Test Case 1

Route used for test case 1

Test Execution Date: 16/7/2018

Test Duration: - minute - seconds

Pre-Conditions: User is not blindfolded.   User must be logged in to an account.   Bluetooth and Microphone must be granted permission on the phone.

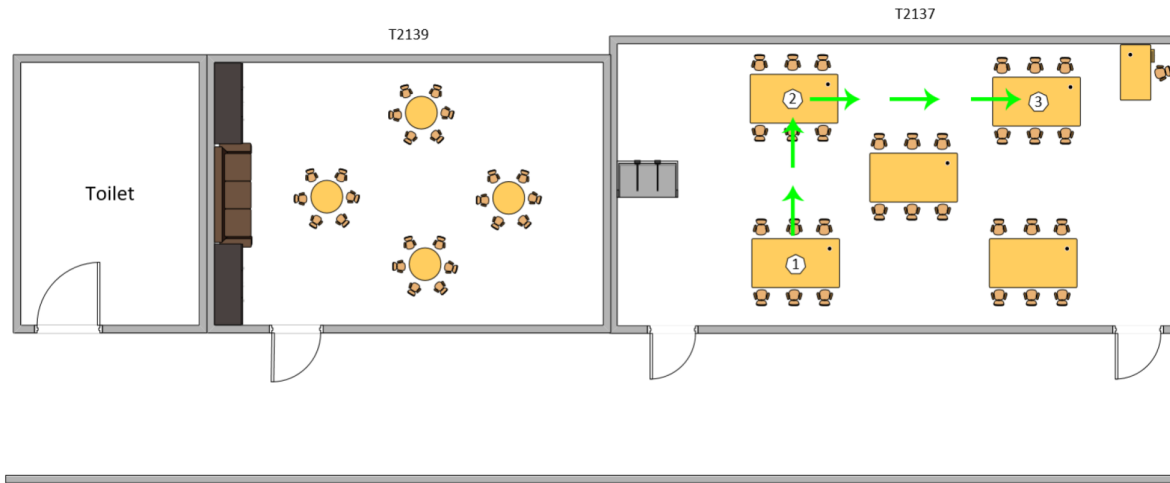| **Specifications:**
 Beacon Distance: **4 meters**
 Distance between beacon & ground: **75cm**
 Compass Bearing: **+- 5**
 Avg Moving Speed: **unknown** |
| --- |

Description: Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination to be Beacon 3	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message continuously tries to correct the user into the correct direction towards Beacon 2 without success. User did not reach beacon 2.	Fail
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message continuously tries to correct the user into the correct direction towards beacon 3 without success. User did not reach beacon 3 and went off course.	Fail

Test Case 2

T2139

T2137

Toilet

Route used for test case 2

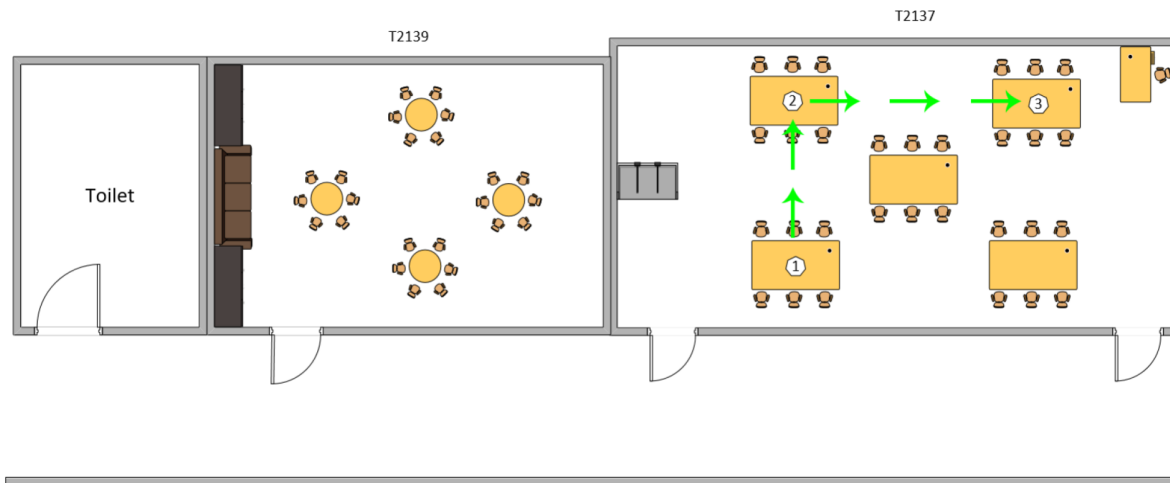|	
Test Execution Date: 16/7/2018	
Test Duration: 1 minute 20 seconds	
Pre-Conditions: User is not blindfolded. User must be logged in to an account. Bluetooth and Microphone must be granted permission on the phone.	
Specifications: Beacon Distance: **4 meters** Distance between beacon & ground: **75cm** Compass Bearing: **+- 10** Avg Moving Speed: **unknown**	
Description: Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well.	

