

Table 8.2.1. Test Suite TS-001 (Functional Testing): StartScreenTest

Test Case ID	Testing Type	Test Case Description	Tested
TC-001	Object Interface Testing	Verify that the "Start Session" button is displayed on StartScreen and that clicking it invokes the onStart callback.	Yes

Table 8.2.2. Test Suite TS-002 (Functional Testing): SessionScreenTest

Test Case ID	Testing Type	Test Case Description	Tested
TC-004	Object Interface Testing	Verify that the "End Session" button is displayed on SessionScreen and that clicking it invokes the onEnd callback.	Yes
TC-006	Object Interface Testing	Verify that tapping the "Notify" chip opens the notification dialog and that the dialog text correctly reflects the number of times the chip has been tapped.	Yes
TC-011	Object Interface Testing	Verify that tapping the "Sound" chip opens the sound dialog and that selecting "Turn off sound" triggers the stop/reset behavior for the sound and closes the dialog.	Yes
TC-012	Object Interface Testing	Verify that the "Emergency" card is displayed on SessionScreen and is clickable, confirming that the emergency action is wired to a tap handler.	Yes
TC-013	Object Interface Testing	Verify that makeEmergencyCall creates an ACTION_CALL intent with the correct "tel:" URI for the emergency number and passes it to context.startActivity().	Yes

Table 8.2.3. Test Case TC-001

Project Name:	Distracted/Drowsy Driver Detection on Snapdragon Mobile Platform	
Test Suite	TS-001 (Functional Testing): StartScreenTest	
Test Case ID	TC-001 (Object Interface Testing)	
What To Test	Verify that the "Start Session" button is displayed on StartScreen and that clicking it invokes the onStart callback.	
Test Data Input	taps the "Start Session" button on StartScreen.	
Expected Result	onStart callback is invoked and a monitoring session begins.	
Traceability	Relevant User Req.(s)	UF-B
	Relevant System Req.(s)	SF-B-01, SF-B-02
	Relevant Use Case(s)	UC-001

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Table 8.2.4. Test Case TC-004

Project Name:	Distracted/Drowsy Driver Detection on Snapdragon Mobile Platform	
Test Suite	TS-002 (Functional Testing): SessionScreenTest	
Test Case ID	TC-004 (Object Interface Testing)	
What To Test	Verify that the "End Session" button is displayed on SessionScreen and that clicking it invokes the onEnd callback.	
Test Data Input	Taps the "End Session" button on SessionScreen.	
Expected Result	The onEnd callback is invoked and the current monitoring session ends	
Traceability	Relevant User Req.(s)	UF-B
	Relevant System Req.(s)	SF-B-02
	Relevant Use Case(s)	UC-001

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Table 8.2.5. Test Case TC-006

Project Name:	Distracted/Drowsy Driver Detection on Snapdragon Mobile Platform	
Test Suite	TS-002 (Functional Testing): SessionScreenTest	
Test Case ID	TC-006 (Object Interface Testing)	
What To Test	Verify that tapping the "Notify" chip opens the notification dialog and that the dialog text correctly reflects the number of times the chip has been tapped.	
Test Data Input	User taps the "Notify" chip twice in the same session	
Expected Result	A dialog appears showing the notification text and correctly displays "Notify tapped 2 times	
Traceability	Relevant User Req.(s)	UF-D, UF-F, UF-G, UF-I, UF-J
	Relevant System Req.(s)	SF-A-01, SF-B-01, SF-D-01
	Relevant Use Case(s)	UC-003

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Table 8.2.6. Test Case TC-011

Project Name:	Distracted/Drowsy Driver Detection on Snapdragon Mobile Platform	
Test Suite	TS-002 (Functional Testing): SessionScreenTest	
Test Case ID	TC-011 (Object Interface Testing)	
What To Test	Verify that tapping the "Sound" chip opens the sound dialog and that selecting "Turn off sound" triggers the stop/reset behavior for the sound and closes the dialog.	
Test Data Input	User taps the "Sound" chip and then selects "Turn off sound" in the dialog	
Expected Result	The sound stops and the sound dialog is closed	
Traceability	Relevant User Req.(s)	UF-D
	Relevant System Req.(s)	SF-D-01, SF-D-02, SF-D-03
	Relevant Use Case(s)	UC-004

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Table 8.2.7. Test Case TC-012

Project Name:	Distracted/Drowsy Driver Detection on Snapdragon Mobile Platform	
Test Suite	TS-002 (Functional Testing): SessionScreenTest	
Test Case ID	TC-012 (Object Interface Testing)	
What To Test	Verify that the "Emergency" card is displayed on SessionScreen and is clickable, confirming that the emergency action is wired to a tap handler.	
Test Data Input	User taps the "Emergency" card on SessionScreen	
Expected Result	The emergency tap handler runs (emergency action is triggered) without crashing	
Traceability	Relevant User Req.(s)	UF-B, UF-C
	Relevant System Req.(s)	SF-C-02, SF-F-02
	Relevant Use Case(s)	UC-002

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Table 8.2.8. Test Case TC-013

Project Name:	Distracted/Drowsy Driver Detection on Snapdragon Mobile Platform	
Test Suite	TS-002 (Functional Testing): SessionScreenTest	
Test Case ID	TC-013 (Object Interface Testing)	
What To Test	Verify that makeEmergencyCall creates an ACTION_CALL intent with the correct "tel:" URI for the emergency number and passes it to context.startActivity().	
Test Data Input	Emergency phone number 9513034883	
Expected Result	The system starts a phone call to 9513034883 using an ACTION_CALL intent	
Traceability	Relevant User Req.(s)	UF-B
	Relevant System Req.(s)	SF-B-01, SF-B-02
	Relevant Use Case(s)	UC-002

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