Acceptance Test Suite (DEMO)

Table of Contents

Epic 1: Register page – User can register an account 3

Full-size Image 5

Epic 2: Login page – User can login by authenticating username and password 5

Full-size Image 7

Epic 3: Dashboard page – User can monitor indoor air quality index 8

Full-size Image 10

Epic 4: Dashboard page – User can see their location and timestamp when the sensor collects the data 11

Full-size Image 13

Epic 5: Dashboard page – User can see notifications about the current indoor AQI value 14

Full-size Image 15

Epic 6: Dashboard page – User can see red danger alert if an AQI value drops to a danger level (for showcase purpose) 16

Full-size Image 17

Epic 7: Dashboard page – The AQI value updates every one minute after a user search 18

Full-size Image 20

© RMIT UNIVERSITY 2020

Epic 8: Guide page – User can see the complete category of each index value range of each AQI type 21

Full-size Image 23

Epic 9: Analytics page – User can see a line chart of data of all AQI types past 2 hours at a 15-min interval 24

Full-size Image 26

Epic 10: Analytics page – User can see a line chart of data of all AQI types past 12 hours at a 15-min interval 27

Full-size Image 29

Epic 11: Analytics page – User can see a line chart of data of all AQI types past 1 day at a 15-min interval 30

Full-size Image 32

Epic 12: Analytics page – User can see a line chart of data of all AQI types past 1 day at a 5-min interval 33

Full-size Image 35

Epic 13: Analytics page – User can see a line chart of data of all AQI types past 1 day at 1-min interval 36

Full-size Image 38

Epic 14: Analytics page – User can toggle the legends of the chart 39

Full-size Image 42

Epic 15: Analytics page – User can toggle the legends of the chart 42

Full-size Image 45

Epic 16: Analytics page – User can export the chart image in PNG format **Error! Bookmark not defined.**

Full-size Image 48

Epic 17: Analytics page – User can export the chart data in csv format 49

Full-size Image 52

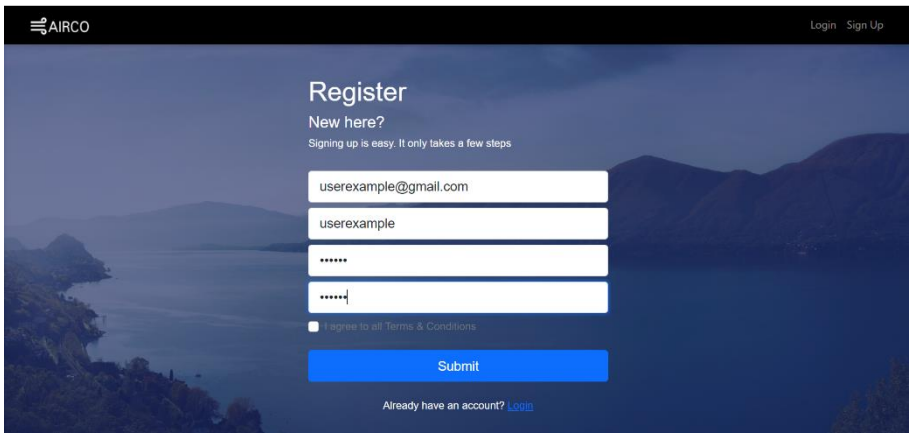
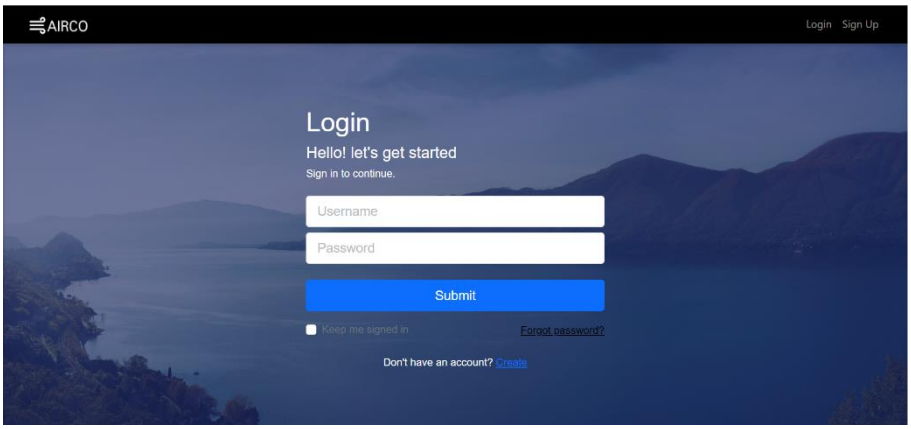
Epic 18: Analytics page – User can see the tooltip of each plot in the chart 53

Full-size Image 55

Epic 1

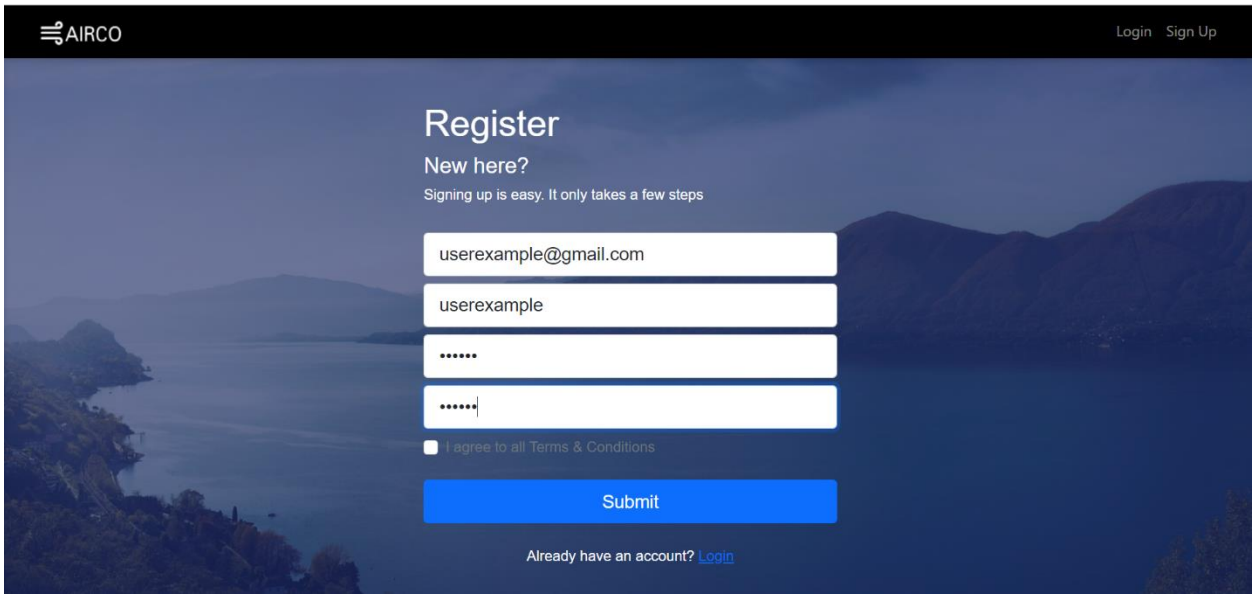
Register page – User can register an account