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination as Beacon 3 and tap on "Start".	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the wrong direction when he is indeed facing the wrong direction and guided the user to face the correct direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 2 to 3 was delayed even when the user is already on beacon 2. When the user has reached beacon 3, the voice message did not inform the user he has reached the destination and instead continued to tell the user to walk straight.	Fail

Test Case 3

T2139

T2137

Route used for test case 3

Test Execution Date: 17/7/2018	

Test Duration: 1 minute 17 seconds

Pre-Conditions: User is not blindfolded. User must be logged in to an account. Bluetooth and Microphone must be granted permission on the phone.

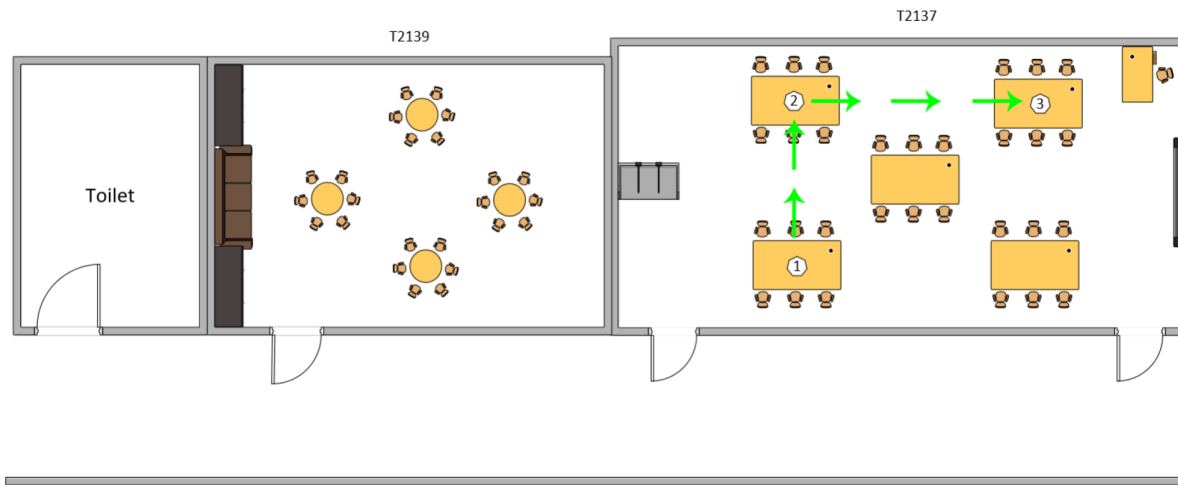| |
|---|
| **Specifications:**
Beacon Distance: **4 meters**
Distance between beacon & ground: **75cm**
Compass Bearing: **+- 10**
Avg Moving Speed: **unknown** |

Description: Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination as Beacon 3 and tap on "Start".	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the wrong direction when he is facing the correct direction.	Fail
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 2 to 3 was delayed even when the user is already on beacon 2. When the user has reached beacon 3, the voice message did not inform the user he has reached the destination and instead continued to tell the user to walk straight.	Fail

Test Case 4

T2139

T2137

Route used for test case 4

Test Execution Date: 17/7/2018	

Test Duration: 1 minute 22 seconds

Pre-Conditions: User is not blindfolded. User must be logged in to an account. Bluetooth and Microphone must be granted permission on the phone.

