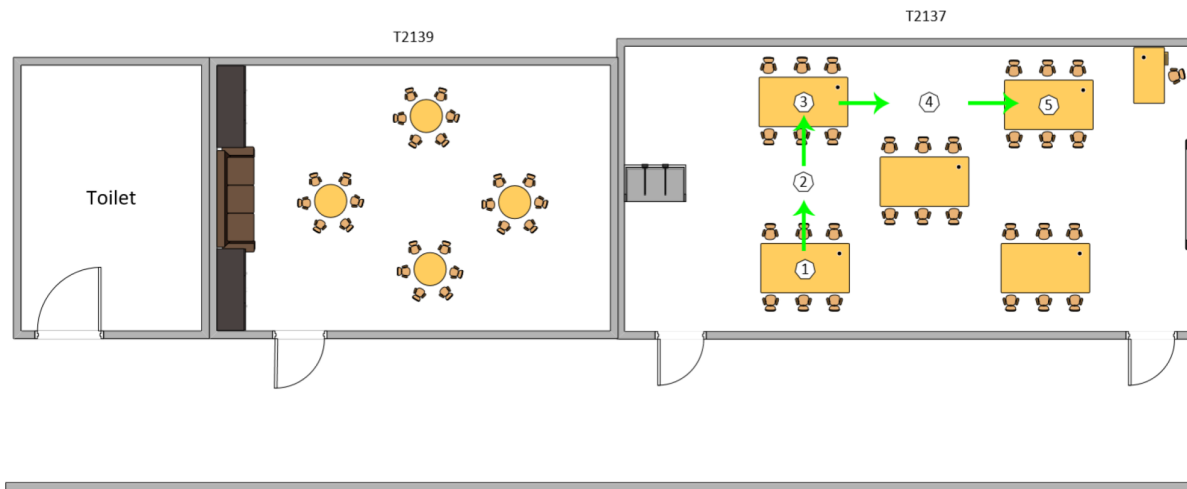


Test Case 14



Route used for test case 14

Test Execution Date: 24/7/2018

Test Duration: 0 minute 43 seconds

Pre-Conditions:

User is not blindfolded.

Specifications:

Beacon Distance: **3 meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+/- 10**

Avg Moving Speed: **42 cm/s**

Description:

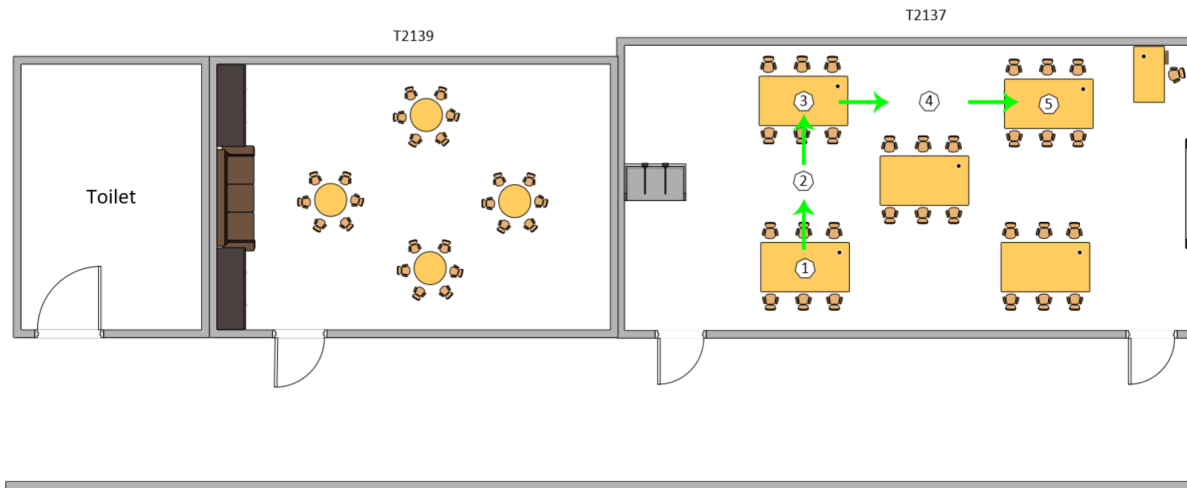
Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is also a desk in T2137.

The user will be skipping a beacon and going straight to the destination.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it.</p>	Pass
6	User navigates from beacon 3 to beacon 5, skipping beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>User will skip beacon 4 and walk straight all the way to beacon 5.</p> <p>The application will inform that he has reached his destination which is beacon 5.</p>	<p>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.</p> <p>The user walked past beacon 4 and reached beacon 5 without the application detecting that the user is already at beacon 5. This caused the user to continue walking straight, past beacon 5.</p>	Fail

Test Case 15

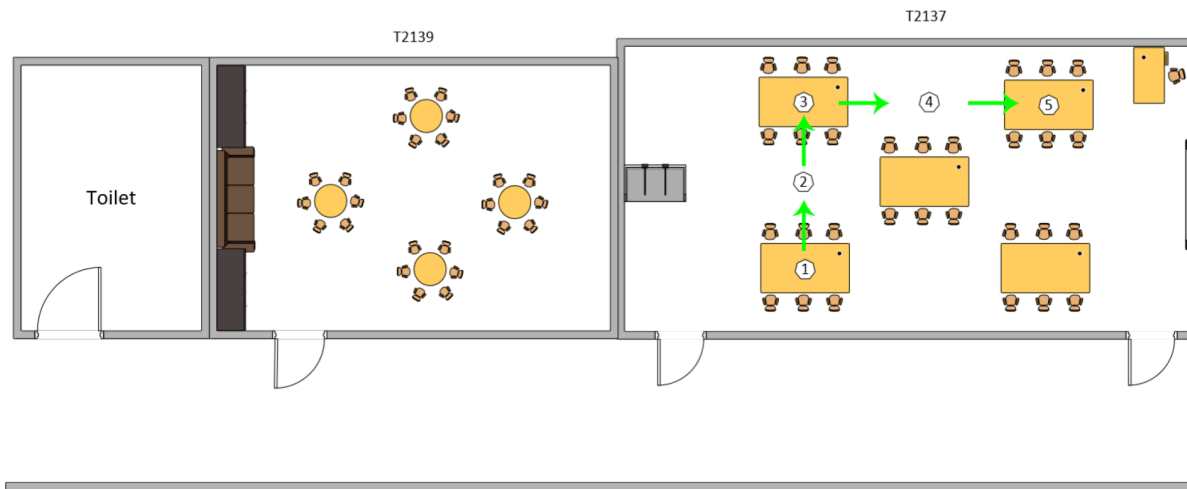


Route used for test case 15

Test Execution Date: 24/7/2018				
Test Duration: 0 minute 48 seconds				
Pre-Conditions: User is not blindfolded.				
Specifications: Beacon Distance: 3 meters Distance between beacon & ground: 0cm Compass Bearing: + - 10 Avg Moving Speed: 44 cm/s				
Description: Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is also a desk in T2137. The user will be skipping a beacon and going straight to the destination.				
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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it.</p>	Pass
6	User navigates from beacon 3 to beacon 5, skipping beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>User will skip beacon 4 and walk straight all the way to beacon 5.</p> <p>The application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>The user walked past beacon 4 and reached beacon 5 without the application detecting that the user is already at beacon 5. Causing the user to continue walking straight, past beacon 5.</p>	Fail

Test Case 16



Route used for test case 16

Test Execution Date: 24/7/2018

Test Duration: 1 minute 47seconds

Pre-Conditions:

User is not blindfolded.

