



TEST CASES AND REQUIREMENTS TEST COVERAGE REPORT

Version 1.3
5/4/2021

Team Xeon

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REVISION HISTORY

Version	Date	Author	Description of Changes	Approved by
1.0	29/3/2021	Boon Shuan	Initial Draft	Kenny Voo Tze Rung
1.1	29/3/2021	Wilson	Added TC-3	Kenny Voo Tze Rung
1.2	1/4/2021	Boon Shuan	Added TC-4 and TC-5	Kenny Voo Tze Rung
1.3	5/4/2021	Kenny	Edited all the test cases	Kenny Voo Tze Rung

TC - 1

Test Case ID: TC - 1	Test Designed by: Boon Shuan
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/21
Test Title: Login with valid account	Test Executed by: Boon Shuan
Description: Enable administrators to log into the web application.	Test Execution date: 02/04/21
	NFR Tested: N/A
Pre-conditions: The administrator must have an existing account; administrator is logged out.	
Dependencies: N/A	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Open the base address on the browser	N/A	Administrator should see the login page.	Administrator is redirected to the login page.	Pass	
2	Provide valid email	Email: admin@admin.com	Administrator should see his/her input in the email field.	The username field displays E.g. "admin@admin.com".	Pass	

3	Provide valid password	Password: ASE_A+!	Administrator should see his/her hidden input in the password field.	The password field displays “●●●●●●●”.	Pass	
4	Click on login button	N/A	Administrator should be logged in and redirected to the home page.	Administrator logs in and is redirected to the home page.	Pass	

Post-conditions:

Administrator is validated with the database and logs into their account.

TC - 2

Test Case ID: TC - 2	Test Designed by: Irsyad
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/21
Test Title: Register new account	Test Executed by: Boon Shuan
Description: New administrator must be able to register successfully in the system.	Test Execution date: 02/04/21
	NFR Tested: N/A
Pre-conditions: Administrator must register with an unregistered email account.	
Dependencies: N/A	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Open the base address on the browser	N/A	Administrator should see the login page.	Administrator is directed to the login page.	Pass	
2	Provide valid email	Email: boonshuan@admin.com	Administrator should see his/her input in the username field.	The username field displays “boonshuan@admin.com” .	Pass	

3	Provide valid password	Password: Scsenumber1!	Administrator should see his/her hidden input in the password field.	The password field displays “●●●●●●●●●●”.	Pass	
5	Click on login button	N/A	Administrator should be logged in and redirected to the home page.	Administrator logs in and is redirected to the home page.	Pass	

Post-conditions:

Administrator is validated with the database and logs into his/her account. This ties to the Test Case 1 – Login account.

TC - 3

Test Case ID: TC - 3	Test Designed by: Hou Jing
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/20
Test Title: Add new Seat	Test Executed by: Boon Shuan
Description: Enable administrators to add a new seat into the system.	Test Execution date: 02/04/21
	NFR Tested: N/A
Pre-conditions: The administrator must have an existing account; administrator is logged in.	
Dependencies: TC - 1	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Go to Add Seats Page	N/A	Administrator should be able to draw a bounding box in the camera pane, and key in necessary info	Bounding box can be drawn on the camera screen, keyed-in info reflected on the page	Pass	
2	Click on "Add Seat"	N/A	Bounding box will be saved in the database. Camera will be detecting	Camera is able to detect objects within the bounding boxes.	Pass	

			objects within the bounding boxes			
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TC - 4

Test Case ID: TC - 4	Test Designed by: Kenny
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/21
Test Title: Seat Empty	Test Executed by: Boon Shuan
Description: Seat must be deemed 'empty' when no objects or persons are detected by the camera.	Test Execution date: 02/04/2
	NFR Tested: N/A
Pre-conditions: The admin must have an existing account; the admin is logged in.	
Dependencies: TC - 1, TC - 2	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Click on a camera	N/A	Administrator should be able to see the seat statuses; represented by the bounding boxes.	Seat statuses are displayed at the bottom left of the bounding box	Pass	