Specifications: Beacon Distance: **4 meters** Distance between beacon & ground: **75cm** Compass Bearing: **+- 10** Avg Moving Speed: **22cm/s**

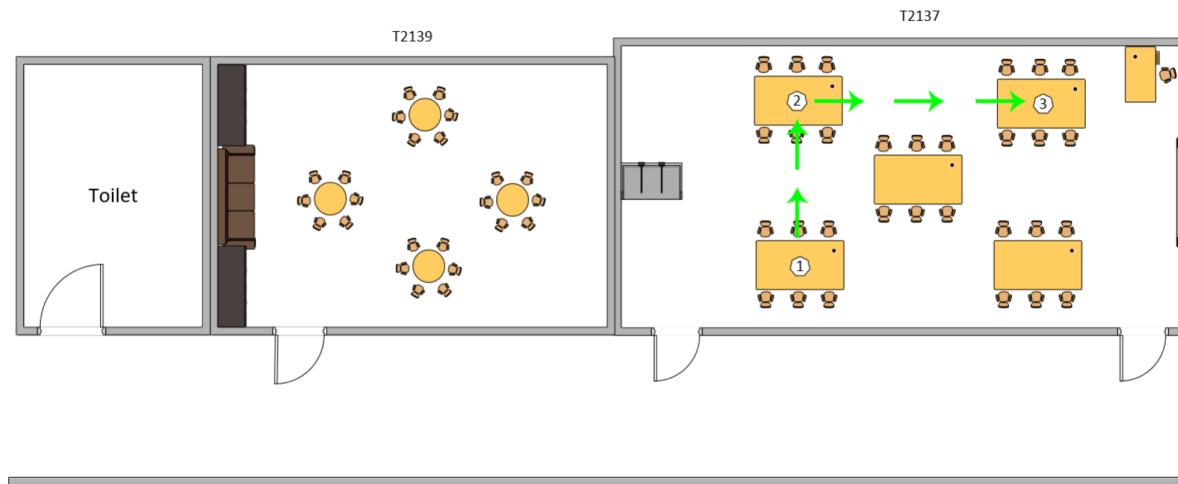| |
|---|
| **Description:**
Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well. |

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination as Beacon 3 and tap on "Start".	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the wrong direction when he is facing the correct direction.	Fail
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user that he is going in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it. Note: Beacon 2 took a long period of time to detect.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 2 to 3 was delayed even when the user is already on beacon 2. When the user has reached beacon 3, the voice message informed the user that he has reached the destination.	Pass

Test Case 5

T2139

T2137

Route used for test case 5

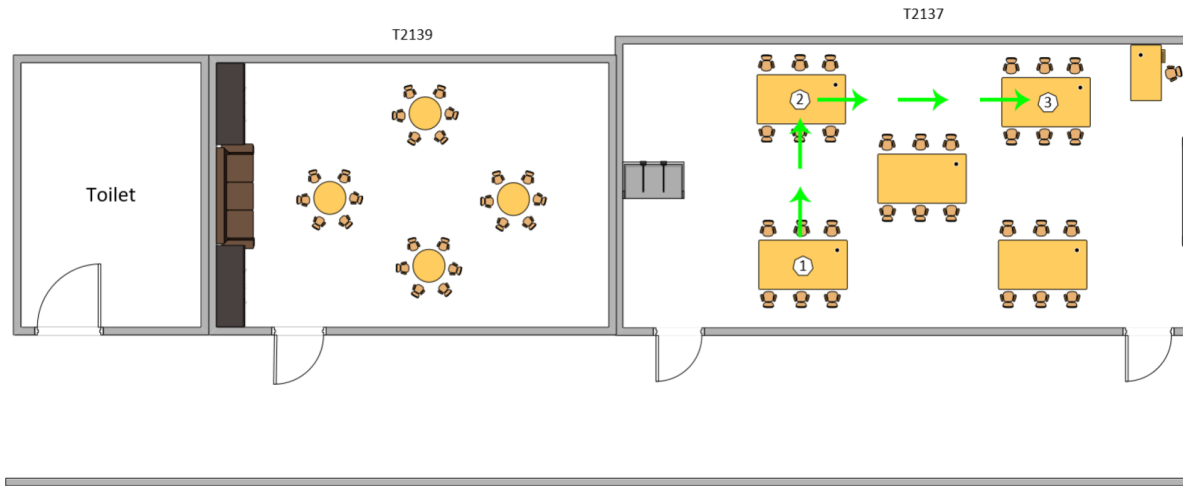| Test Execution Date: 17/7/2018 |
| --- |
| **Test Duration: 0 minute 34 seconds** |
| **Pre-Conditions:**
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone. |
| **Specifications:**
Beacon Distance: **4 meters**
Distance between beacon & ground: **75cm**
Compass Bearing: **+- 10**
Moving Speed: **32cm/s** |
| **Description:**
Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well. |

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination as Beacon 3 and tap on "Start".	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the wrong direction when he is facing the correct direction.	Fail
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user that he is going in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 2 to 3 was read out to the user and it guided the user along the way to the right direction When the user has reached beacon 3, the voice message did not inform the user he has reached the destination and instead continued to tell the user to walk straight.	Pass