Specifications:

Beacon Distance: **3 meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 10**

Avg Moving Speed: **24 cm/s**

Description:

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

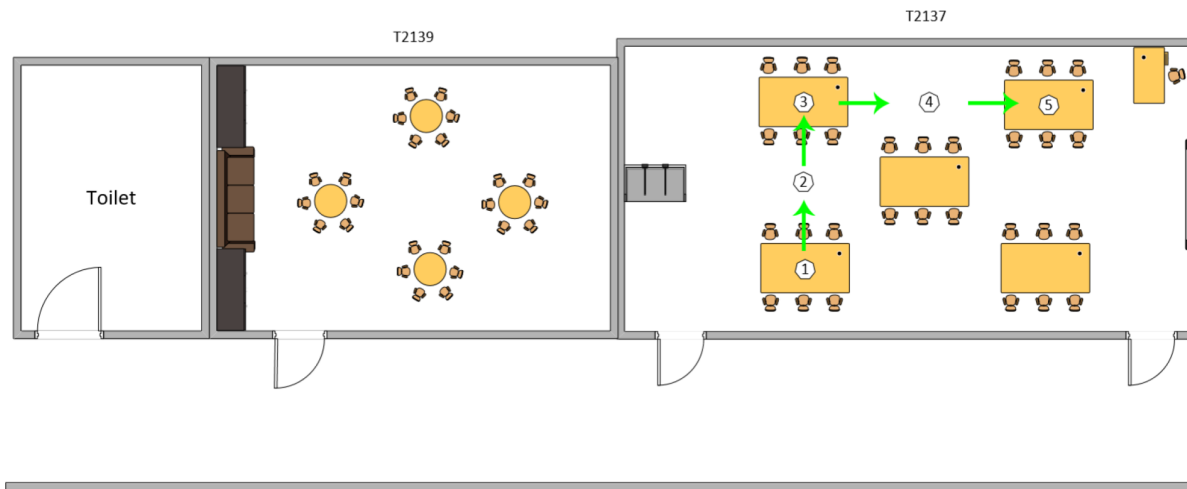
Testing if messages read out by application in sync with what is being displayed on the app.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed on the application.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. Multiple messages were being queued to be read out.</p> <p>User reached beacon 2 successfully after a confusing series of voice messages.</p>	Fail
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. Multiple messages were being queued to be read out.</p> <p>User reached beacon 3 successfully after a confusing series of voice messages.</p>	Fail

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. Multiple messages were being queued to be read out.</p> <p>User reached beacon 4 successfully after a confusing series of voice messages.</p>	Fail
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. Multiple messages were being queued to be read out.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination after a confusing series of voice messages.</p>	Fail

Test Case 17



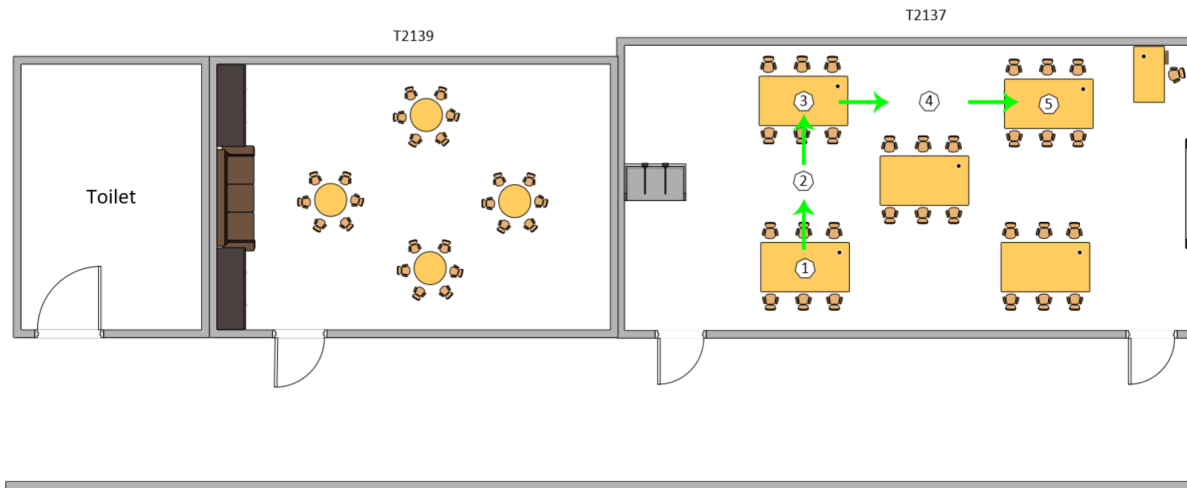
Route used for test case 17

Test Execution Date: 24/7/2018				
Test Duration: 1 minute 29seconds				
Pre-Conditions: User is not blindfolded.				
Specifications: Beacon Distance: 3 meters Distance between beacon & ground: 0cm Compass Bearing: + - 15 Avg Moving Speed: 37 cm/s				
Description: Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is a desk in T2137 as well. Testing if messages read out by application in sync with what is being displayed on the app.				
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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed on the application.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. A few messages were still being queued to be read out.</p> <p>User reached beacon 2 successfully after a confusing series of voice messages.</p>	Fail
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. A few messages were still being queued to be read out.</p> <p>User reached beacon 3 successfully after a confusing series of voice messages.</p>	Fail

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. Some messages were being queued to be read out.</p> <p>User reached beacon 4 successfully after a confusing series of voice messages.</p>	Fail
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. A few messages were still being queued to be read out.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination after a confusing series of voice messages.</p>	Fail

Test Case 18



Route used for test case 18

Test Execution Date: 24/7/2018

Test Duration: 1 minute 47seconds

Pre-Conditions:

User is not blindfolded.

User to stop every 2 steps and listen for the voice message instruction.

Specifications:

Beacon Distance: **3 meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 10**

Avg Moving Speed: **24 cm/s**

Description:

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

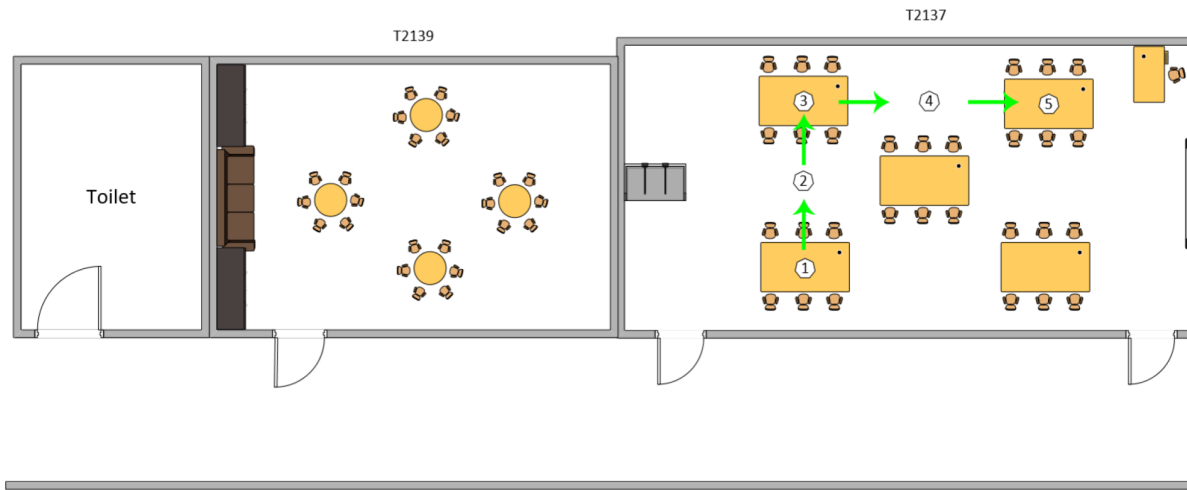
Testing if messages read out by application in sync with what is being displayed on the app.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>However, the voice message informing the user that he has reached beacon 2 was read out earlier than expected.</p>	Fail
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>However, the voice message informing the user that he has reached beacon 3 was read out earlier than expected.</p>	Fail