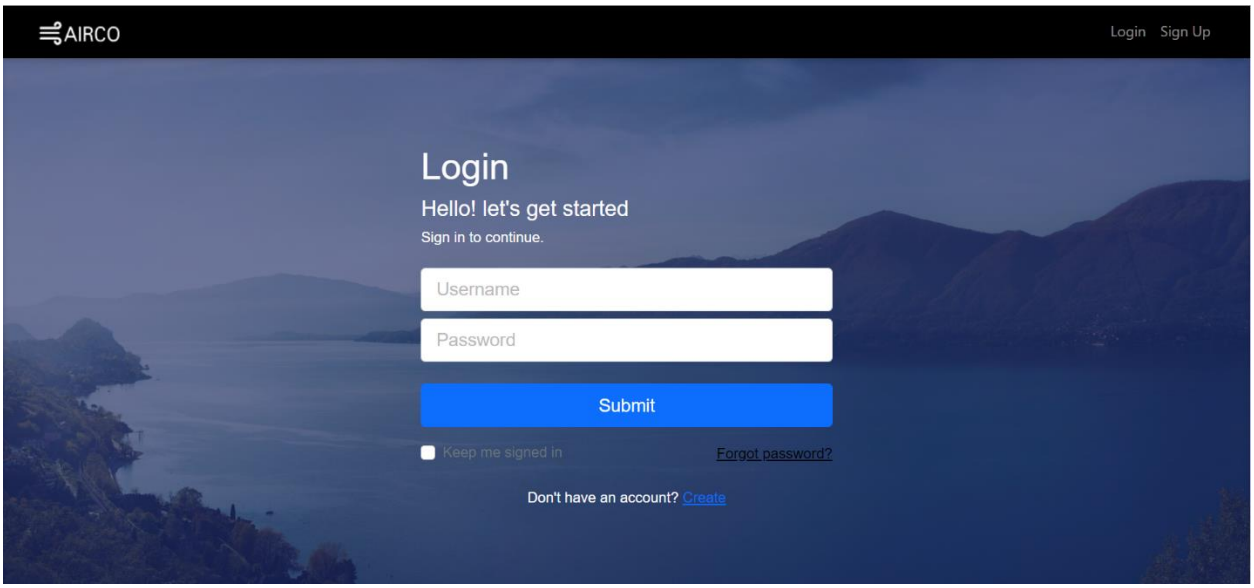
Test Category ID	1 – User management
Test Case ID	1
Test Case Summary	User can register an account
Related User Story	As a user, I want to register a new account so that I can login to my own account
Prerequisites	None
Test Procedure	1. Enter username (email) 2. Enter name 3. Enter password

	4. Enter confirm password 5. Press Submit button 
Test Data	Username: userexample@gmail.com Full name: userexample Password: 123456 Confirm Password: 123456
Expected Result	User are redirect to login page
Actual Result	
Status	Pass
Remarks	No remarks.

Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Full-size Image

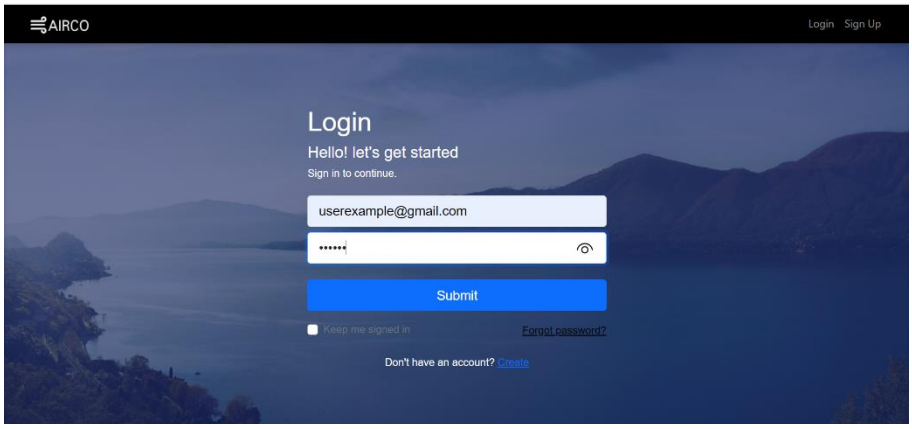
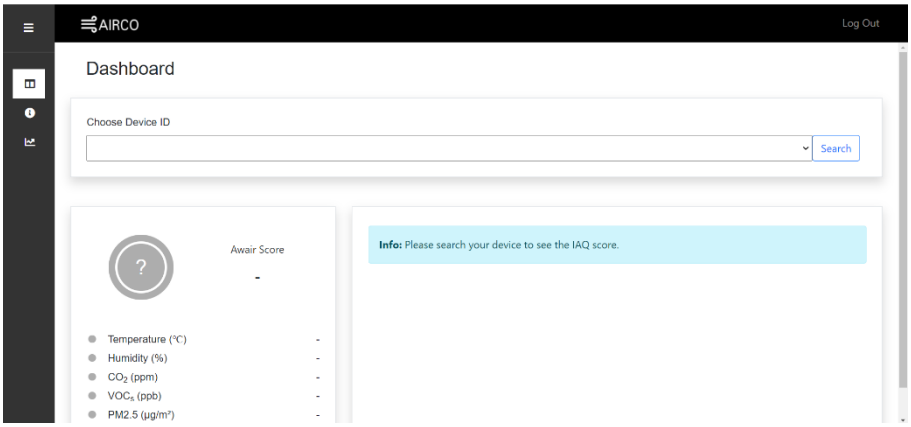