Test Case 6

Route used for test case 6

Test Execution Date: 17/7/2018	
Test Duration: 0 minute 47 seconds	

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **4 meters**
Distance between beacon & ground: **75cm**
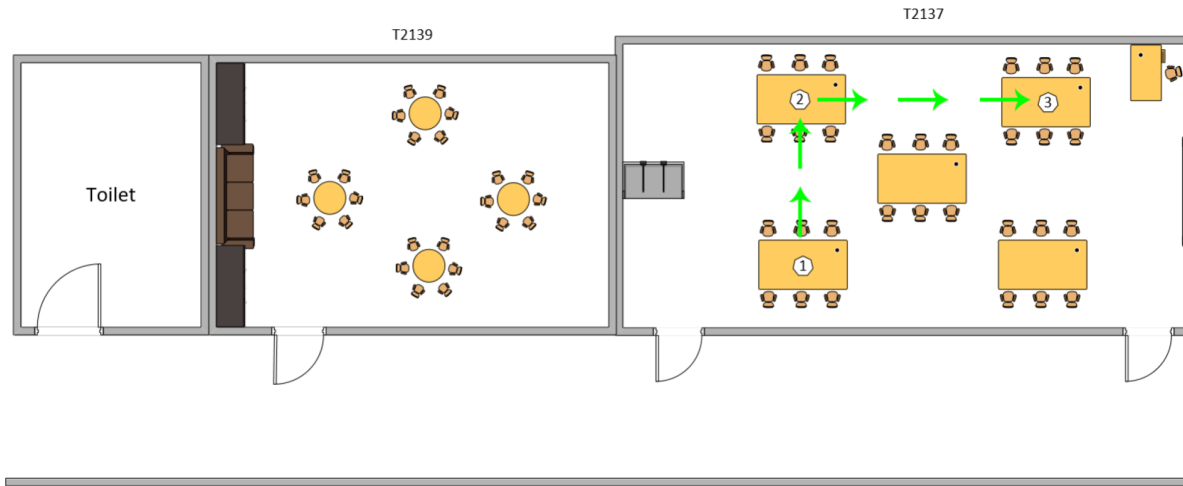Compass Bearing: **+- 10**
Moving Speed: **19.5cm/s**

Description:
Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination to be Beacon 3	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. When the user has reached beacon 3, the voice message informed the user that he has reached the destination.	Pass

Test Case 7

T2139

T2137

Toilet

Route used for test case 7

Test Execution Date: 18/7/2018	

Test Duration: 0 minute 32 seconds

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **4 meters**
Distance between beacon & ground: **75cm**
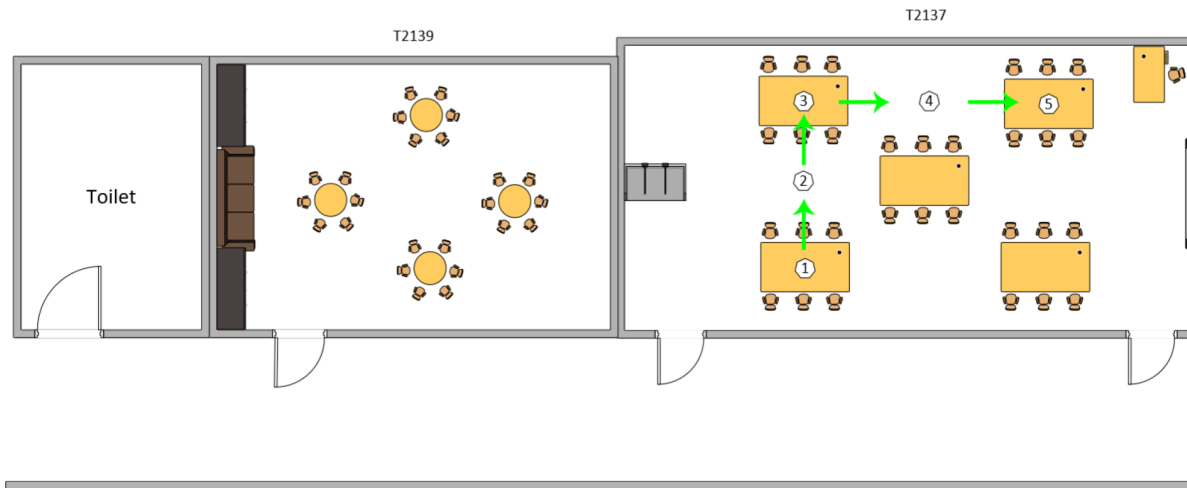Compass Bearing: **+- 10**
Moving Speed: **33 cm/s**

