

# **SportLook**

## **Testing Specifications and Procedures**



March 25, 2015

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## **QUALIFICATION STATEMENT**

All product names and services identified throughout this document are trademarks or registered trademarks of their respective companies.

## **1 SCOPE**

### **1.1 System Overview**

The purpose of this test specification of SportLook is to enhance its existing system and further address customer needs.

### **1.2 Overview**

In this document the requirements from the Requirement Specification document of the project SportLook will be analyzed and written down to several structured test cases.

### **1.3 Performance Testing**

This document does not address Performance Testing for SportLook.

### **1.4 Security Test and Evaluation**

This document does not address Certification and Accreditation (C&A) Security Test and Evaluation (ST&E) testing for SportLook.

### **1.5 System Compatibility Testing**

This document does not address System Compatibility Testing (SCT) for SportLook

## **2 REFERENCED DOCUMENTS**

The following documents are either referenced in or were used in preparation of this document:

### **2.1 Project Specific Document References**

*Requirements Specification for SportLook* March 10, 2015.

### 3 TEST SPECIFICATIONS AND PROCEDURES

#### 3.1 Features to be Tested

Specific functionality and features of SportLook to be tested are included in Appendix B, Requirements To Test Allocation Matrix.

The principal features to be tested are categorized into the following areas:

- a) Functional requirements

#### 3.2 Feature Pass/Fail Criteria

Any discrepancies identified are classified as one of three types defined in Table 3-1:

**Table 3-1 Severity Rankings for Discrepancies**

Severity ID	Severity	Description
1	Critical	The App crashes
2	Major	Unexpected values, errors in the layout, non functioning buttons
3	Minor	Misspellings, misplaced views

**Table 3-2 Priority List for errors/bugs**

Priority	Priority Level	Priority Description
5	Must Fix	This bug must be fixed immediately; the product cannot ship with this bug.
4	Should Fix	These are important problems that should be fixed as soon as possible. It would be an embarrassment to the company if this bug shipped.
3	Fix when have time	The problem should be fixed within the time available. If the bug does not delay shipping date, then fix it.
2	Low Priority	It is not important (at this time) that these bugs be addressed. Fix these bugs after all other bugs have been fixed.
1	Trivial	Enhancements/ Good to have features incorporated- just are out of the current scope.

#### Input Specifications

See the Operator Action column for the detailed input specifications in Section 3.8.

### 3.3 Output Specifications

See the Expected Results column for the expected outputs of each operator action in Section 3.8.

### 3.4 Environmental Needs

SDL will supply the test environment and is responsible for building the test database.

#### 3.4.1 Hardware

- iPhone (iOS version 8+)

#### 3.4.2 Other Needs

- a) System IDs and passwords.
- b) Facebook account

### 3.5 Test Specifications & Procedures

**Test Name:** Test Case 1: Login test case with email  
**Description:** The user will be able to login with an existing account.  
**Requirement(s):** BR-03  
**Prerequisites:** Active internet connection, user has created the account on beforehand.  
**Setup:** The user downloaded the app, but haven't logged in.

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
1. 1.	Open the app	Display the home screen		Pass
2. 2.	Click login	Display the login screen		Pass
3. 3.	Enter email & password	Show the input values in the text fields. Password is secure text entry		Pass
4. 4.	Tap login	Loading is displayed <b>Success:</b> User logged in show My Events screen <b>Failure:</b> Error message shown to the user	Succesfully logged in.	Pass

**Test Name:** Test Case 2: Login test case with Facebook  
**Description:** The user will be able to login with an existing Facebook account.  
**Requirement(s):** BR-04  
**Prerequisites:** Active internet connection, user has signed up with Facebook beforehand.  
**Setup:** The user downloaded the app, but haven't logged in.

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
5. 1.	Open the app	Display the home screen		
6. 2.	Click login	Display the login screen		
7. 3.	Click "Login with Facebook"	Take user to Facebook app/website to validate login		
8. 4.	Validate Facebook to get user data/use Facebook with the app	<b>Success:</b> Get to My events page <b>Failure:</b> Error message shown to the user		

**Test Name:** Test Case 3: Create a new account with email**Description:** The user will be able to create an account and select the favorite sport categories.**Requirement(s):** BR-01**Prerequisites:** Active internet connection, user does not have a account with the email**Setup:** The user downloaded the app, but does not have an account.