Epic 2

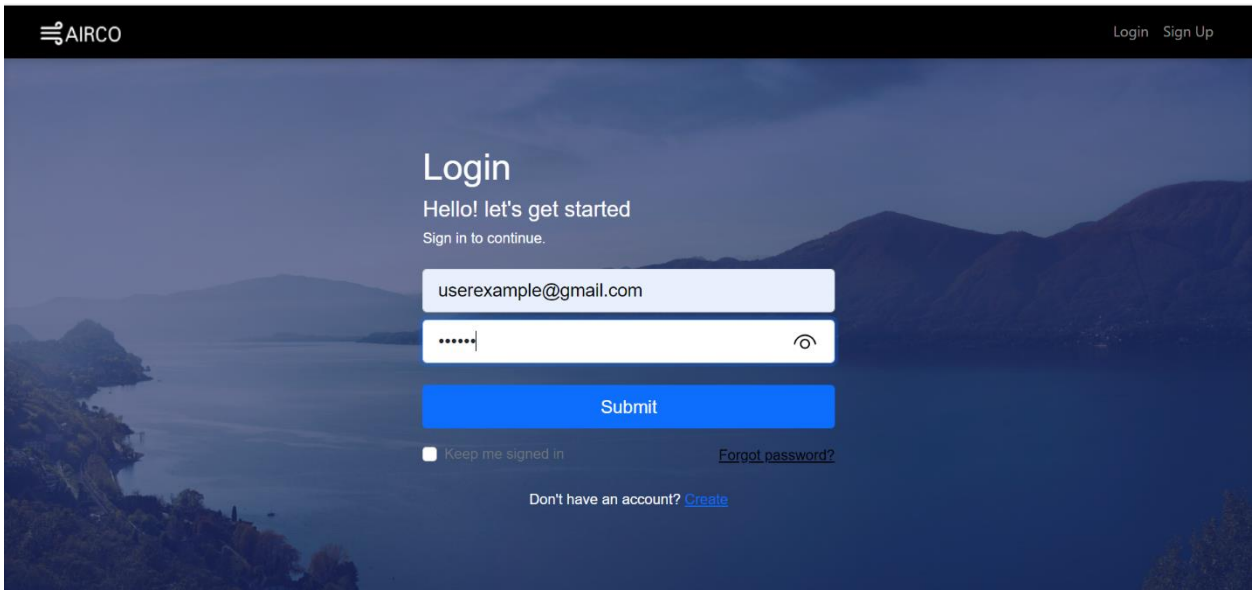
Login page – User can login by authenticating username and password

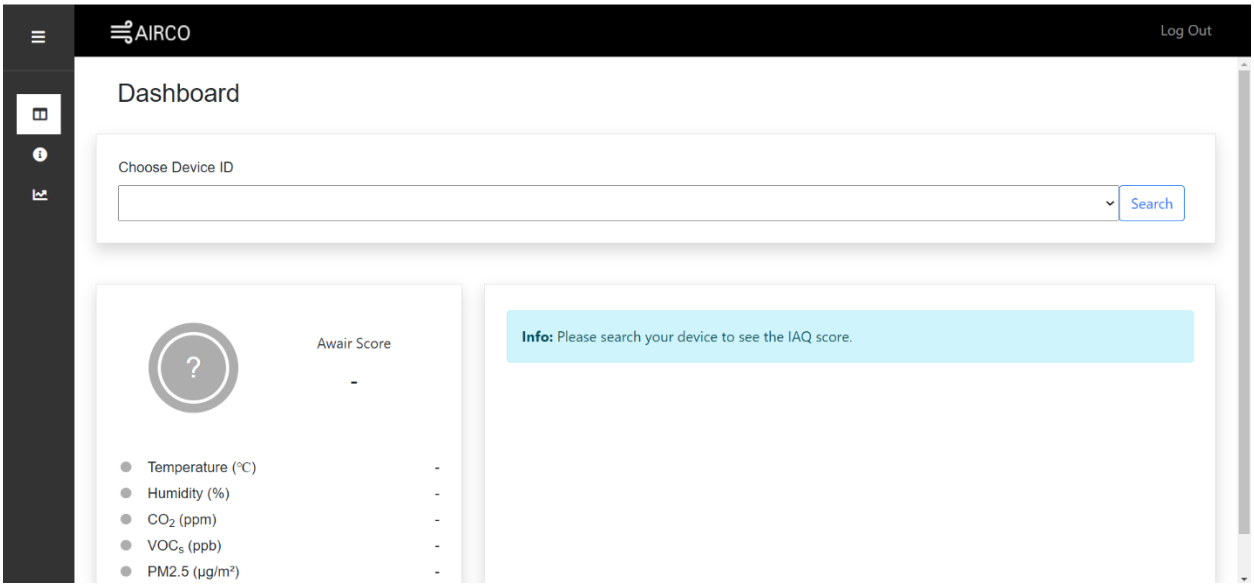
Test Category ID	1 – User management
Test Case ID	1
Test Case Summary	User can login by authenticating username and password
Related User Story	As a user, I want to login to my own account so that I can see my dashboard
Prerequisites	1. Register an account

Test Procedure	1. Enter username (email) 2. Enter password 3. Press Submit button 
Test Data	Username: userexample@gmail.com Password:v 123456
Expected Result	User are redirect to dashboard page
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)

Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Full-size Image

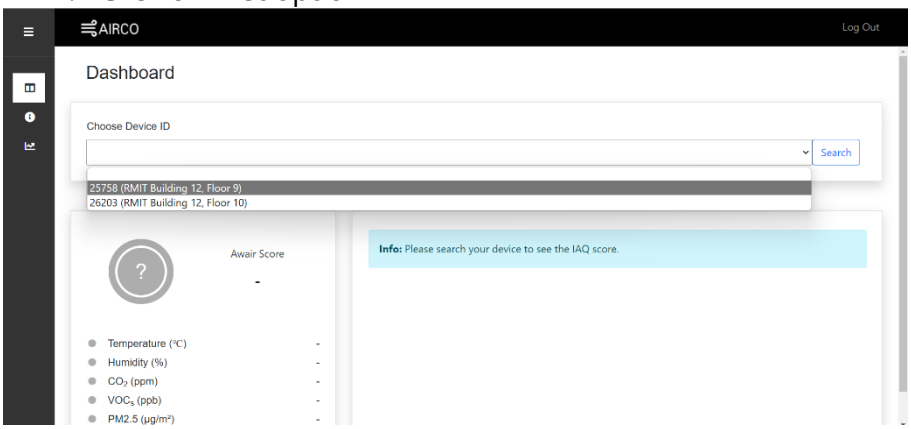
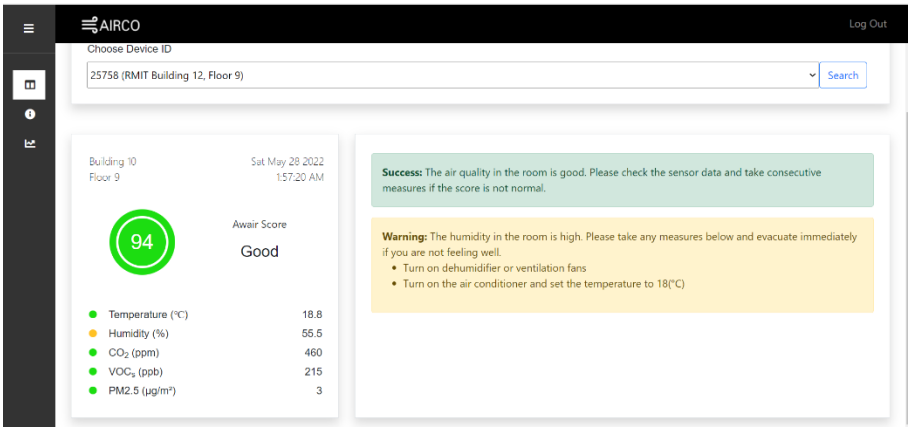




Epic 3

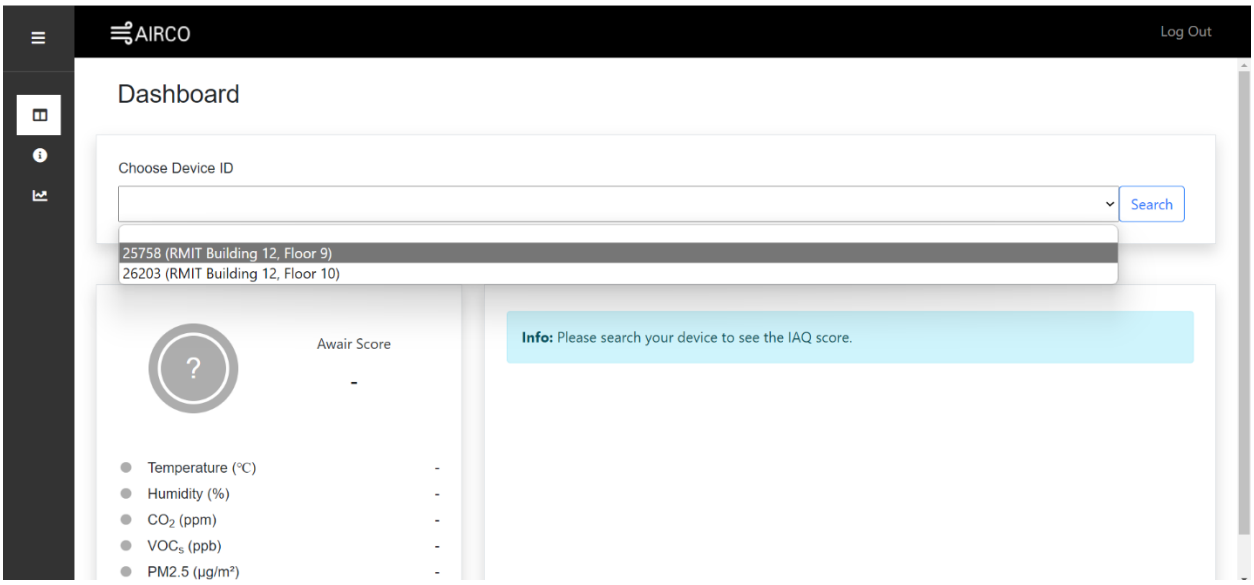
Dashboard page – User can monitor indoor air quality index

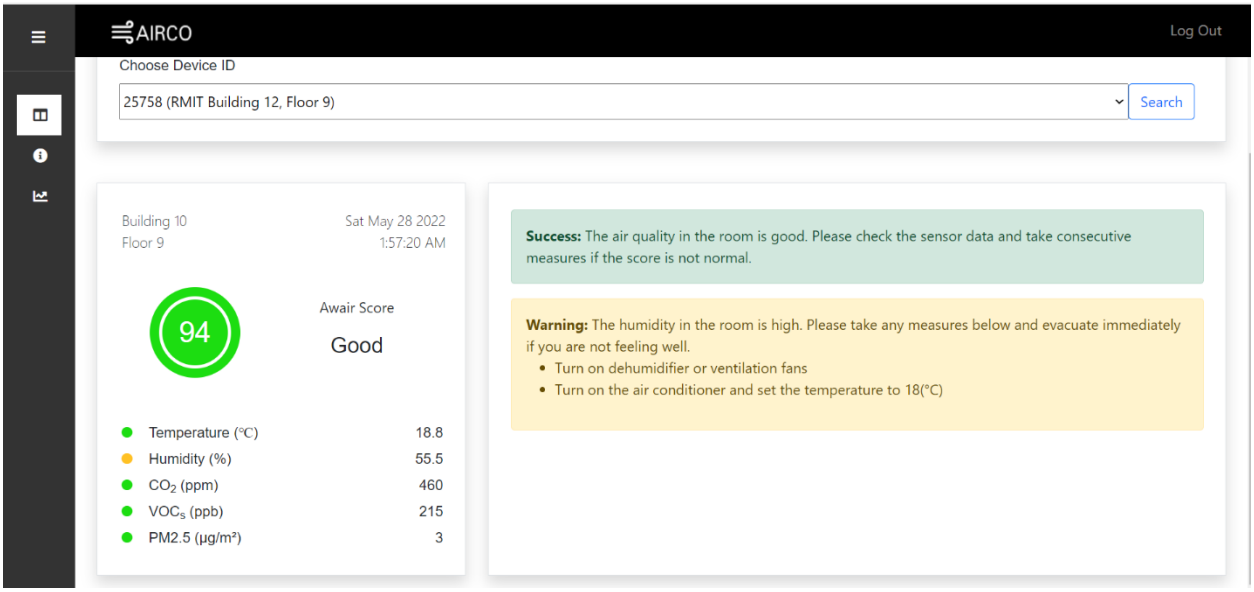
Test Category ID	2 – Index presentation
Test Case ID	3
Test Case Summary	User can monitor indoor air quality index
Related User Story	As a user, I want monitor indoor air quality index of my room so that I can check the air quality of the room I am in.
Prerequisites	1. Register an account 2. Login to your account