Description:
Navigation from beacon 1 which a desk in T2137 to beacon 3 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination to be Beacon 3	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. It will also tell the user that beacon 2 is a turning point. User will then reach beacon 2 successfully and the application will inform that he has reached the beacon 2	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to turn right and walk straight from beacon 2 to beacon 3. User will reach beacon 3 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. When the user has reached beacon 3, the voice message informed the user that he has reached the destination.	Pass

Test Case 8

T2139

T2137

Route used for test case 8

Test Execution Date: 20/7/2018

Test Duration: 0 minute 43 seconds

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **3 meters**
Detection Range: 30 meters
Distance between beacon & ground: **0cm**
Compass Bearing: **+- 10**
Avg Moving Speed: **42 cm/s**

Description:
Navigation from beacon 1 which a desk in T2137 to beacon 5 which which a desk in T2137 as well.

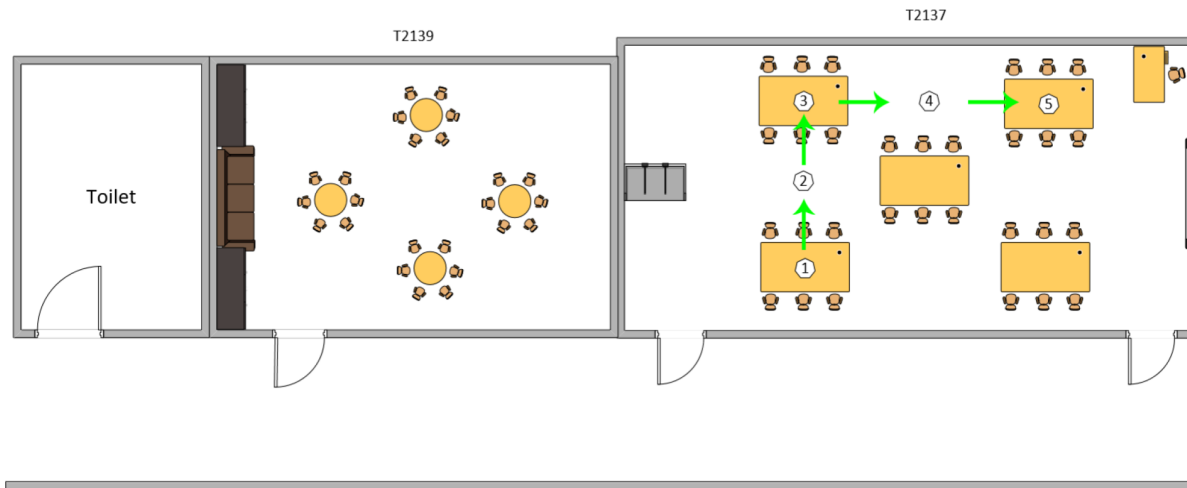| Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination to be Beacon 5	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to walk straight from beacon 2 to beacon 3 and also inform the user that beacon 3 is a turning point. User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 3 and the voice message has informed the user of it.	Pass
6	User navigates from beacon 3 to beacon 4.	A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4. User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.	The voice message containing the step to go from beacon 3 to 4 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 4 and the voice message has informed the user of it.	Pass

			Expected Result	Actual Result	
7	User navigates from beacon 4 to beacon 5.	A voice message will tell the user to walk straight from beacon 4 to beacon 5. User will reach beacon 5 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 4 to 5 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.	Pass

