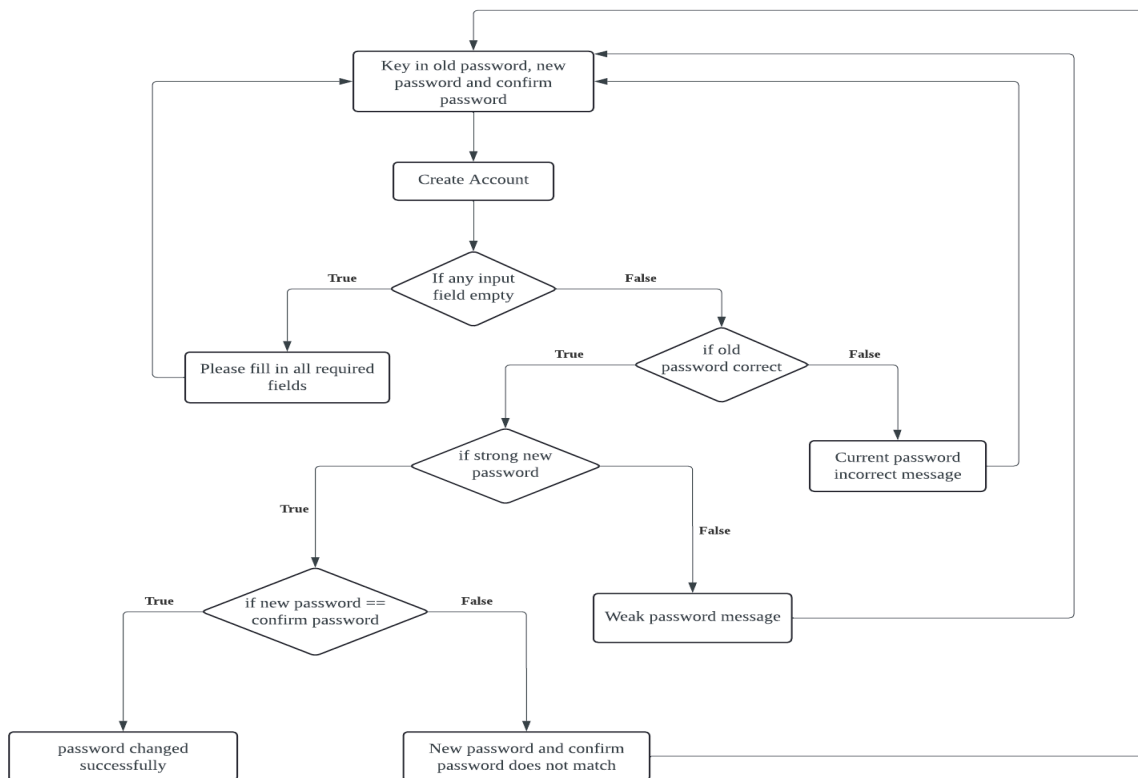
4. Search Car Park

```
                         Enter  carpark name
                                  │
                                  ▼
                               Search
                                  │
                                  ▼
               True          If search          False
         ┌─────────────────  field empty ───────────────┐
         ▼                                               ▼
  Please enter a valid name                        searchCarpark
                                                         │
                                                         ▼
                         True          Carparks           False
                   ┌──────────────  found within 2km ───────────┐
                   ▼                                             ▼
          Show all relevant car                         No carparks found
          park on the map
                   │
                   ▼
  False      If view Carpark     True
  ┌────────  ─────────────────  ────────┐
  ▼                                      ▼
Remain in home page          fetchCarparkDetails (id) ──▶ Display carpark
                                                          details
```