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>However, it was not in sync with the instructions that was being displayed on the screen. Multiple messages were being queued to be read out.</p> <p>In addition, the voice message informing the user that he has reached beacon 4 was read out earlier than expected.</p>	Fail
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.</p>	Pass

Test Case 19



Route used for test case 19

Test Execution Date: 20/7/2018

Test Duration: 1 minute 42 seconds

Pre-Conditions:

User is not blindfolded.

User to stop every 2 steps and listen for the voice message instruction.

Specifications:

Beacon Distance: **3 meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 15**

Avg Moving Speed: **22 cm/s**

Description:

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

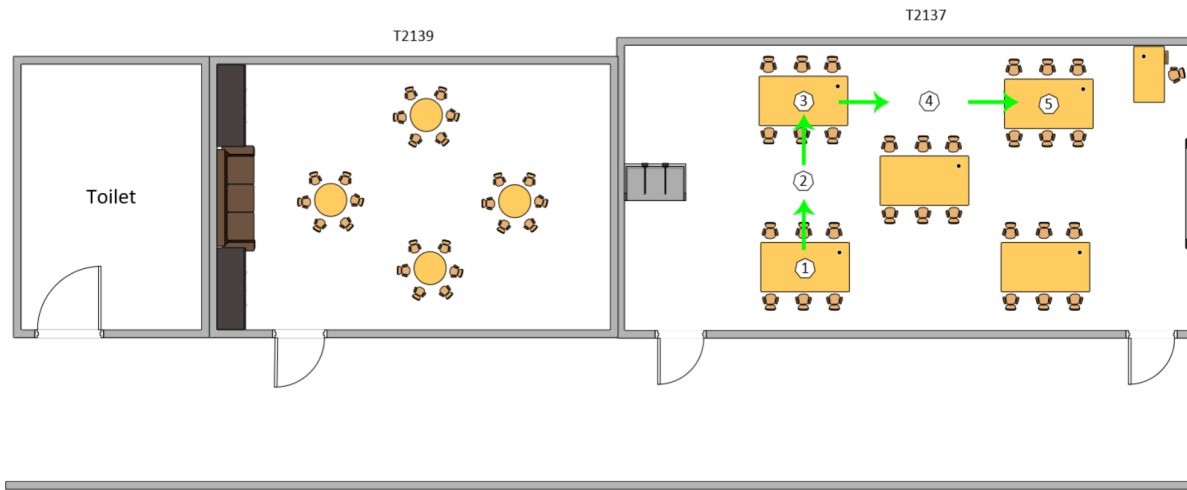
Testing if messages read out by application in sync with what is being displayed on the app.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	<p>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.</p>	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 20



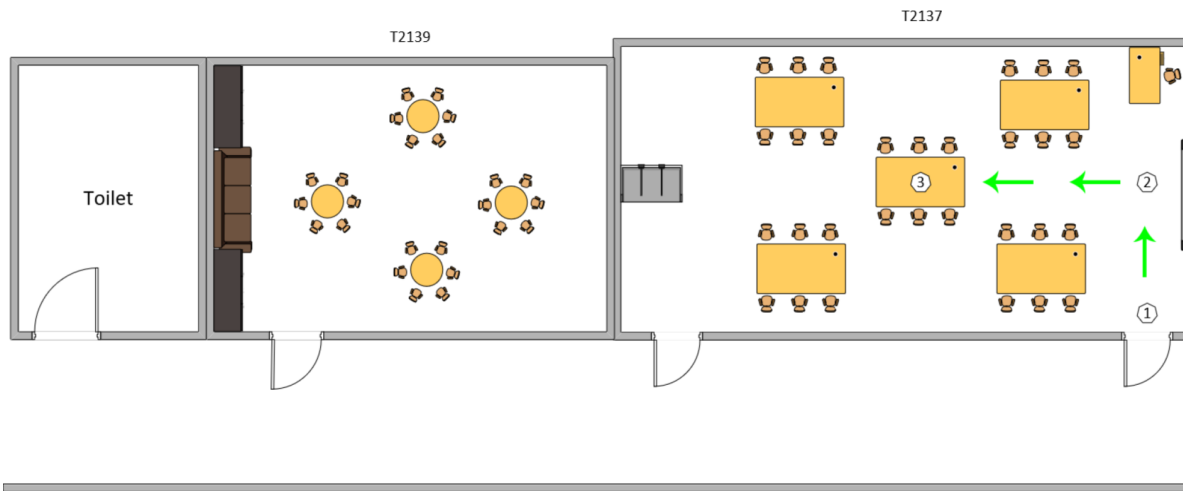
Route used for test case 20

Test Execution Date: 20/7/2018				
Test Duration: 1 minute 44 seconds				
Pre-Conditions: User is not blindfolded. User to stop every 2 steps and listen for the voice message instruction.				
Specifications: Beacon Distance: 3 meters Distance between beacon & ground: 0cm Compass Bearing: +- 15 Avg Moving Speed: 27 cm/s				
Description: Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is a desk in T2137 as well. Testing if messages read out by application in sync with what is being displayed on the app. Repeat of test case 18 for consistency.				
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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	<p>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.</p>	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 21

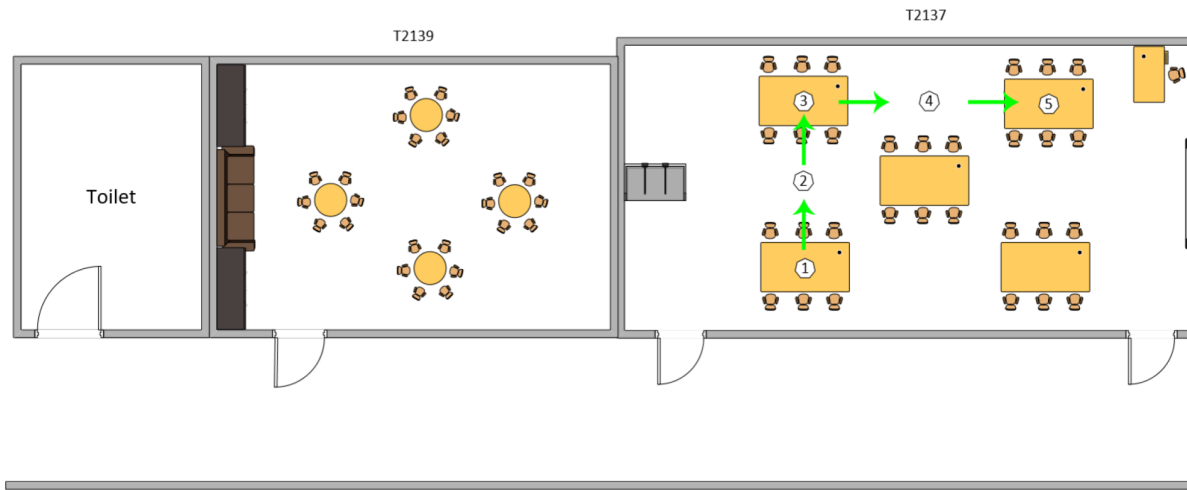


Route used for test case 21

Test Execution Date: 20/7/2018				
Test Duration: 1 minute 50 seconds				
Pre-Conditions: User is blindfolded.				
Specifications: Beacon Distance: 3 meters Distance between beacon & ground: 0cm Compass Bearing: +- 15 Moving Speed: 31cm/s				
Description: Navigation from beacon 1 which is the front entrance of T2137 to beacon 3 which is a desk in T2137.				
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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user that he has reached the destination.</p>	Pass