Test Case 9

T2139

T2137

Route used for test case 9

Test Execution Date: 20/7/2018

Test Duration: 0 minute 48 seconds

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **2 meters**
Detection Range: **30 meters**
Distance between beacon & ground: **0cm**
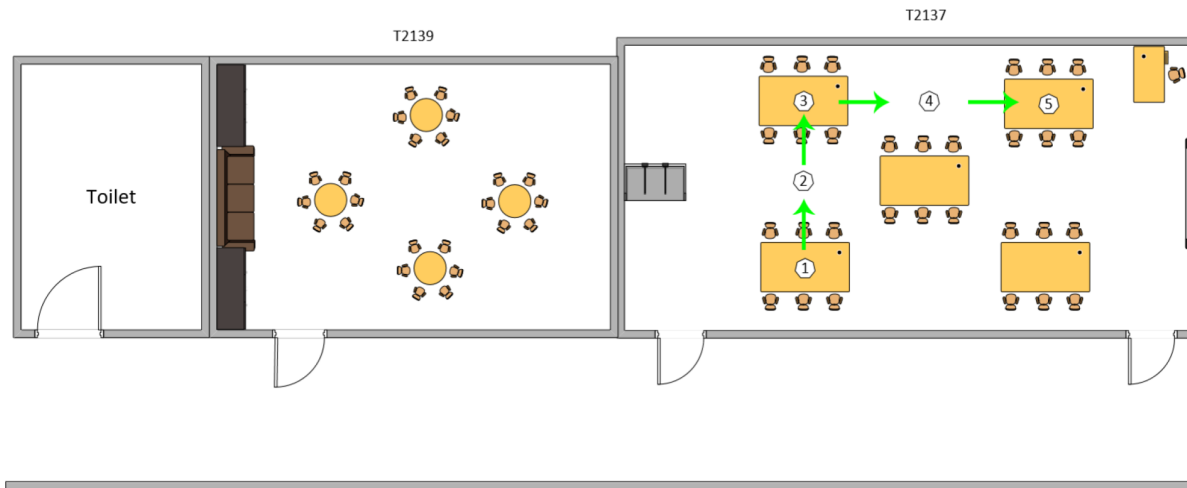Compass Bearing: **+- 10**
Moving Speed: **27 cm/s**

Description:
Navigation from beacon 1 which a desk in T2137 to beacon 5 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 2 instead of Beacon 1 and prompted for a destination.	Fail
3	Enter the destination to be Beacon 5	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to walk straight from beacon 2 to beacon 3 and also inform the user that beacon 3 is a turning point. User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 3 and the voice message has informed the user of it.	Pass
6	User navigates from beacon 3 to beacon 4.	A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4. User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.	The voice message containing the step to go from beacon 3 to 4 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 4 and the voice message has informed the user of it.	Pass

| 7 | User navigates from beacon 4 to beacon 5. | A voice message will tell the user to walk straight from beacon 4 to beacon 5.

User will reach beacon 5 successfully and the application will inform that he has reached the destination. | The voice message containing the step to go from beacon 4 to 5 was read out while also guiding the user to walk in the correct direction.

The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination. | Pass |

Test Case 10

Route used for test case 10

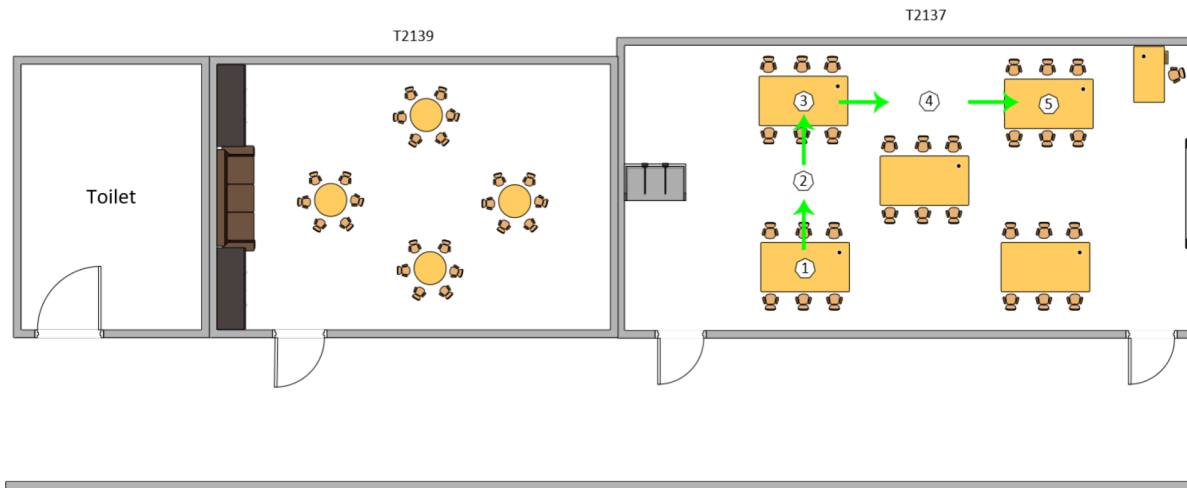| Test Execution Date: 20/7/2018				
Test Duration: 0 minute 43 seconds				
Pre-Conditions: User is not blindfolded. User must be logged in to an account. Bluetooth and Microphone must be granted permission on the phone.				
Specifications: Beacon Distance: **2 meters** Detection Range: **30 meters** Distance between beacon & ground: **0cm** Compass Bearing: **+- 10** Moving Speed: **31cm/s**				
Description: Navigation from beacon 1 which a desk in T2137 to beacon 5 which which a desk in T2137 as well.				