Test Procedure	1. Press on select toolbar 2. Click on first option  3. Press Search button
Test Data	Option: 25758 (RMIT Building 12, Floor 9)
Expected Result	User can see respective value of each air quality type and colors that indicate the condition of each air quality type. Categories of each air quality type can be seen in the data guide later.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)

Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Full-size Image

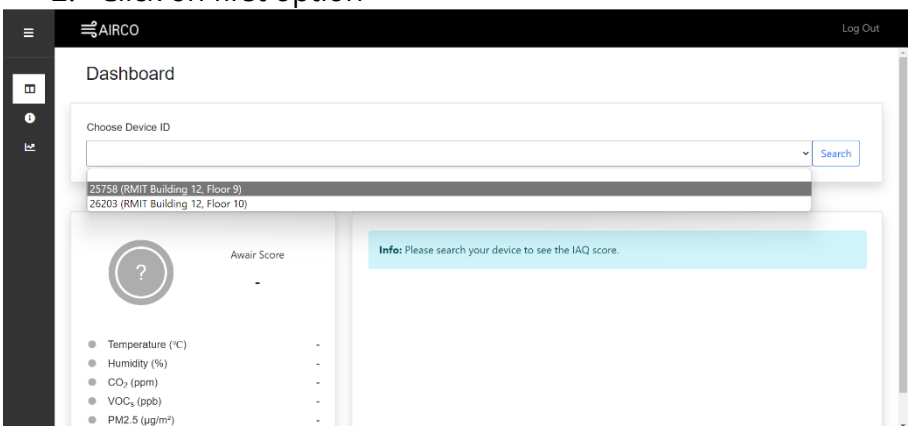
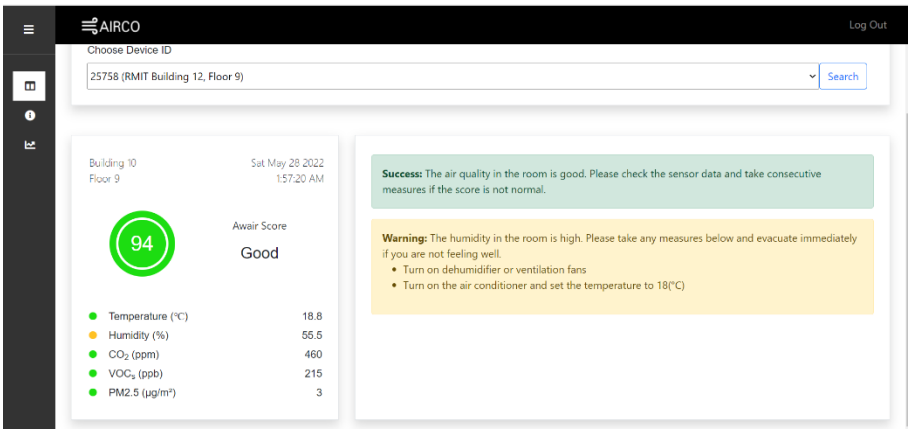




Epic 4

Dashboard page – User can see their location and timestamp when the sensor collects the data

Test Category ID	2 – Index presentation
Test Case ID	4
Test Case Summary	User can see their location and timestamp of the search button being pressed
Related User Story	As a user, I want to check my location and current time from the dashboard so that I can identify my current location and time easily from the dashboard.
Prerequisites	1. Register an account 2. Login to your account

	3. Choose your location
Test Procedure	1. Press on select toolbar 2. Click on first option  3. Press Search button
Test Data	Option: 25758 (RMIT Building 12, Floor 9)
Expected Result	User can see the location at the top left of the score and timestamp at the top right of the score
Actual Result	
Status	Pass

Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

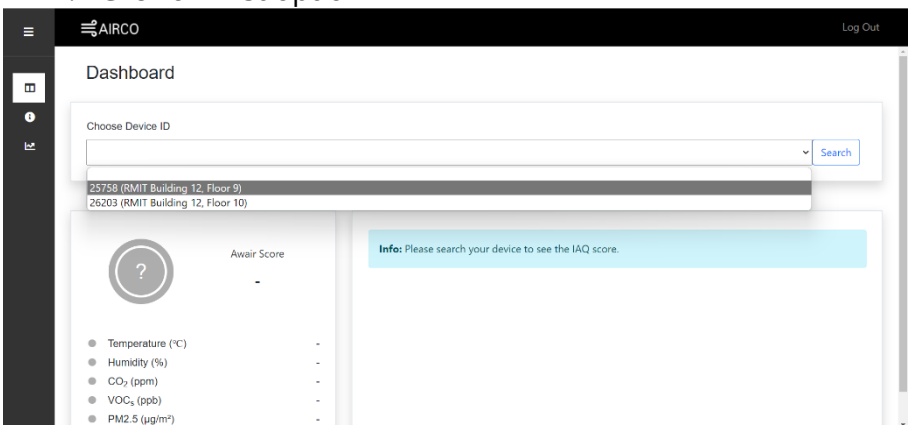
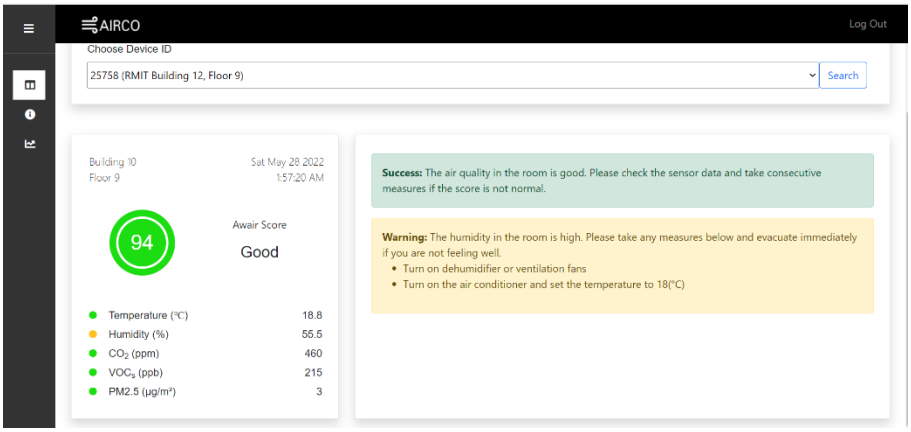
Full-size Image