Test Case 22



Route used for test case 22

Test Execution Date: 20/7/2018

Test Duration: 1 minute 51 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Moving Speed: 27 cm/s

Description:

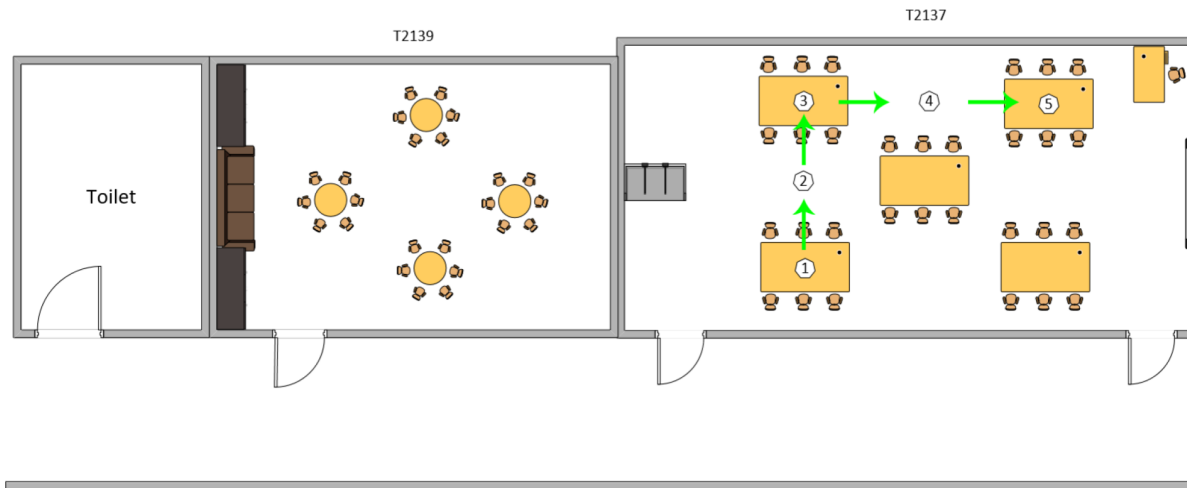
Navigation from beacon 1 which a desk in T2137 to beacon 5 which is a desk in T2137 as well.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	<p>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.</p>	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 23



Route used for test case 23

Test Execution Date: 20/7/2018

Test Duration: 1 minute 51 seconds

Pre-Conditions:

User is not blindfolded.

User to stop every 2 steps and listen for the voice message instruction.

Specifications:

Beacon Distance: 4 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Moving Speed: 25 cm/s

Description:

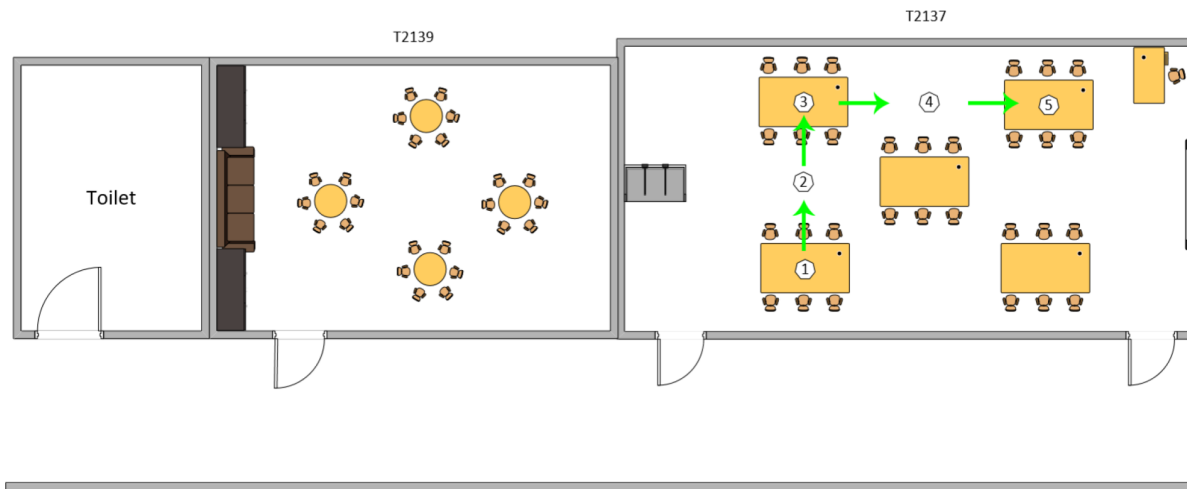
Navigation from beacon 1 which a desk in T2137 to beacon 5 which is a desk in T2137 as well.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>However, before the user reaches beacon 2, it detected that the user has reached beacon 2.</p>	Fail
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>However, before the user reaches beacon 3, it detected that the user has reached beacon 3.</p>	Fail

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>However, before the user reaches beacon 4, it detected that the user has reached beacon 4.</p>	Fail
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination.</p>	Pass

Test Case 24



Route used for test case 24

Test Execution Date: 25/7/2018

Test Duration: 1 minute 42 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 4 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Moving Speed: 33 cm/s

Description:

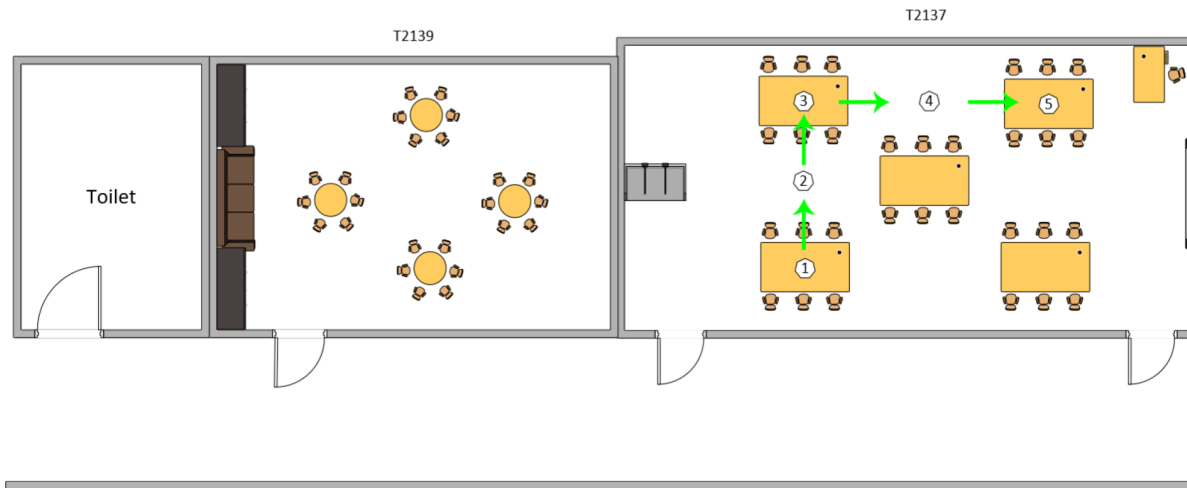
Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is a desk in T2137 as well.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>Before the user has reached beacon 3, it detected that the user is at beacon 3, causing the user to turn right pre-maturely</p>	Fail