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

		A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	
2	Detect current location automatically as Beacon 1.			Pass
3	Enter the destination to be Beacon 5	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to walk straight from beacon 2 to beacon 3 and also inform the user that beacon 3 is a turning point. User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 3 and the voice message has informed the user of it.	Pass
6	User navigates from beacon 3 to beacon 4.	A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4. User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.	The voice message containing the step to go from beacon 3 to 4 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 4 and the voice message has informed the user of it.	Pass

7	User navigates from beacon 4 to beacon 5.	A voice message will tell the user to walk straight from beacon 4 to beacon 5. User will reach beacon 5 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 4 to 5 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.	Pass

Test Case 11

Route used for test case 11

Test Execution Date: 20/7/2018

Test Duration: 0 minute 43 seconds

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **2.5 meters**
Detection Range: **30 meters**
Distance between beacon & ground: **0cm**
Compass Bearing: **+- 10**
Moving Speed: **31cm/s**

Description:
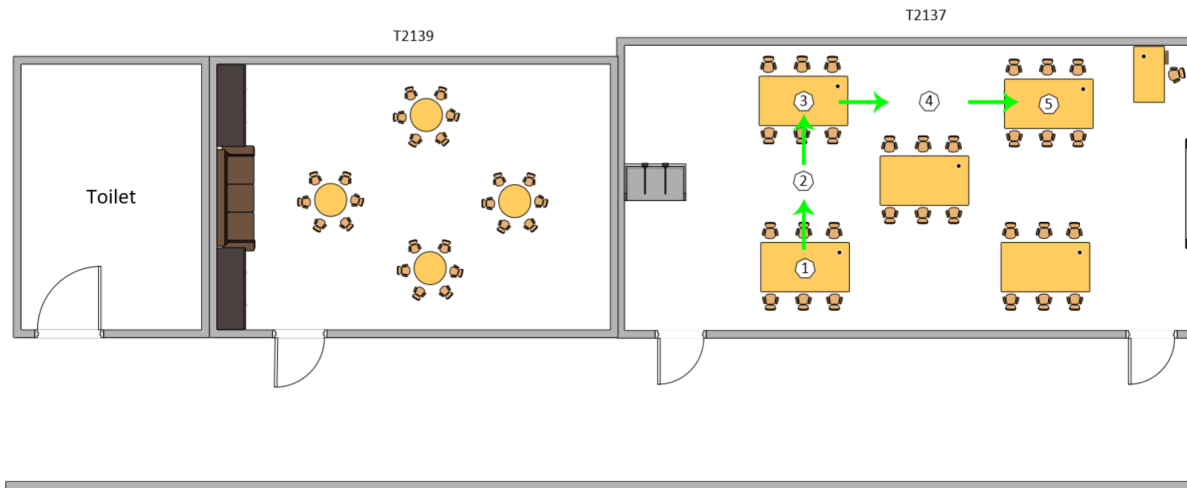Navigation from beacon 1 which a desk in T2137 to beacon 5 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination to be Beacon 5	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to walk straight from beacon 2 to beacon 3 and also inform the user that beacon 3 is a turning point. User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 3 and the voice message has informed the user of it.	Pass
6	User navigates from beacon 3 to beacon 4.	A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4. User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.	The voice message containing the step to go from beacon 3 to 4 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 4 and the voice message has informed the user of it.	Pass

7	User navigates from beacon 4 to beacon 5.	A voice message will tell the user to walk straight from beacon 4 to beacon 5. User will reach beacon 5 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 4 to 5 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.	Pass