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
9. 1.	Open the app	Display the home screen		
10. 2.	Click signup	Display the signup screen		
11. 3.	Enter name, email, location & password information	Show the input values in the text fields. Password is secure text entry		
12. 4.	Select profile photo from photo gallery	Show profile picture in the signup screen		
13. 5.	Click next	Go to select favorite categories screen		
14. 6.	Select favorite categories	Selected categories highlighted in bold and bigger text		
15. 7.	Click finish	<b>Success:</b> Get to My events page <b>Failure:</b> Error (create user) message shown to the user		

**Test Name:** Test Case 4: Create a new account with Facebook**Description:** The user will be able to create a SportLook account with existing Facebook account and select the favorite sport categories.**Requirement(s):** BR-02**Prerequisites:** Active internet connection, user has not signed up with Facebook**Setup:** The user downloaded the app, but does not have an account.

Steps:



Step	Operator Action	Expected Results	Observed Results	Pass/Fail
16. 1.	Open the app	Display the home screen		
17. 2.	Click signup	Display the signup screen		
18. 3.	Click signup with Facebook	Go to the Facebook app/website to authorize the app to get information		
19. 4.	Click authorize in Facebook	Go to select favorite sport categories screen		
20. 5.	Select favorite categories	Selected categories highlighted in bold and bigger text		
21. 6.	Click finish	<b>Success:</b> Get to My events page <b>Failure:</b> Error (create user) message shown to the user		

**Test Name:** Test Case 5: Show nearby events on a map  
**Description:** The user will be able to see nearby events on map.  
**Requirement(s):** BR-06  
**Prerequisites:** Active internet connection, user is logged in.  
**Setup:** The user is logged in and has selected at least one favorite sport type.

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
22. 1.	Click Search Events	Show map		

**Test Name:** Test Case 6: Filter events on map by type/category  
**Description:** The user will be able to see selected categories on map.  
**Requirement(s):** BR-08  
**Prerequisites:** Active internet connection. There are created events in the server, user is logged in  
**Setup:** The user is logged in and has selected at least one favorite sport type.

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
23. 1.	Click Search Events	Show map		
24. 2.	Click Filter	Show filter screen		
25. 3.	Select the desired types of sport events the user wants to see	The selected events get highlighted		
26. 4.	Click Apply	Go back to Search events, which now displays the filtered results		

**Test Name:** Test Case 7: Viewing sport event information on map pins  
**Description:** The user will be able to view basic information about an event on a map pin

**Requirement(s):** BR-09  
**Prerequisites:** Active internet connection. There are created events in the server, user is logged in  
**Setup:** The user is logged in and has tapped 'Search events' (test case 5)

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
27. 1.	Click Search Events	Show map		
28. 2.	Tap on a map pin	Show annotation with basic event information, containing name, type, date		

**Test Name:** Test Case 8: Viewing sport event information  
**Description:** The user will be able to view detailed event information  
**Requirement(s):** BR-09  
**Prerequisites:** Active internet connection. The event has been created beforehand, user is logged in  
**Setup:** The user is logged in and has tapped 'Search events' (test case 5)

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
29. 1.	Click Search Events	Show map		
30. 2.	Tap on a map pin	Show pop-up with basic event information, containing name, type, date		
31. 3.	Tap the view 'More info' button in the pop-up	Show detailed event information screen, including event image, name, date, time, participants, description, location		

**Test Name:** Test Case 9: The user will be able to join an event  
**Description:** The user finds an event that he wants to join  
**Requirement(s):** BR-10  
**Prerequisites:** Active internet connection. The event has been created beforehand, user is logged in  
**Setup:** The user is logged in and has selected an event from 'Search Events'

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
32. 1.	Click Search Events	Show map		
33. 2.	Tap on a map pin	Show pop-up with basic event information, containing name, type, date		

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
34. 3.	Tap the view 'More info' button in the pop-up	Show detailed event information screen, including event image, name, date, time, participants, description, location		
35. 4.	Tap the 'Join' button	The user receives a success message and he has been added to the event's participants list		