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 25



Route used for test case 25

Test Execution Date: 25/7/2018

Test Duration: 1 minute 45 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 4 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Avg Moving Speed: 31 cm/s

Description:

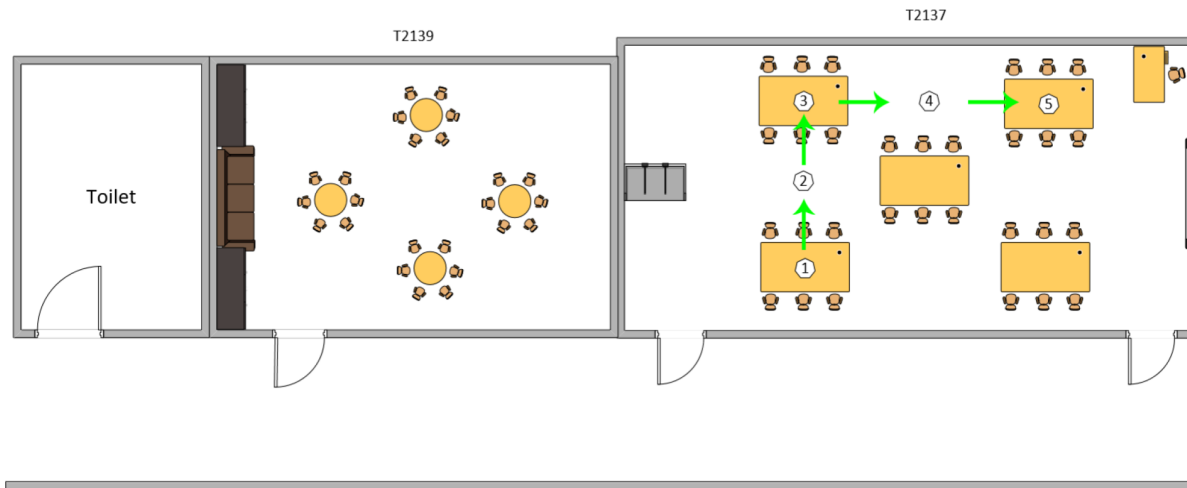
Navigation from beacon 1 which a desk in T2137 to beacon 5 which is a desk in T2137 as well.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>Before the user has reached beacon 3, it detected that the user is at beacon 3.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 26



Route used for test case 26

Test Execution Date: 25/7/2018

Test Duration: 1 minute 45 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 4 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Avg Moving Speed: 31 cm/s

Description:

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

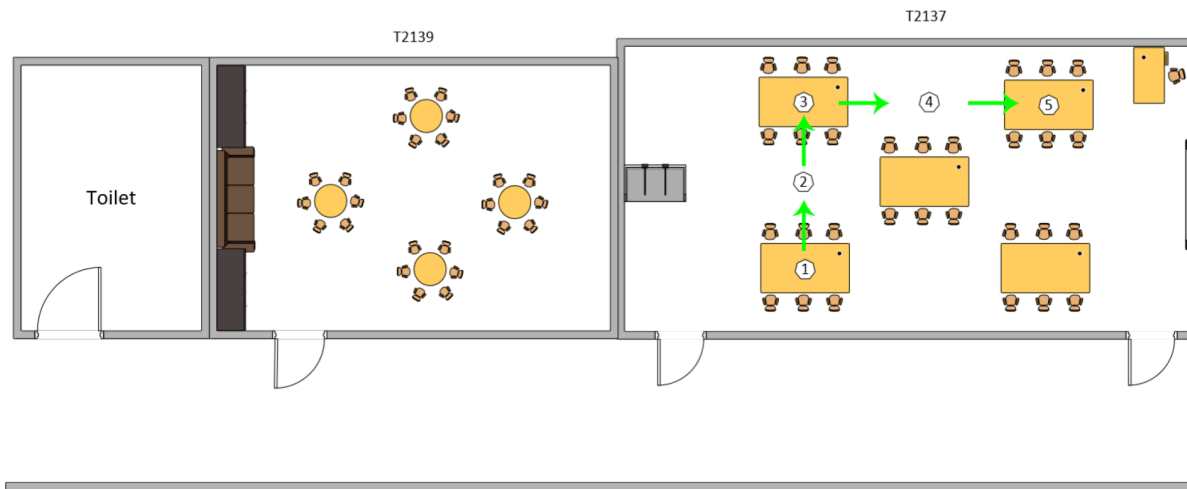
Repeat of test case 24 for consistency

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>Before the user has reached beacon 2, it detected that the user is at beacon 2.</p>	Fail
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 27



Route used for test case 27

Test Execution Date: 25/7/2018

Test Duration: 1 minute 45 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Avg Moving Speed: 30 cm/s

Description:

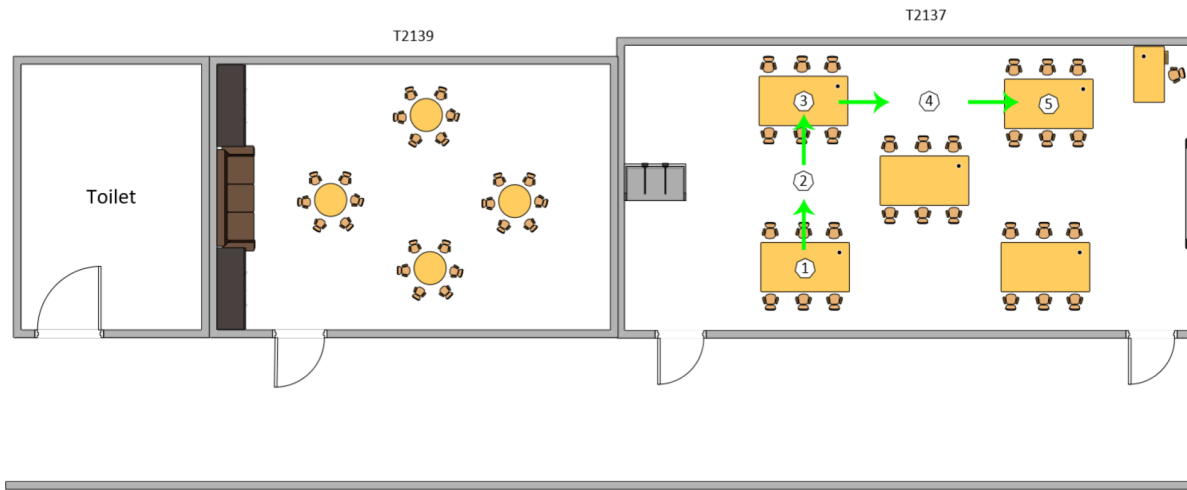
Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is a desk in T2137 as well.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	<p>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.</p>	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 but the voice message did not inform the user that he has reached the destination, causing the user to continue walking straight.</p>	Fail

Test Case 28



Route used for test case 28

Test Execution Date: 25/7/2018

Test Duration: 1 minute 45 seconds

Pre-Conditions:

User is not blindfolded.
User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 meters
Distance between beacon & ground: 0cm
Compass Bearing: +- 20
Avg Moving Speed: 30 cm/s

Description:

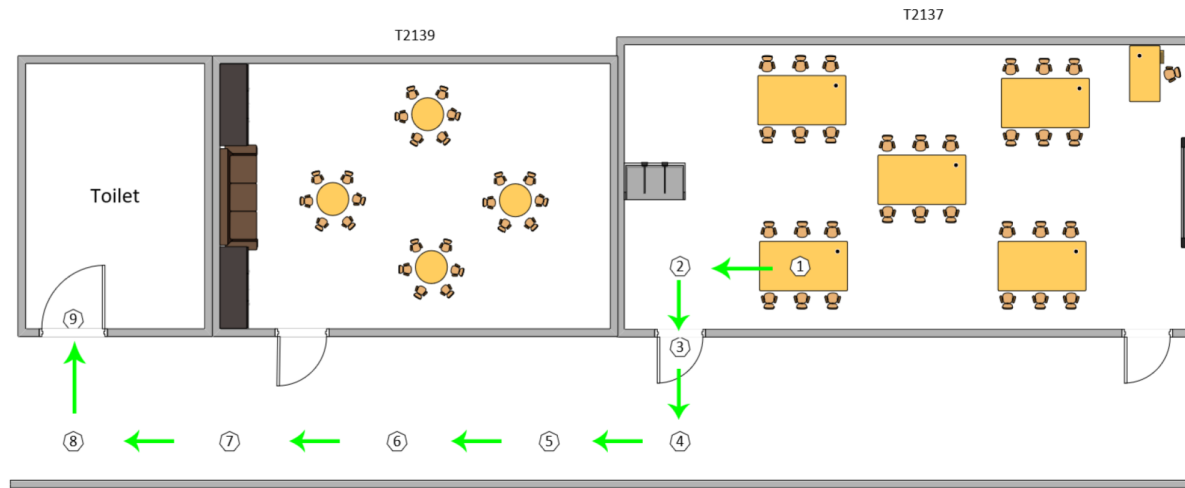
Navigation from beacon 1 which is a desk in T2137 to beacon 5 which is a desk in T2137 as well.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	<p>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.</p>	Pass
4	User starts from beacon 1 and wants to navigate to beacon 2.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>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.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to turn right and walk straight from beacon 3 to beacon 4.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>Before the user started moving from beacon 3 to beacon 4, it detected that the user has already reached beacon 4.</p>	Fail
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached the destination.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 29



Route used for test case 29

Test Execution Date: 25/7/2018

Test Duration: 3 minute 7 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 20**

Avg Moving Speed: 25 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

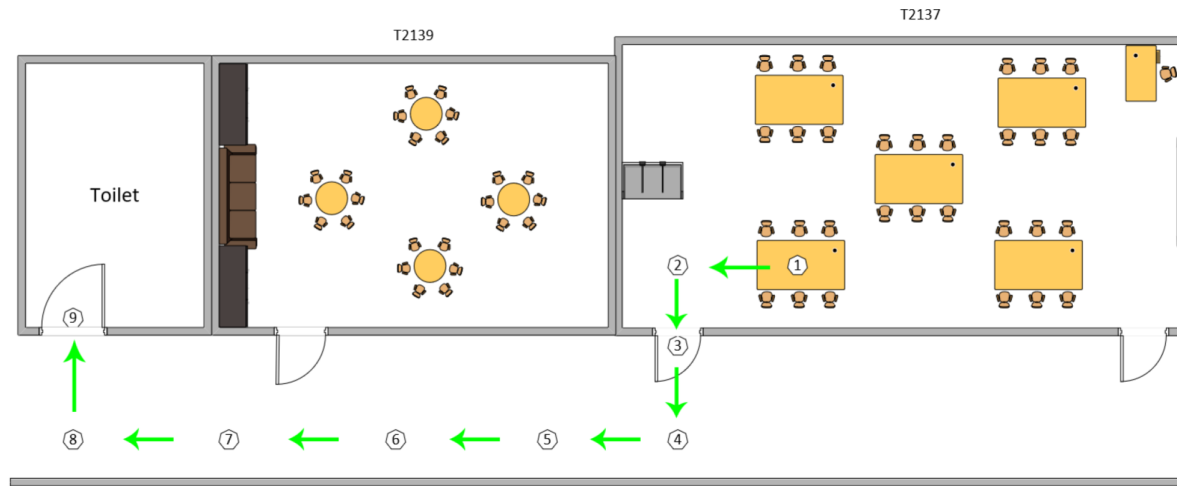
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>Before the user has reached beacon 7, it detected that the user has already reached beacon 7.</p>	Fail
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 but the application detected that the user has reached beacon 9, and informed the user that he has reached the destination.</p>	Fail
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 30



Route used for test case 30

Test Execution Date: 25/7/2018

Test Duration: 1 minute 45 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 20**

Avg Moving Speed: 25 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

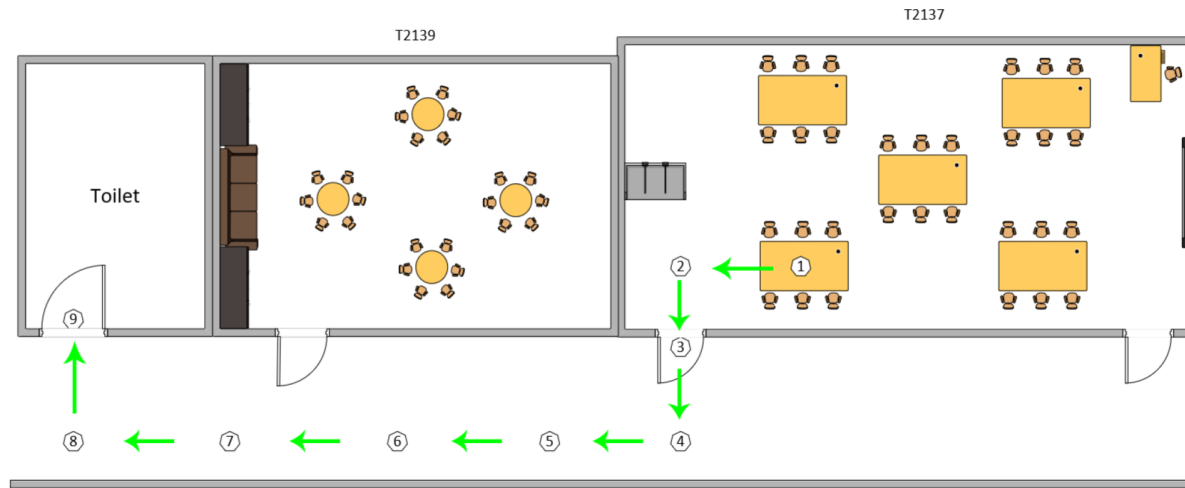
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 but the application detected that the user has reached beacon 9, and informed the user that he has reached the destination.</p>	Fail
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 31



Route used for test case 31

Test Execution Date: 25/7/2018

Test Duration: 2 minute 55 seconds

Pre-Conditions:

User is not blindfolded.
User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**
Distance between beacon & ground: **0cm**
Compass Bearing: **+ - 20**
Avg Moving Speed: 29 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

