Appendix 3: Test Cases

Test Case No: TC1		Related Requirement: FR1
Test Description:	Verify user can create an account on the system	
Prerequisites:	App is not running	
	User has not got an account in the system with email used	
Test Procedure:	1. Open application	
	2. Select	ct the 'Sign up' button, User Registration screen is
	displa	ayed
	3. Input	t test data (email and password)
	4. Select	ct the 'Sign up' button, the User Login screen is
	displa	ayed
	5. Enter	r test data to login to the system. 'Start a walk' screen
	is disp	played once signed in.
Test Data:	1. User d	details:
	a.	. First name: Sarah
	b.	o. Dogs name: Max
	C.	. Email: <u>sarahbrown@gmail.com</u>
	d.	. Password: Testing1234
	2. User d	details:
	a.	. First name: *Leave blank*
	b.	Dogs name: Max
	C.	Email: <u>sarahbrown@gmail.com</u>
	d.	. Password: Testing1234
Expected Result:	1. User v	will enter details, sign up, an account will be made on
	the sy	ystem. The user will use their credentials to log in and
	will be	be displayed with the Start a walk screen.
	2. When	n user tries to sign up, a toast will be displayed asking
	the us	iser to enter all details before signing up. An account
	will no	not be made until all fields are filled.
Actual Result:	1. As exp	(pected.
	2. As exp	(pected.
Comments:	NA	
Test Status:	PASS	

Test Case No: TC2	Related Requirement: FR1	
Test Description:	Verify user can log into the system	
Prerequisites:	App is not running	
	User has an account on the system	
Test Procedure:	1. Open application	
	2. Select the 'Log in' button, User Log In screen is displayed	
	3. Input test data	
	4. Select the 'Log In' button, 'Start a walk' screen is displayed	
	once signed in.	
Test Data:	1. User details:	
	a. Email: <u>sarahbrown@gmail.com</u>	
	 b. Password: Testing1234 	
	2. User details:	
	a. Email: <u>sarahbrown@gmail.com</u>	
	b. Password: Apple1234	
Expected Result:	1. User will enter details, log in and will be displayed with the	
	Start a walk screen.	
	2. User will enter details, however as they are incorrect will	
	not sign in. A toast will be displayed asking the user to	
	enter the correct details.	
Actual Result:	1. As expected.	
	2. As expected.	
Comments:	NA	
Test Status:	PASS	

Test Case No: TC3	Related Requirement: FR1	
Test Description:	Verify user can reset password	
Prerequisites:	App is not running	
	User has an account on the system	
Test Procedure:	1. Open application	
	2. Select the 'Log in' button, User Log In screen is displayed	
	3. Select the 'Forgot Password?' text, 'Forgot password'	
	screen is displayed	
	Input test data and select 'Reset Password' button	
	5. Follow link sent to input data's email to change password	
Test Data:	1. User details:	
	a. Email: <u>sarahbrown@gmail.com</u>	
Expected Result:	1. User will enter email, select reset password, a toast will	
	display asking the user to check their emails. An email will	
	appear in the user's inbox. The user will follow the link and	
	reset their password.	
Actual Result:	1. As expected.	
Comments:	NA	
Test Status:	PASS	

Test Case No: TC4	Related Requirement: FR2	
Test Description:	Verify user can track and store a walk in real time	
Prerequisites:	App is running	
	User is logged into the system	
	User is on the Start Walk screen	
Test Procedure:	1. User selects the start walk button. A toast is displayed to	
	notify the user their location is being tracked.	
	2. User is presented with the 'Start Mood' screen. User	
	selects the 'Exit' button.	
	3. User walks for a short period of time and their location is	
	reflected on the map. The path they have taken is shown	
	on the map.	
	4. User selects the stop walk button. User is presented with	
	the 'End Mood' screen. User selects the 'Exit' button.	
	5. A toast is displayed to notify the user their location is no	
	longer being tracked.	
	6. This walk is saved	
	7. A summary of the users walk is displayed which presents	
	the user relevant information of that walk	
Test Data:	NA	
Expected Result:	1. Uses location will be tracked in real time. The users	
	location will update every 5 seconds and the path they take	
	is shown live. Once finished a summary of that walk is	
	displayed. The walk is stored in Firebase.	
Actual Result:	1. As expected.	
Comments:	NA	
Test Status:	PASS	