**Test Name:** Test Case 10: The user will be able to leave an event  
**Description:** The user previously joined an event and now wants to leave it  
**Requirement(s):** BR-10  
**Prerequisites:** Active internet connection. The user joined the event beforehand, user is logged in  
**Setup:** The user is logged in and has selected a previously joined event from 'Search Events'

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
36. 1.	Click Search Events	Show map		
37. 2.	Tap on a map pin	Show pop-up with basic event information, containing name, type, date		
38. 3.	Tap the view 'More info' button in the pop-up	Show detailed event information screen, including event image, name, date, time, participants, description, location		
39. 4.	Tap the 'Leave' button	The user receives a success message and he has been removed from the event's participants list		

**Test Name:** Test Case 11: The user will be able to share an event by Facebook  
**Description:** The user found an event that he wants to share with his friends  
**Requirement(s):** BR-11  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in and has selected an events that he wants to share

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
40. 1.	Click Search Events	Show map		
41. 2.	Tap on a map pin	Show pop-up with basic event information, containing name, type, date		

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
42. 3.	Tap the view 'More info' button in the pop-up	Show detailed event information screen, including event image, name, date, time, participants, description, location		
43. 4.	Tap the 'Share' button	A list with sharing options is displayed, amongst which Facebook		
44. 5.	Tap 'Facebook' option	A preview of the sharing message is displayed (title and description)		
45. 6.	Tap 'Post'	A success message is displayed		

**Test Name:** Test Case 12: The user will be able to share an event by email  
**Description:** The user found an event that he wants to share with his friends  
**Requirement(s):** BR-11  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in and has selected an events that he wants to share

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
46. 1.	Click Search Events	Show map		
47. 2.	Tap on a map pin	Show pop-up with basic event information, containing name, type, date		
48. 3.	Tap the view 'More info' button in the pop-up	Show detailed event information screen, including event image, name, date, time, participants, description, location		
49. 4.	Tap the 'Share' button	A list with sharing options is displayed, amongst which email		
50. 5.	Tap 'email' option	The 'Mail' app opens		
51. 6.	Tap 'Send'	A success message is displayed		

**Test Name:** Test Case 13: The user will be able to view a list of his events  
**Description:** The user joined or created events and wants to view them  
**Requirement(s):** BR-12  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in and wants to view a list of his events

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
52. 1.	Click My Events	Show list of events joined and created		

**Test Name:** Test Case 14: The user will be able to delete an event

**Description:** The user can delete an event that he created previously  
**Requirement(s):** BR-10  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in and wants to delete an event that he created previously

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
53. 1.	Click My Events	Show list of events joined and created		
54. 2.	Tap on one of the events that the user created	Show event information		
55. 3.	Tap the 'Delete' button	Show confirmation message 'Are you sure you want to delete this event?'		
56. 4.	Tap 'Delete'	A success message is displayed to the user and the event is removed from the 'My events' list		

**Test Name:** Test Case 15: The user will be able to view events on a map, by using his location  
**Description:** The user can view events close to his location  
**Requirement(s):** BR-07  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in and has selected at least one favorite sport type.

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
57. 1.	Click Search Events	Show map		
58. 2.	Tap 'Use my location' button	Display dialog for requesting permission to use location of the user		
59. 3.	Tap 'Ok'	The map is centered at the location of the user and nearby events are displayed on the map		

**Test Name:** Test Case 16: The user will be able to select favorite sports from a list  
**Description:** The user can select his favorite sports from a predefined list  
**Requirement(s):** BR-05  
**Prerequisites:** Active internet connection, user is logged in (or has signed up)  
**Setup:** The user is logged in (or has signed up)

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
60. 1.	Sign up	Display list of favorite sports choices		

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
61. 2.	Tap the sports that are meant to be selected	The selected sports become highlighted		
62. 3.	Tap 'Finish'	A success message is displayed to the user		

