

BLACKBOX TESTING

Register Functionality

Test Case ID	Test Case Description	Test Objective	Preconditions	Inputs	Expected Outcome	Test Steps	Actual Outcome	Pass/Fail	Notes
BB1	Verify successful sign up with valid email and password	Ensure sign up works with valid credentials	User is in sign up page	Full name: John Tan Number: 91111111 Email: test@gmail.com Password: Password123!	User has sign up successfully	1. Go to the website 2. Click on sign up option 3. Enter details 4. Successful sign up	User has sign up successfully	Pass	
BB2	Verify error message when email is invalid	Ensure error is shown when email is invalid	User is in sign up page	Full name: John Tan Number: 91111111 Email: test Password: Password123!	'This email address is invalid' Is displayed	1. Go to the website 2. Click on sign up option 3. Enter details 4. Error message shown	'This email address is invalid' Is displayed	Pass	
BB3	Verify error message when email is already registered	Ensure error is shown when email is invalid	User is in sign up page	Full name: John Tan Number: 91111111 Email: test@gmail.com Password: Password123!	'This email address is already in use.' Is displayed	1. Go to the website 2. Click on sign up option 3. Enter details 4. Error message shown	'This email address is already in use.' Is displayed	Pass	
BB4	Verify error message when phone number is invalid	Ensure error is shown when email is invalid	User is in sign up page	Full name: John Tan Number: 12345678	'Invalid phone number.' Is displayed	1. Go to the website 2. Click on sign up	'Invalid phone number.' Is displayed	Pass	

				Email: test1@gmail.com Password: Password123!		option 3. Enter details 4. Error message shown			
BB5	Verify error message when password is invalid	Ensure error message is shown	User is in sign up page	Full name: John Tan Number: 12345678 Email: test2@gmail.com Password: 1234	'Password is not strong enough. Add additional characters including special characters, capital letters and numbers.' is displayed	1. Go to the website 2. Click on sign up option 3. Enter details 4. Error message shown	'Password is not strong enough. Add additional characters including special characters, capital letters and numbers..' is displayed	Pass	

Login Functionality

Test Case ID	Test Case Description	Test Objective	Preconditions	Inputs	Expected Outcome	Test Steps	Actual Outcome	Pass/Fail	Notes
BB1	Verify successful login with valid email and password	Ensure login works with valid credentials	User is in log in page and has registered account	Email: test@gmail.com Password: Password123!	User logs in successfully	1. Go to website 2. Enter valid email and password 3. Click on sign in button	User logs in successfully	Pass	
BB2	Verify error message when email is invalid	Ensure error is shown when email is invalid	User is in log in page and has registered account	Email: test Password: Password123!	'Invalid Email, no user found with the provided email.' Is displayed	1. Go to website 2. Enter details 3. Click on sign in button 4. Error message shown	'Invalid Email, no user found with the provided email.' Is displayed	Pass	
BB3	Verify error message when email is unregistered	Ensure error is shown when email is unregistered	User is in log in page and has registered account	Email: test2@gmail.com Password: Password123!	'Invalid login credentials. Please try again.' Is displayed	1. Go to website 2. Enter details 3. Click on sign in button 4. Error message shown	'Invalid login credentials. Please try again..' Is displayed	Pass	
BB4	Verify error message when password is invalid	Ensure error is shown when password is invalid	User is in log in page and has registered account	Email: test@gmail.com Password: 1234	Invalid login credentials. Please try again..' Is displayed	1. Go to website 2. Enter details 3. Click on sign in button	Invalid login credentials. Please try again..' Is displayed	Pass	

						4. Error message shown			
BB5	Verify error message when username field is empty	Ensure error is shown when username is empty	User is in log in page and has registered account	Email: Password: 1234	'Invalid Email, no user found with the provided email.' Is displayed	1. Go to website 2. Enter details 3. Click on sign in button 4. Error message shown	'Invalid Email, no user found with the provided email.' Is displayed	Pass	
BB6	Verify error message when password field is empty	Ensure error is shown when password is empty	User is in log in page and has registered account	Email: test@gmail.com Password:	'Please enter your password.' Is displayed	1. Go to website 2. Enter details 3. Click on sign in button 4. Error message shown	'Please enter your password.' Is displayed	Pass	