Refer to previous test case

Epic 5

Dashboard page – User can see notifications about the current indoor AQI value

Test Category ID	2 – Index presentation
Test Case ID	5
Test Case Summary	User can see notifications about the current indoor AQI value

Related User Story	As a user, I want to see a notification about the current indoor AQI value so that I can have a brief idea of the current air quality conditions and measures to be taken whenever the condition is not good
Prerequisites	1. Register an account 2. Login to your account 3. Choose your location
Test Procedure	1. Press on select toolbar 2. Click on first option  3. Press Search button
Test Data	Option: 25758 (RMIT Building 12, Floor 9)
Expected Result	User can see a green success alert of awair score and yellow warning alert of humidity. Only awair score category will show a green success alert when the value is within the good range while others will not in order to keep the notification board simple.
Actual Result	

Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

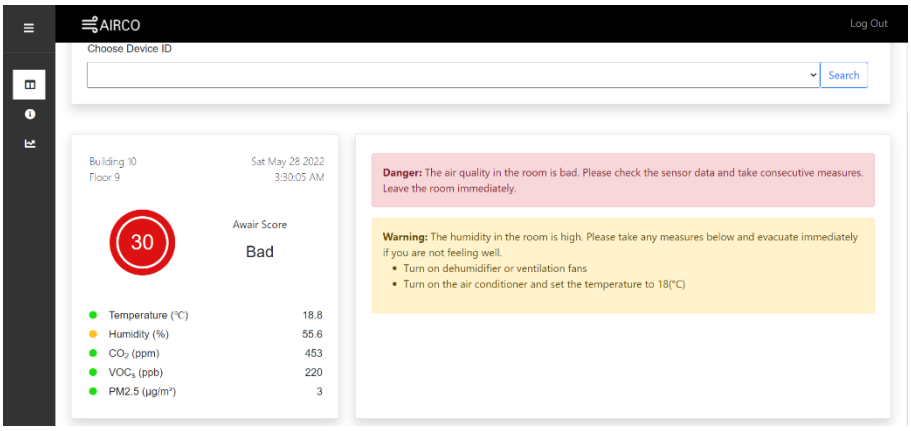
Full-size Image

Refer to previous test case

Epic 6

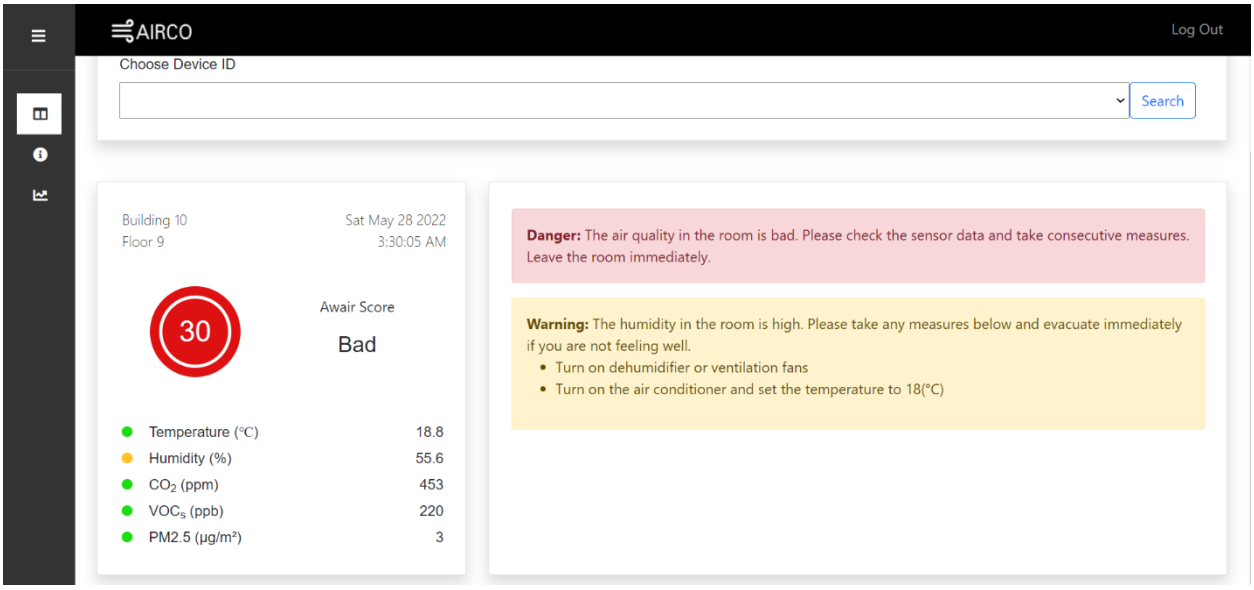
Dashboard page – User can see red danger alert if an AQI value drops to a danger level (for showcase purpose)

Test Category ID	2 – Index presentation

Test Case ID	6
Test Case Summary	User can see red danger alert if an AQI value drops to a danger level (for showcase purpose)
Related User Story	As a user, I want to see a notification about the current indoor AQI value so that I can have a brief idea of the current air quality conditions and measures to be taken whenever the condition is not good
Prerequisites	1. Register an account 2. Login to your account 3. Choose your location
Test Procedure	1. Press on select toolbar 2. Click on first option 3. Press Search button
Test Data	Option: 25758 (RMIT Building 12, Floor 9) Dummy data is input to showcase what is being displayed under extreme conditions
Expected Result	User can see a red circle and a red danger alert for awair score
Actual Result	
Status	Pass