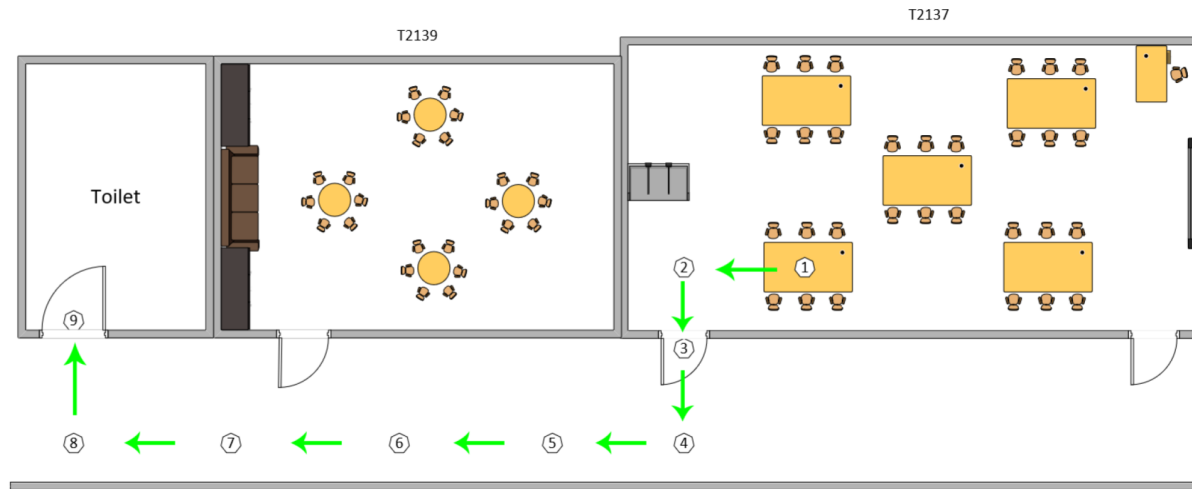
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 and the voice message has informed the user of it promptly.</p>	Pass
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 32



Route used for test case 32

Test Execution Date: 25/7/2018

Test Duration: 2 minute 47 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 20**

Avg Moving Speed: 28 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

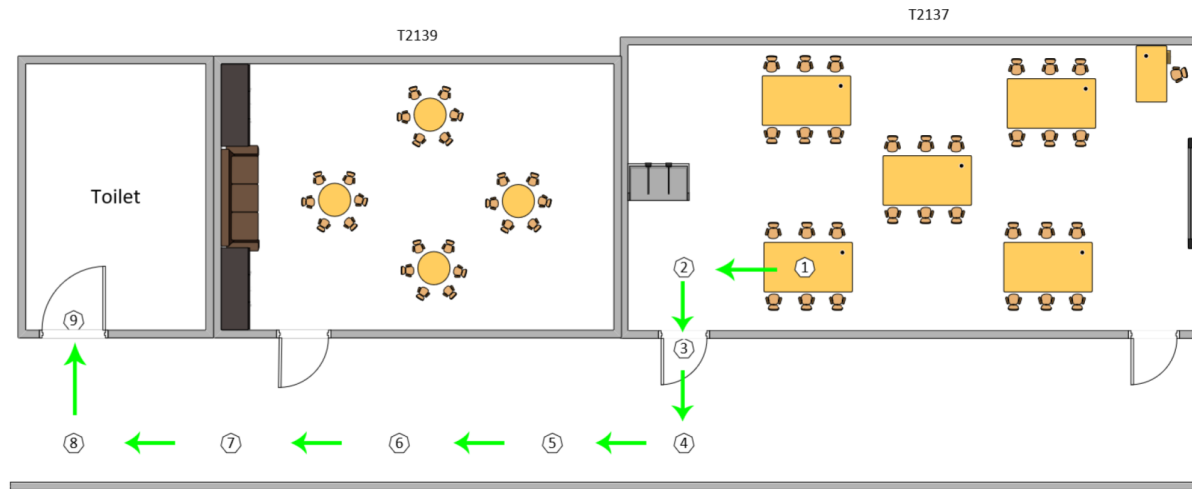
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 and the voice message has informed the user of it promptly.</p>	Pass
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 33



Route used for test case 33

Test Execution Date: 25/7/2018

Test Duration: 2 minute 47 seconds

Pre-Conditions:

User is not blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 20**

Avg Moving Speed: 28 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

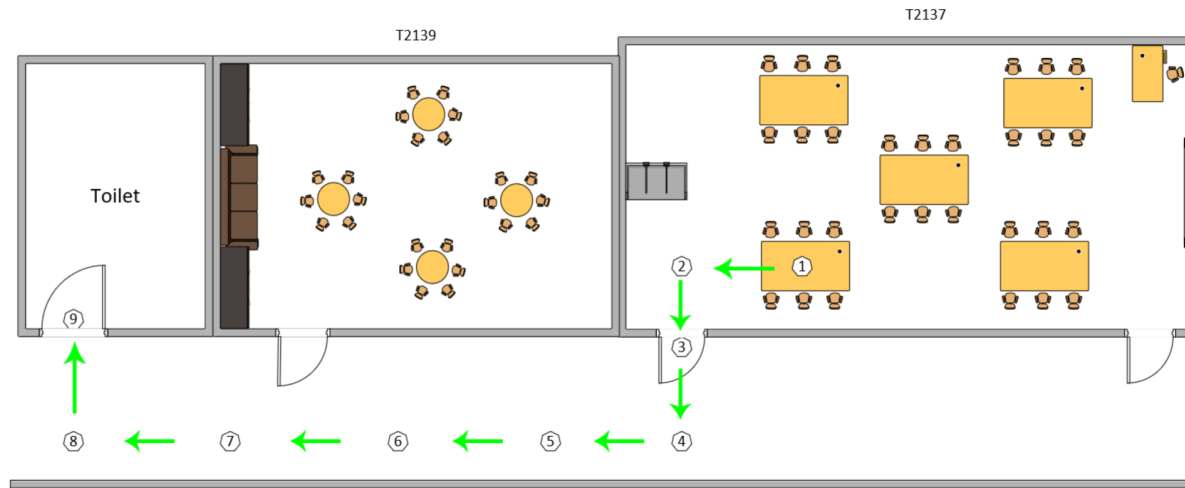
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 but the application detected that the user has reached beacon 9, and informed the user that he has reached the destination.</p>	Fail
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 34



Route used for test case 34

Test Execution Date: 25/7/2018

Test Duration: 4 minutes 22 seconds

Pre-Conditions:

User is blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 20**

Avg Moving Speed: 28 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

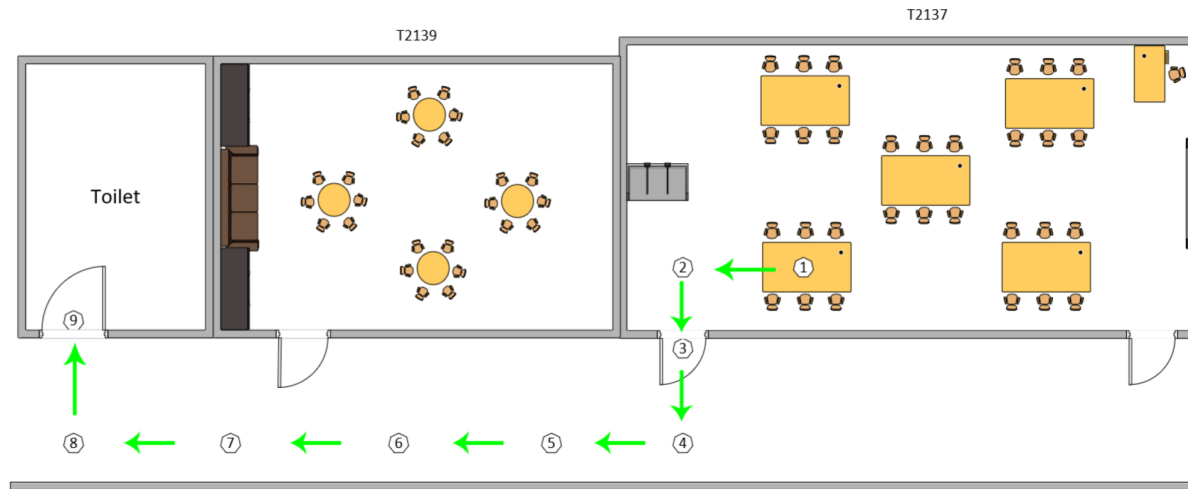
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 and the voice message has informed the user of it promptly.</p>	Pass
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 35