**Test Name:** Test Case 17: The user will be able to view sport event information of his events  
**Description:** The user can view detailed sport event information for the events he created  
**Requirement(s):** BR-13  
**Prerequisites:** Active internet connection, user is logged in, event(s) created beforehand  
**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
63. 1.	Tap 'My events'	Display list of events created and joined		
64. 2.	Tap one of the events from the 'created' category	Display detailed information about the event		

**Test Name:** Test Case 18: The user will be able to edit sport event information of his events  
**Description:** The user can edit sport event information for the events he created  
**Requirement(s):** BR-14  
**Prerequisites:** Active internet connection, user is logged in, event(s) created beforehand  
**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
65. 1.	Tap 'My events'	Display list of events created and joined		
66. 2.	Tap one of the events from the 'created' category	Display detailed information about the event		
67. 3.	Tap 'Edit'	Display pre-filled fields with all the information regarding the event selected		
68. 4.	Edit any information	Display newly entered information in fields		
69. 5.	Tap 'Save'	Display new information in the event page		

**Test Name:** Test Case 19: The user will be able to create a sport event  
**Description:** The user can create a sport event  
**Requirement(s):** BR-15  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
70. 1.	Tap 'My events'	Display list of events created and joined		
71. 2.	Tap 'Add'	Display fields in which event information is to be entered		
72. 3.	Fill all the required fields	Display newly entered information in fields		
73. 4.	Tap 'Save'	Display list of events created, including the new event		

**Test Name:** Test Case 20: The user will be able to view his profile information  
**Description:** The user can view information regarding his profile  
**Requirement(s):** BR-16  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
74. 1.	Tap 'My profile'	Display profile information		

**Test Name:** Test Case 21: The user will be able to edit his profile information  
**Description:** The user can edit information regarding his profile  
**Requirement(s):** BR-17  
**Prerequisites:** Active internet connection, user is logged in  
**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
75. 1.	Tap 'My profile'	Display profile information		
76. 2.	Tap 'Edit'	Display pre-filled fields with all the information regarding the profile		
77. 3.	Edit any field(s)	Display newly entered information into fields		

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
78. 4.	Tap 'Save'	Display profile information with the new information		

**Test Name:** Test Case 22: The user will be able to view user profiles with common interests

**Description:** The user can view a list of users with the same favorite sports

**Requirement(s):** BR-18

**Prerequisites:** Active internet connection, user is logged in, user selected at least one favorite sport

**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
79. 1.	Tap 'Discover'	Display a list of user profiles with common favorite sports		

**Test Name:** Test Case 23: The user will be able to view user profiles with common interests, in a specific radius

**Description:** The user can view a list of users with the same favorite sports, in a specific radius, input by the user

**Requirement(s):** BR-19

**Prerequisites:** Active internet connection, user is logged in, user selected at least one favorite sport

**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
80. 1.	Tap 'Discover'	Display a list of user profiles with common favorite sports		
81. 2.	Tap 'Filter by radius' button	Display radius selector		
82. 3.	Select a radius in KM	Display the updated list of user profiles with common favorite sports, in the radius selected by the user		

**Test Name:** Test Case 24: The user will be able to view user profiles participating in events

**Description:** The user can view user profiles of participants in sport events

**Requirement(s):** BR-20

**Prerequisites:** Active internet connection, user is logged in

**Setup:** The user is logged in



Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
83. 1.	Tap 'Search events'	Display map with sport events as pins		
84. 2.	Tap on a pin	Display basic event information		
85. 3.	Tap 'Show more' button on the pin	Display detailed event information, including a list of participants at the event		
86. 4.	Tap on the profile picture of a participants	Display profile information		

**Test Name:** Test Case 25: The user will be able to be notified when there is a new message in the chat for the event he is participating in

**Description:** The user will receive a push notification when there is a new message in the chat for the event he is participating in

**Requirement(s):** BR-21

**Prerequisites:** Active internet connection, user is logged in, user joined at least 1 event

**Setup:** The user is logged in

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
87. 1.	Phone is turned on	Display a push notification informing the user about a new message in the chat		
88. 2.	Tap on the push notification	Display chat belonging to the event where there is a new message		