Password Reset Functionality

Test Case ID	Test Case Description	Test Objective	Preconditions	Inputs	Expected Outcome	Test Steps	Actual Outcome	Pass/Fail	Notes
BB1	Verify successful password reset with valid email	Ensure password reset functionality works correctly for valid email	User is in password reset page and has registered account	Email: test@gmail.com	'Reset password link sent to your email.' is displayed	1. Go to website 2. Click on forgotten password 3. Enter valid email 4. Reset link sent	'Reset password link sent to your email.' is displayed	Pass	
BB2	Verify error message with unregistered email	Ensure password reset link is still sent when an unregistered email is entered	User is in password reset page and does not have a registered account	Email: test2@gmail.com	'Reset password link sent to your email.' is displayed	1. Go to website 2. Click on forgotten password 3. Enter unregistered email 4. Reset link sent	'Reset password link sent to your email.' is displayed	Pass	
BB3	Verify error message when email field is empty	Ensure error is shown when email is empty	User is in password reset page	Email:	'Invalid email address.' is displayed	1. Go to website 2. Click on forgotten password 3. Enter empty field in email 4. Error message shown	'Invalid email address.' is displayed	Pass	
BB4	Verify error message with invalid email	Ensure error is shown when email is invalid	User is in password reset page	Email: test	'Invalid email address.' is displayed	1. Go to website 2. Click on forgotten password	'Invalid email address.' is displayed	Pass	

						3. Enter invalid email 4. Error message shown			
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Searching Functionality

Test Case ID	Test Case Description	Test Objective	Preconditions	Inputs	Expected Outcome	Test Steps	Actual Outcome	Pass/Fail	Notes
BB1	Verify successful search with valid input	Ensure searching works with valid inputs	User is logged in and at the map	Destination: Choa Chu Kang	Carparks around the area are being displayed on the map	1. Enter input into the search bar in the homepage map 2. Click Find Carpark button 3. Carpark around area shown.	Carparks around the area are being displayed on the map	Pass	
BB2	Verify successful search with current location	Ensure searching works with current location	User has given permission for site to access location, user is at map page	NIL	Carparks around the area are being displayed on the map	1. Click on the location icon button in the homepage map 2. Carpark around area shown	Carparks around the area are being displayed on the map	Pass	
BB3	Verify successful loading of carpark information	Ensure carpark information is displayed correctly	User is logged in and at the map	Destination: Choa Chu Kang	Carpark information displayed correctly	1. Enter input into the search bar in the homepage map 2. Click Find Carpark button 3. Click on a carpark icon on the map 4. Carpark information displayed	Carpark information displayed correctly	Pass	
BB4	Verify successful loading of directions to carpark	Ensure directions to carpark are loaded correctly	User is logged in and at the map	Destination: Choa Chu Kang	Directions are loaded correctly	1. Enter input into the search bar in the homepage map	Directions from current location to carpark loaded	Pass	

						<div>2. Click Find Carpark button</div> <div>3. Click on a carpark icon on the map</div> <div>4. Click on directions icon</div> <div>5. 'Are you sure you want to navigate to this car park?' displayed, click ok</div> <div>6. Directions from current location to carpark loaded</div>			
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Favourite Carparks Functionality

Test Case ID	Test Case Description	Test Objective	Preconditions	Inputs	Expected Outcome	Test Steps	Actual Outcome	Pass/Fail	Notes
BB1	Verify successful favouriting of carpark	Ensure carpark is favourited correctly	User is logged in and at the map	Destination: Choa Chu Kang	Carpark added to favourited carpark list	1. Click on carpark icon. 2. Click on favourite carpark icon (heart) 3. 'Are you sure you want to add this car park?' displayed. Click Ok 4. Success message shown 5. Favourited carpark icon changes	'Carpark added successfully!' displayed, favourited carpark icon changes	Pass	
BB2	Verify successful updating of favourite carpark in favourites page	Ensure favourited carpark is added into the favourite page correctly	User is logged in and has at least 1 favourited carpark	NIL	Favourite carpark page displays favourited carpark	1. Navigate to favourite carpark page 2. Favourite carpark displayed	Favourite carpark page displays favourited carpark	Pass	
BB3	Verify successful deletion of favourite carpark	Ensure favourite carpark is deleted successfully	User is logged in and has at least 1 favourited carpark	NIL	Favourite carpark is removed from favourite carpark list	1. Navigate to favourite carpark page 2. Click on delete icon (bin) on favourite carpark 3. 'Are you sure you want to remove this	Favourite carpark is removed from favourite carpark list	Pass	

						car park?' displayed, click ok 4. Success message shown 5. Carpark removed from favourites			
BB4	Verify successful renaming of favourite carpark	Ensure favourite carparks can be renamed successfully	User is logged in and has at least 1 favourited carpark	Name: Home CP	Favourite carpark is renamed	1. Navigate to favourite carpark page 2. Click on edit icon (pen) 3. Enter new name for carpark 4. Success message shown 5. Carpark is renamed	Favourite carpark is renamed	Pass	