Test Case 12

T2139

T2137

Route used for test case 12

Test Execution Date: 20/7/2018

Test Duration: 0 minute 43 seconds

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **1 meter**
Detection Range: **30 meter**
Distance between beacon & ground: **0cm**
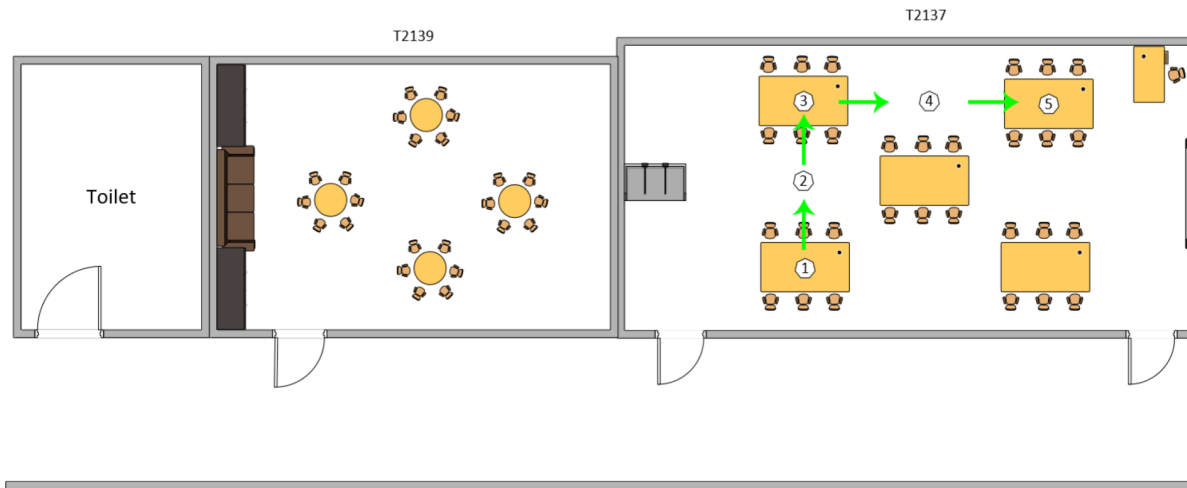Compass Bearing: **+- 10**
Moving Speed: **16 cm/s**

Description:
Navigation from beacon 1 which a desk in T2137 to beacon 5 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

		A voice message will inform the user of his/her current location to be Beacon 1 automatically.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	
2	Detect current location automatically as Beacon 1.	The destination will also be prompted.		Pass
3	Enter the destination to be Beacon 5	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to walk straight from beacon 2 to beacon 3 and also inform the user that beacon 3 is a turning point. User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 3 and the voice message has informed the user of it.	Pass
6	User navigates from beacon 3 to beacon 4.	A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4. User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.	The voice message containing the step to go from beacon 3 to 4 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 4 and the voice message has informed the user of it.	Pass

7	User navigates from beacon 4 to beacon 5.	A voice message will tell the user to walk straight from beacon 4 to beacon 5. User will reach beacon 5 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 4 to 5 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.	Pass

Test Case 13

T2139

T2137

Route used for test case 13

Test Execution Date: 20/7/2018	
Test Duration: 0 minute 43 seconds	

Pre-Conditions:
User is not blindfolded.
User must be logged in to an account.
Bluetooth and Microphone must be granted permission on the phone.

Specifications:
Beacon Distance: **1 meter**
Detection Range: **30 meter**
Distance between beacon & ground: **0cm**
Compass Bearing: **+- 10**
Moving Speed: **18 cm/s**

Description:
Navigation from beacon 1 which a desk in T2137 to beacon 5 which which a desk in T2137 as well.

Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	A voice message will inform the user of his/her current location to be Beacon 1 automatically. The destination will also be prompted.	The voice message informed the user of the current location as Beacon 1 and prompted for a destination.	Pass
3	Enter the destination to be Beacon 5	After entering the destination and tapping on "Start", a voice message will inform the user if he/she is facing the correct direction towards the next beacon. If the user is not facing the correct direction, the voice message will guide the user to the correct position.	After entering the destination and tapping on "Start", the voice message informed that the user is facing the correct direction when he is indeed facing the right direction.	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	A voice message will tell the user to walk straight from beacon 1 to 2. User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.	The voice message containing the step to go from beacon 1 to 2 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 2 and the voice message has informed the user of it.	Pass
5	User navigates from beacon 2 to beacon 3.	A voice message will tell the user to walk straight from beacon 2 to beacon 3 and also inform the user that beacon 3 is a turning point. User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.	The voice message containing the step to go from beacon 2 to 3 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 3 and the voice message has informed the user of it.	Pass
6	User navigates from beacon 3 to beacon 4.	A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4. User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.	The voice message containing the step to go from beacon 3 to 4 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 4 and the voice message has informed the user of it.	Pass

7	User navigates from beacon 4 to beacon 5.	A voice message will tell the user to walk straight from beacon 4 to beacon 5. User will reach beacon 5 successfully and the application will inform that he has reached the destination.	The voice message containing the step to go from beacon 4 to 5 was read out while also guiding the user to walk in the correct direction. The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.	Pass