**Test Name:** Test Case 26: The user will be notified in case he entered invalid input in any field

**Description:** The user can know if he entered invalid input in any field

**Requirement(s):** BR-22

**Prerequisites:** Active internet connection

**Setup:** User downloaded the app

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/Fail
89. 1.	User enters information in any text field	Display the newly entered information in the field		
90. 2.	User leaves the field	Validate the field value and inform user if the value entered is incorrect		

**Test Name:** Test Case 27: The user can view an overview of the attended events  
**Description:** The user can see an overview of the past attended events  
**Requirement(s):** BR-24  
**Prerequisites:** Active internet connection  
**Setup:** User logged in, user attended at least 1 event

Steps:

Step	Operator Action	Expected Results	Observed Results	Pass/ Fail
91. 1.	Tap 'My events'	Display the joined and created events, along with a pie chart documenting past attended events		

**APPENDIX A      ACRONYMS AND ABBREVIATIONS**

ATC	Accommodation Technology Compliance
C&A	Certification & Accreditation
CD	Change Document
CM	Configuration Management
COTS	Commercial Off-The-Shelf
EIT	Electronic Information Technology
FQT	Functional Qualification Testing
GUI	Graphical User Interface
HP	Hewlett-Packard
ID	Identification
OCIO	Office of Chief Information Officer
PTOnet	USPTO's campus-wide network
QA	Quality Assurance
RTMx	<i>RTMx Report</i>
SCT	System Compatibility Testing
SDL	System Development Manager
ST&E	Security Test and Evaluation
USPTO	United States Patent and Trademark Office

**APPENDIX B REQUIREMENTS TO TEST ALLOCATION MATRIX**

<b>Req#</b>	<b>Requirement</b>	<b>Comments</b>	<b>Priority</b>	<b>Date reviewed</b>	<b>Approved by</b>
BR-01	The user will be able to signup with email and password.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-02	The user will be able to signup with Facebook.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-03	The user will be able to login with email and password.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-04	The user will be able to login with Facebook.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-05	The user will be able to select their favorite sports from a list of sports.	Agreed with the client in initial brainstorming. The user will not be able to add a new sport to the list.	1	01/02/2015	Client + dev team
BR-06	The user will be able to view sport events on a map.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-07	The user will be able to view sport events on a map, by using his location.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-08	The user will be able to filter the events on the map by selecting sport categories from a list.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-09	The user will be able to view sport event information (date, address, duration, photo, chat) by tapping on a pin on the map.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-10	The user will be able to join, leave and delete a sport event.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-11	The user will be able to share the event by Facebook and email.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-12	The user will be able to view a list of his events (created, joined).	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-13	The user will be able to view the sport event information of his events (participants, sport type, address, date and time, duration, chat).	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team

BR-14	The user will be able to edit the sport event information of his events (as stated above in BR-13).	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-15	The user will be able to create a sport event, inputting: name, date and time, address, photo, description.	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-16	The user will be able to view his profile (photo, name, favorite sports, location, password).	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-17	The user will be able to edit his profile (as state above in BR-16).	Agreed with the client in initial brainstorming.	1	01/02/2015	Client + dev team
BR-18	The user will be able to view a list of users interested in the same sport categories.	Discussed with the client and agreed as 'extra' feature.	3	01/03/2015	Client + dev team
BR-19	The user will be able to view a list of users interested in the same sport categories, in a radius of the user's location, radius specified by the user.	Discussed with the client and agreed as 'extra' feature.	3	01/03/2015	Client + dev team
BR-20	The user will be able to view the profiles of other users participating in sport events.	Discussed with the client and agreed as 'extra' feature.	3	01/03/2015	Client + dev team
BR-21	The user will receive a push notification whenever there will be a new message in the chat for the events he participates in.	Discussed with the client and agreed as 'extra' feature.	3	01/03/2015	Client + dev team
BR-22	All the input fields will be validated after the user leaves the field.	Discussed and agreed with the dev team.	2	05/03/2015	Dev team
BR-23	All the views that will appear more than once will be developed as reusable fields.	Discussed and agreed with the dev team.	2	05/03/2015	Dev team
BR-24	The 'My events' screen will have a pie chart giving an overview of all attended events and the different sport types.	Discussed with the dev team.	3	05/03/2015	Dev team