Test Case No: TC5	Related Requirement: FR3	
Test Description:	Verify user can optionally add emotion tags	
Prerequisites:	App is running	
	User is logged into the system & user is on the Start Walk screen	
Test Procedure:	1. User selects the start walk button. A toast is displayed to	
	notify the user their location is being tracked.	
	2. User is presented with the 'Start Mood' screen. User	
	inputs test data (Test.1) and selects 'Save and back'.	
	3. User walks for a short period of time and their location is	
	reflected on the map.	
	4. User selects the '+' button on the map. User selects 'Add a	
	mood'	
	5. User is presented with the 'Add a current mood' screen.	
	User inputs test data (Test.2) and selects 'Save and back'.	
	6. User selects the stop walk button. User is presented with	
	the 'End Mood' screen. User inputs test data (Test.3) and	
	selects 'Save and back'.	
	7. A toast is displayed to notify the user their location is no	
	longer being tracked.	
	8. A summary of the users walk is displayed	
Test Data:	1. User moods:	
	1.1. Sad emoji	
	1.2. Neutral emoji	
	1.3. Happy emoji	
	2. User moods:	
	2.1. No mood selected	
	2.2. No mood selected	
	2.3. No mood selected	
Expected Result:	1. Once start mood 'sad' is selected and saved, this is	
	reflected on the main walk screen by presenting the	
	corresponding emoji on the screen. Once current mood is	
	selected 'neutral' a neutral emoji icon is set on the map	
	where the user was at the time of selecting this. After user	
	sets end mood and saves the walk, a summary of the users	
	which presents the user relevant information of that walk	
	including recorded moods.	
	2. The user is optionally selecting not to record a mood at	
	each of these stages, a 'no mood' icon will appear on the	
	main walk screen once the user saves start mood without	
	selecting a mood. No icon will be displayed once the user	
	selects no current mood and when the user is viewing the	
	saved walk, all moods will display with the 'no mood' icon.	
Actual Result:	1. As expected.	
	2. As expected.	
Comments:	User can only add one emotion at these three stages. User can	
	only add a current mood once during each walk.	
Test Status:	PASS	

Test Case No: TC6	Relate	d Requirement: FR4	
Test Description:	Verify user can optionally add activity tags		
Prerequisites:	App is running		
	User is logged into the system		
	User has started a walk and	d is on the walk screen	
Test Procedure:	 User selects the '+' button on the map. User selects 'Add an activity' User is presented with the 'Add an activity' screen. User inputs test data and selects 'Save and back' 		
	 User selects the sto the 'End Mood' screet 4. A toast is displayed longer being tracke 	p walk button. User is presented with een. User inputs selects the 'Exit' button to notify the user their location is no d.	
	A summary of the u activities they performed activities they performed	sers walk is displayed, including the prmed	
Test Data:	 User selects 'Fetch' User does not select Back' without a select 	t and activity and selects 'Save and ection	
Expected Result:	 Once current activities set on the map when this. After user end users which presen walk including actives. The user is optional No icon will be disp and when the user activities were recomposite the transmission. 	ty is selected 'Fetch' a fetch emoji icon is ere the user was at the time of selecting and saves the walk, a summary of the ts the user relevant information of that ities recorded. Iy selecting not to record any activities. layed once the user selects no activity is viewing the saved walk, it will state no rded.	
Actual Result:	 As expected. As expected 		
Comments:	User can add as many activ displayed as icons on the n accordingly.	ities as they wish and these are hap once recorded, saved and displayed	
iest Status:	PA22		