2	Ensure no objects (laptops/water bottle) or humans are present within the bounding box of the camera	N/A	Administrators should be able to see that the seat status is displayed as Empty.	Seat status is deemed as Empty	Pass	
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TC - 5

Test Case ID: TC - 5	Test Designed by: Boon Shuan
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/21
Test Title: Seat Occupied	Test Executed by: Boon Shuan
Description: Seat must be deemed 'occupied' when a person is detected by the camera.	Test Execution date: 01/04/21
	NFR Tested: N/A
Pre-conditions: The administrator must have an existing account; the administrator is logged in.	
Dependencies: TC - 1, TC - 2	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Click on a camera	N/A	Administrator should be able to see the seat statuses; represented by the bounding boxes.	Seat statuses are displayed at the bottom left of the bounding box	Pass	

2	Have a person sit at the seat within a bounding box	N/A	Administrators should be able to see that the camera detects a person within the bounding box, and the seat is deemed as occupied	Seat status is deemed as occupied	Pass	
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TC - 6

Test Case ID: TC - 6	Test Designed by: Boon Shuan
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/21
Test Title: Seat Hogged	Test Executed by: Boon Shuan
Description: Seat must be deemed as 'hogged' when objects, but no persons, are detected by the camera	Test Execution date: 02/04/21
	NFR Tested: N/A
Pre-conditions: The administrator must have an existing account; the administrator is logged in.	
Dependencies: TC - 4	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Click on a camera	N/A	Administrator should be able to see the seat statuses; represented by the bounding boxes.	Seat statuses are displayed at the bottom left of the bounding box	Pass	

2	Place an object within the bounding box, but without any person	N/A	Administrators should be able to see that the camera detects an object within the bounding box, and the seat is deemed as 'hogged'.	Seat status is deemed as 'hogged'	Pass	
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TC - 7

Test Case ID: TC - 7	Test Designed by: Irsyad
Test Priority (Low/Medium/High): Medium	Test Designed date: 08/11/20
Test Title: Book a seat	Test Executed by: Boon Shuan
Description: Allow users to book an empty seat from the seat display.	Test Execution date: 08/11/20
	NFR Tested: N/A
Pre-conditions: The user must have an existing account; the user is logged in.	
Dependencies: TC - 1, TC - 2, TC - 4	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Click on an 'occupied' or 'hogged' seat	N/A	The user should not be able to select the seat, as these seats are not 'empty' and should be greyed out.	Seat is unable to be selected	Pass	

2	Click on an 'empty' seat	N/A	The user is able to select the seat.	The seat is highlighted, indicating that it is able to be selected.	Pass	
3	Click on 'Book'	N/A	The user is able to confirm and book the selected seat.	The seat is booked and is reserved for the user for 15 mins.	Pass	

TC - 8

Test Case ID: TC - 8	Test Designed by: Zhou Zeyu
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/21
Test Title: Logout with valid account	Test Executed by: Boon Shuan
Description: Enable administrators to log out of the web application.	Test Execution date: 02/04/21
	NFR Tested: N/A
Pre-conditions: The user must have an existing account; user is logged in.	
Dependencies: N/A	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Click on logout button	N/A	Administrator should be logged out and redirected to the login page.	Administrator log out and are redirected to the login page.	Pass	

Post-conditions:

Administrator is logged out of their account.

TC - 9

Test Case ID: TC - 9	Test Designed by: Hou Jing
Test Priority (Low/Medium/High): High	Test Designed date: 01/04/20
Test Title: Modify/Delete Seat	Test Executed by: Boon Shuan
Description: Enable administrators to modify a seat in the system.	Test Execution date: 02/04/21
	NFR Tested: N/A
Pre-conditions: The administrator must have an existing account; administrator is logged in.	
Dependencies: TC - 1	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Go to Modify/Delete Seats Page	N/A	Administrator should be able to click on any seats and able to modify any parameters and status	Selected seat is marked in bold and current parameters are displayed on the page for editing	Pass	
2	Click on "Modify Seat"	N/A	Updated parameters will be updated to the database	Selected seat is successfully modified and reflected in the database	Pass	

2	Click on “Delete Seat”	N/A	Selected seat is removed from the database	Selected seat is removed from the database	Pass	
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