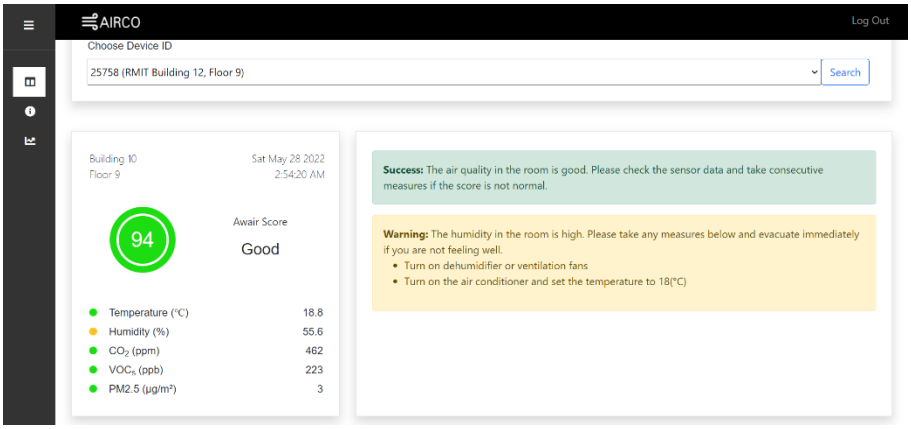
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

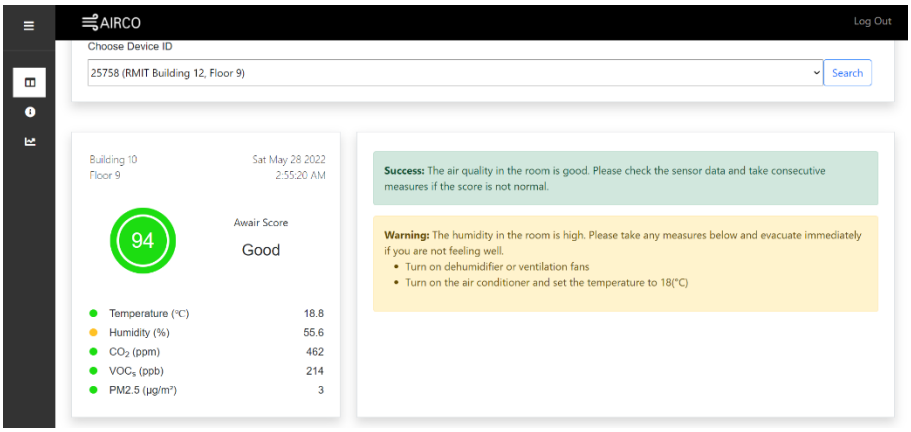
Full-size Image



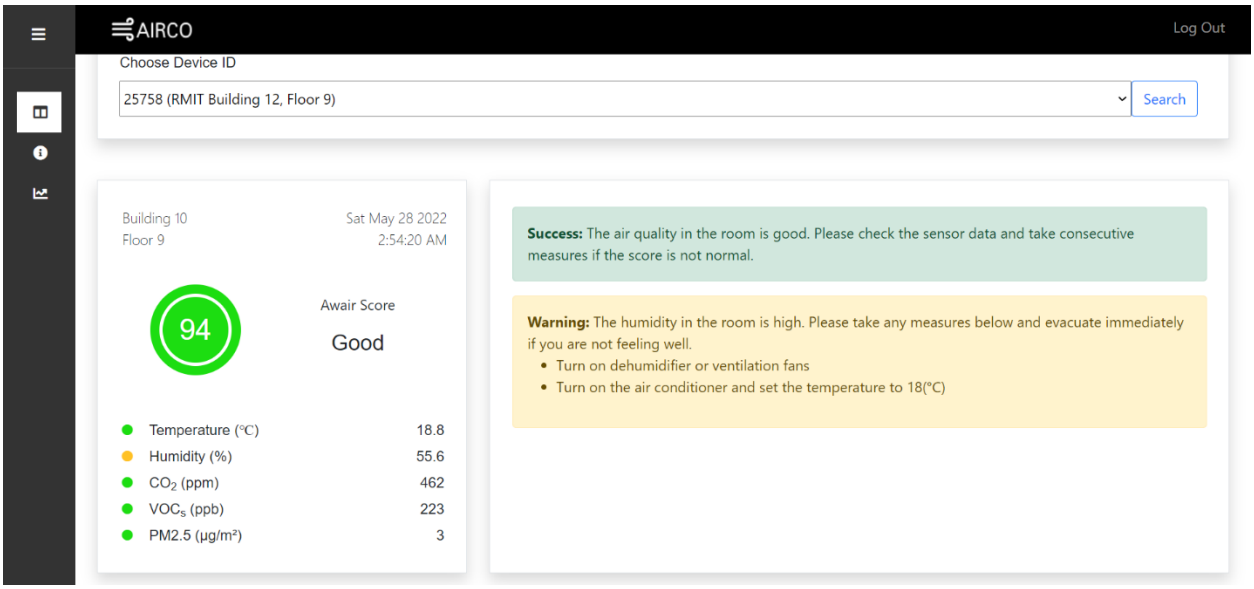
Epic 7

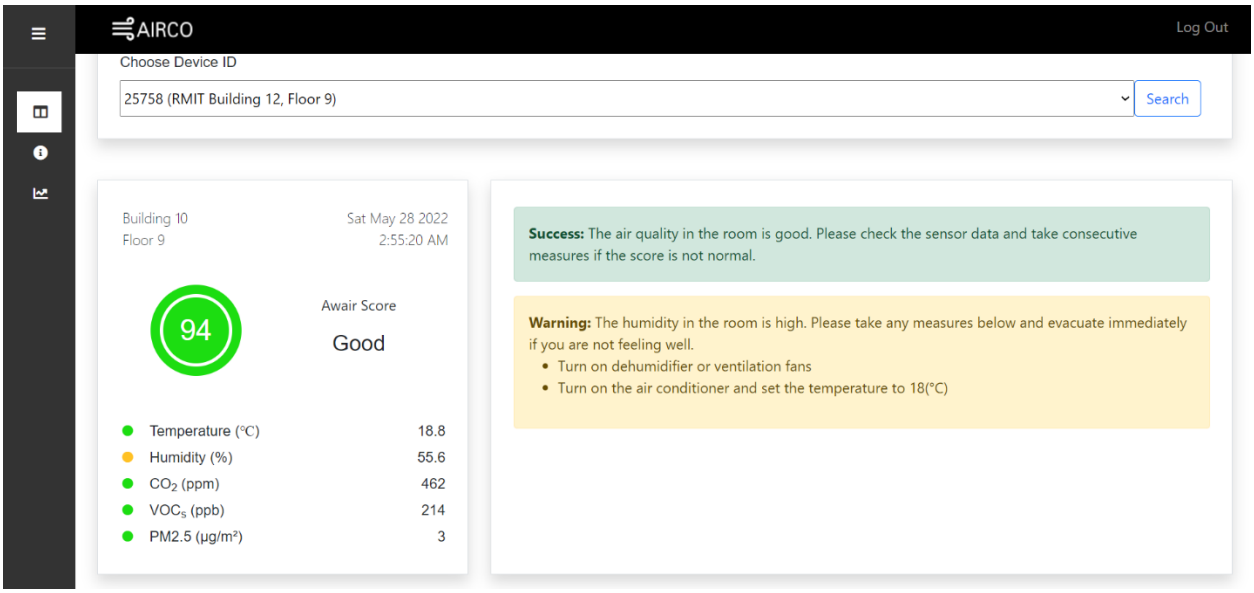
Dashboard page – The AQI value updates every one minute after a user search