Test Case No: TC7	Related Requirement: FR5		
Test Description:	Verify user can optionally add a place to the walk		
Prerequisites:	App is running		
	User is logged into the system		
	User has started a walk and is on the walk screen		
Test Procedure:	1. User selects a place on the map.		
	2. User is presented with a dialog box confirming the addition		
	of the place to the walk. User selects test data response.		
	3. User is sent back to the walk screen.		
	4. User selects the stop walk button. User is presented with		
	the 'End Mood' screen. User inputs selects the 'Exit' button		
	5. A toast is displayed to notify the user their location is no		
	longer being tracked.		
	6. A summary of the users walk is displayed, including the		
	activities they performed		
Test Data:	1. User selects 'Yes'		
	2. User selects 'No'		
Expected Result:	1. Once the user selects yes, the place is added to the walk		
	and visually shown to the user by a marker being displayed		
	on the map. Once finished walk and on summary page, this		
	place marker is snown.		
	2. Once the user selects no, they are taken back to their walk		
	and the place is not added to their walk.		
Actual Result:	1. As expected.		
Commontes	2. As expected.		
comments:	oser can add as many places as they wish and these are displayed		
	as markers on the map once recorded, saved and displayed		
Tost Status:			
Test Status:	FA33		

Test Case No: TC8	Related Requirement: FR6	
Test Description:	Verify user can optionally add a photograph to their walk	
Prerequisites:	App is running	
	User is logged into the system	
	User has started a walk and is on the walk screen	
Test Procedure:	1. User selects the '+' button on the map. User selects 'Add a	
	picture'	
	2. User is shown the 'Add a photo' screen. User selects the	
	'Select image' button	
	3. User selects image from their image library.	
	4. User is sent back to the 'Add a photo' screen and the	
	chosen image is displayed.	
	5. User selects test data response.	
	6. User is sent back to the walk screen.	
	7. User selects the stop walk button. User is presented with	
	the 'End Mood' screen. User inputs selects the 'Exit' button	
	8. A toast is displayed to notify the user their location is no	
	longer being tracked.	
	9. A summary of the users walk is displayed.	
Test Data:	 User selects 'Upload image' 	
	3. User selects the exit button and does not upload a photo.	
Expected Result:	1. Once the user selects upload image, the image is stored	
	into Firebase storage. Once viewing summary of walk, the	
	image is attached to the walk and the user can view it.	
	2. Once the user selects exit, no image is attached to the walk	
	and the summary does not include a photo.	
Actual Result:	1. As expected.	
	2. As expected.	
Comments:	User can only add one photo per walk.	
Test Status:	PASS	

Test Case No: TC9	Related Requirement: FR7		
Test Description:	Verify user can view past walk entries and filter these by time		
Prerequisites:	App is running		
	User is logged into the system & has previously saved walks		
	User is on the past walk screen		
Test Procedure:	1. User is on past walk screen viewing all past walks in		
	descending order of time by default.		
	2. User selects the dropdown menu and selects the user test		
	data option.		
	3. Walks are displayed in the format selected.		
Test Data:	1. User selects "Most Recent"		
	2. User selects "Least Recent"		
	3. User selects "Daily"		
	4. User selects "Weekly"		
	5. User selects "Monthly"		
Expected Result:	1. Users walks are displayed sorted by most recent walk first.		
	2. Users walks are displayed sorted by least recent walk first.		
	3. Users are sorted by day, with all walks sorted into each		
	day. With most recent day first.		
	4. Users are sorted by week, with all walks sorted into each		
	week. With most recent week first.		
	5. Users are sorted by month, with all walks sorted into each		
	month. With most recent month first.		
Actual Result:	1. As expected.		
	2. As expected.		
	3. As expected.		
	4. Walks are sorted into each week, but they are not sorted		
	by most recent week first.		
	5. Walks are sorted into each month. but least recent month		
	is first rather than most recent.		
Comments:	Walks are sorted in 4 and 5, but just displayed in the incorrect		
	order.		
Test Status:	FAIL		