Route used for test case 35

Test Execution Date: 25/7/2018

Test Duration: 4 minutes 22 seconds

Pre-Conditions:

User is blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 **meters**

Distance between beacon & ground: **0cm**

Compass Bearing: **+ - 20**

Avg Moving Speed: 28 **cm/s**

note: distance between beacon 8 & 9 is 1.85m

Description:

Navigation from beacon 1 which a desk in T2137 to beacon 9 which is the toilet.

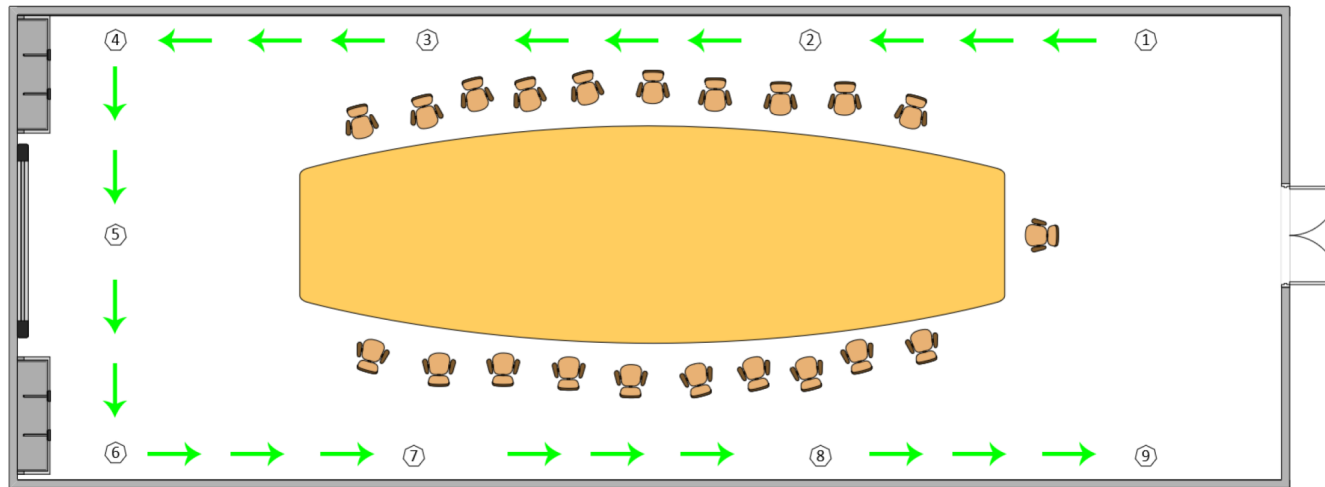
Steps	Test Steps	Expected Results	Actual Results	Status (Pass/Fail)
1	User to launch the application.	The application will be launched successfully.	The application has been launched successfully.	Pass

2	Detect current location automatically as Beacon 1.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2 and also inform the user that beacon 3 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to turn left and walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn right and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to beacon 6.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to 8 and also inform the user that beacon 8 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 and the voice message has informed the user of it promptly.</p>	Pass
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to turn right and walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass

Test Case 36



Route used for test case 36

Test Execution Date: 26/7/2018

Test Duration: 4 minutes 22 seconds

Pre-Conditions:

User is blindfolded.

User to wait for instructions to be read finished before moving again.

Specifications:

Beacon Distance: 3 meters

Distance between beacon & ground: 0cm

Compass Bearing: +- 20

Avg Moving Speed: 28 cm/s

Description:

Navigation from beacon 1 to beacon 9.

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.	<p>A voice message will inform the user of his/her current location to be Beacon 1 automatically.</p> <p>The destination will also be prompted.</p>	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 9	<p>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.</p> <p>If the user is not facing the correct direction, the voice message will guide the user to the correct position.</p>	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.	<p>A voice message will tell the user to walk straight from beacon 1 to 2.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will then reach beacon 2 successfully and the application will inform that he has reached beacon 2.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 2 and the voice message has informed the user of it promptly.</p>	Pass
5	User navigates from beacon 2 to beacon 3.	<p>A voice message will tell the user to walk straight from beacon 2 to beacon 3.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 3 successfully and the application will inform that he has reached beacon 3.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 3 and the voice message has informed the user of it promptly.</p>	Pass

6	User navigates from beacon 3 to beacon 4.	<p>A voice message will tell the user to walk straight from beacon 3 to 4 and also inform the user that beacon 4 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 4 successfully and the application will inform that he has reached beacon 4.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 4 and the voice message has informed the user of it promptly.</p>	Pass
7	User navigates from beacon 4 to beacon 5.	<p>A voice message will tell the user to turn left and walk straight from beacon 4 to beacon 5.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 5 successfully and the application will inform that he has reached beacon 5.</p>	<p>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.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 5 and the voice message has informed the user of it promptly.</p>	Pass
8	User navigates from beacon 5 to beacon 6.	<p>A voice message will tell the user to walk straight from beacon 5 to 6 and also inform the user that beacon 6 is a turning point.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 6 successfully and the application will inform that he has reached beacon 6.</p>	<p>The voice message containing the step to go from beacon 5 to 6 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 6 and the voice message has informed the user of it promptly.</p>	Pass

9	User navigates from beacon 6 to beacon 7.	<p>A voice message will tell the user to turn left and walk straight from beacon 6 to beacon 7.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 7 successfully and the application will inform that he has reached beacon 7.</p>	<p>The voice message containing the step to go from beacon 6 to 7 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 7 and the voice message has informed the user of it promptly.</p>	Pass
10	User navigates from beacon 7 to beacon 8.	<p>A voice message will tell the user to walk straight from beacon 7 to beacon 8.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 8 successfully and the application will inform that he has reached beacon 8.</p>	<p>The voice message containing the step to go from beacon 7 to 8 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 8 and the voice message has informed the user of it promptly.</p>	Pass
11	User navigates from beacon 8 to beacon 9.	<p>A voice message will tell the user to walk straight from beacon 8 to beacon 9.</p> <p>The voice message guiding the user to face the correct direction should be in sync with the one being displayed.</p> <p>User will reach beacon 9 successfully and the application will inform that he has reached the destination.</p>	<p>The voice message containing the step to go from beacon 8 to 9 was read out while also guiding the user to walk in the correct direction.</p> <p>Message read out was in sync with the instructions that is displayed.</p> <p>The user has successfully reached beacon 9 and the voice message has informed the user that he has reached the destination promptly.</p>	Pass