Test Case No: TC10	Related Requirement: FR8		
Test Description:	Verify user can view an individual past walk		
Prerequisites:	App is running		
	User is logged into the system & has previously saved walks		
	User is on the past walk screen		
Test Procedure:	1. User is on past walk screen viewing all past walks in		
	descending order of time by default.		
	2. User selects the user test data walk		
	3. The individual walk is displayed		
Test Data:	1. User selects the walk on 'Sunday 3 rd May @ 18:47'		
Expected Result:	1. The walk taken on Sunday 3 rd May @ 18:47 is displayed		
	including all details: Route taken, time taken, moods,		
	activities, photograph and places recorded for that walk.		
Actual Result:	1. As expected		
Comments:	User can access an individual past walk immediately after finishing		
	a walk.		
Test Status:	PASS		

Test Case No: TC11	Related Requirement: FR9	
Test Description:	Verify user can delete an individual past walk	
Prerequisites:	App is running	
	User is logged into the system & has previously saved walks	
	User is on the past walk screen	
Test Procedure:	1. User is on past walk screen viewing all past walks in	
	descending order of time by default.	
	User selects the user test data walk	
	3. The individual walk is displayed	
	4. User selects toolbar overflow menu in the top left	
	5. User selects 'Delete a walk' option	
	6. User selects option in pop up confirmation dialog by	
	selecting option in user test data	
Test Data:	1. User selects the walk on 'Sunday 3 rd May @ 18:47' and	
	selects 'Yes' in dialog confirmation.	
	2. User selects the walk on 'Sunday 3 rd May @ 18:47' and	
	selects 'No' in dialog confirmation.	
Expected Result:	1. Once the user selects yes, a toast confirmation of walk	
	deleted will appear and user will be taken back to the main	
	walk screen.	
	2. Once the user selects no, the user will be taken back to the	
	individual walk screen for the walk on Sunday 3 rd May.	
Actual Result:	1. As expected	
	2. As expected	
Comments:		
Test Status:	PASS	

Test Case No: TC12	Related Requirement: FR10	
Test Description:	Verify user can view statistics regarding their walks	
Prerequisites:	App is running	
	User is logged into the system & has previously saved walks	
	User is on the User Profile screen	
Test Procedure:	1. User is on their personalised profile page and their	
	personalised walk data is shown, this includes: most	
	common start/current/ending mood, activity, average	
	distance and number of walks.	
Test Data:	NA	
Expected Result:	1. User's personalised details are shown and correct	
Actual Result:	1. As expected	
Comments:		
Test Status:	PASS	

Test Case No: TC13	Related Requirement: FR10
Test Description:	Verify user can view statistics regarding their walks
Prerequisites:	App is running
	User is logged into the system & has zero previously saved walks
	User is on the User Profile screen
Test Procedure:	1. User is on their personalised profile page and their
	personalised walk data is shown, this includes: most
	common start/current/ending mood, activity, average
	distance and number of walks.
Test Data:	NA
Expected Result:	1. As user has not any saved walks, all statsitics will show as
	NA
Actual Result:	1. As expected
Comments:	
Test Status:	PASS

Test Case No: TC14	Related Requirement: FR11
Test Description:	Verify the user can perform search analysis of the walk entries,
	displaying emotions that match the provided emojis
Prerequisites:	App is running
	User is logged into the system & has previously saved walks
	User is on the Past walks screen
Test Procedure:	1. User selects the mood stated in user test data
	2. Any walks with that mood recorded in it are displayed, in
	descending order.
Test Data:	1. User selects the 'Happy' emoji
	2. User selects the 'Sad' emoji
	3. User selects the 'Amazing' emoji
Expected Result:	1. Walks with the happy emoji recorded are displayed
	2. No walks are displayed as no walks have the sad emoji
	recorded
	3. Walks with the amazing emoji are displayed
Actual Result:	1. As expected
	2. As expected
	3. As expected
Comments:	When no moods are displayed, no visual indication of this just a
	blank screen
Test Status:	PASS

Test Case No: TC15	Related Requirement: FR12
Test Description:	Verify the user can delete their profile, including all location data
Prerequisites:	App is running
	User is logged into the system and is on the User Profile screen
Test Procedure:	1. User selects the overflow menu in the top corner and
	selects the delete profile option
	2. User is presented with a confirmation dialog of deletion
	3. User selects the option in the user test data
Test Data:	1. User selects 'Yes'
	2. User selects 'No'
Expected Result:	1. User confirms deletion and a toast confirming deletion is
	shown. User is taken back to application starting screen
	and all details of the user are deleted
	2. User selects no and is taken back to the User Profile screen.
	Their account is not deleted.
Actual Result:	1. As expected
	2. As expected
Comments:	There is no option to just delete location data except delete each
	walk individually
Test Status:	PASS

Test Case No: TC16	Related Requirement: FR13
Test Description:	Verify the user can share details of a walk with their friends via
	email/message.
Prerequisites:	App is running
	User is logged into the system and is on the User Profile screen
Test Procedure:	1. User is on past walk screen viewing all past walks in
	descending order of time by default.
	2. User selects the user test data walk
	3. The individual walk is displayed
	4. User selects toolbar overflow menu in the top left
	5. User selects 'Share walk' option
	6. User selects method option in user test data
Test Data:	1. User selects the walk on 'Sunday 3 rd May @ 19:21' and
	selects to share the walk via Message. User sends message
	to the following number: +447545283378
	2. User selects the walk on 'Sunday 3 rd May @ 19:21' and
	selects to share the walk via Email. User sends message to
	the following email: ShieldsA@cardiff.ac.uk
Expected Result:	1. User's messages are displayed with a pre set message
	detailing the users walk on Sunday 3 rd May @ 19:21. This
	will include the distance, time and any activities performed.
	User sends the message and this is received by their friend.
	2. User's messages are displayed with a pre set message
	detailing the users walk on Sunday 3 ^{ra} May @ 19:21. This
	will include the distance, time and any activities performed.
	User sends the email and this is received by their friend.
Actual Result:	1. As expected
	2. As expected
Comments:	
Test Status:	PASS

Test Case No: TC17	Related Requirement: FR14
Test Description:	Verify the user can edit their personal details
Prerequisites:	App is running
	User is logged into the system and is on the User Profile screen
Test Procedure:	1. User selects their name in the Your name text box.
	2. User changes this from Sarah to test data
	3. User selects their dogs name in the Dogs name text box.
	User changes this from Max to test data
	5. User selects 'Update details' button
Test Data:	1. Your name change to: Amy. Dogs name change to: Brian
	2. Your name change to: "". Dogs name change to: ""
Expected Result:	1. Name and dogs name is changed to Amy and Brian. This is
	updated in the database and reflected throughout the
	personalisation aspects in the app such as the toolbar.
	2. A toast is displayed to prompt the user to enter a name for
	both and not leave this empty. The changes are not saved.
Actual Result:	1. As expected
	2. As expected
Comments:	
Test Status:	PASS

Test Case No: TC18	Related Requirement: FR15
Test Description:	Verify the user will receive notifications to let them know once
	they have hit their pre inputted target distance for the day
Prerequisites:	App is running
	User is logged into the system and is on the User Profile screen
	User has walked a certain amount of distance that day
Test Procedure:	1. User will receive a notification on their phone.
Test Data:	NA
Expected Result:	1. The notification will state they have reached their target of
	distance for that day which was pre set.
Actual Result:	 No notification – feature not implemented
Comments:	Due to timing, feature was not implemented
Test Status:	FAIL

Test Case No: TC19	Related Requirement: NFR4
Test Description:	Verify The system will provides a help feature
Prerequisites:	App is running
	User is logged into the system
	User is on the Start Walk Screen
Test Procedure:	1. User navigates to test data screen
	User selects the overflow menu at the top of the screen
	3. User selects 'Help' option
Test Data:	1. User navigates to 'User Profile'
	User navigates to 'Start a walk' screen
	3. User navigates to 'Past walks'
Expected Result:	1. User profile help screen will be displayed with relevant
	information
	2. Start a walk help screen will be displayed with relevant
	information
	3. Past walks help screen will be displayed with relevant
	information
Actual Result:	1. As expected
	2. As expected
	3. As expected
Comments:	
Test Status:	PASS