Test Category ID	2 – Index presentation
Test Case ID	7
Test Case Summary	The AQI value updates every one minute after a user search
Related User Story	As a user, I want the dashboard to update the AQI value itself every one minute so that I do not need to press the search button multiple times to update the current value
Prerequisites	1. Register an account 2. Login to your account 3. Choose your location
Test Procedure	1. Press on select toolbar 2. Click on first option 3. Press Search button  4. Wait for one minute
Test Data	Option: 25758 (RMIT Building 12, Floor 9)

Expected Result	User can see a change in the timestamp and AQI values every one-minute interval
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

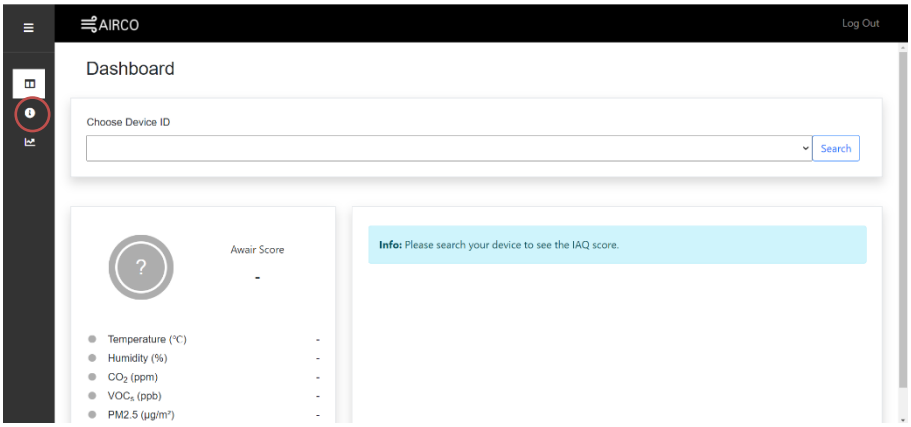
Full-size Image

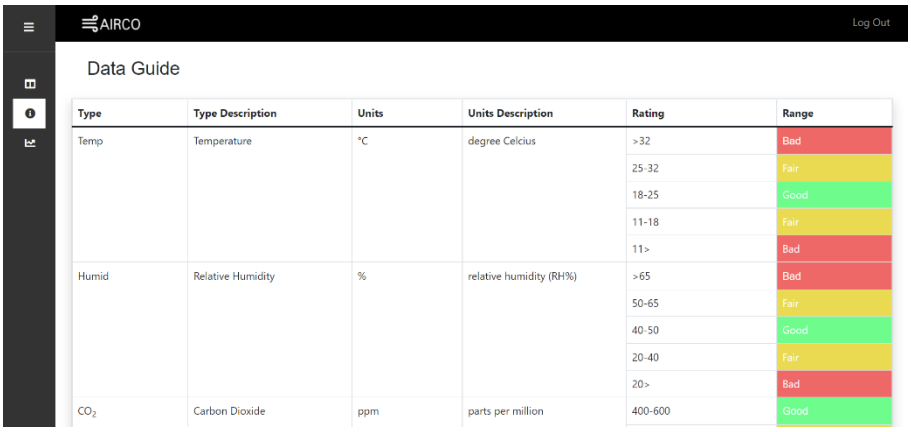




Epic 8

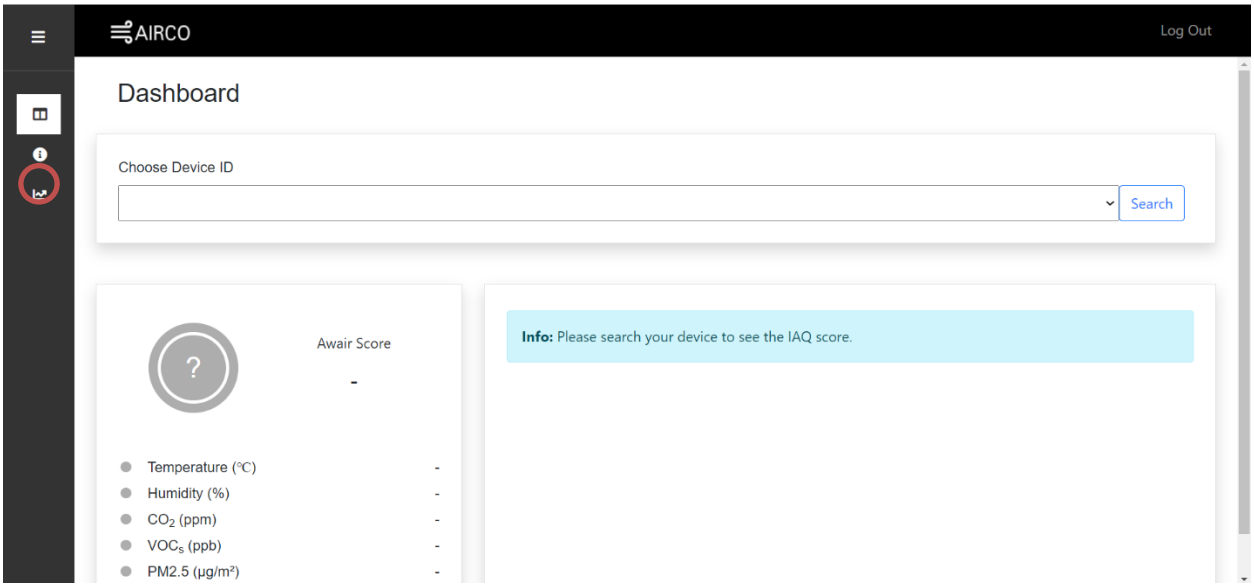
Guide page – User can see the complete category of each index value range of each AQI type

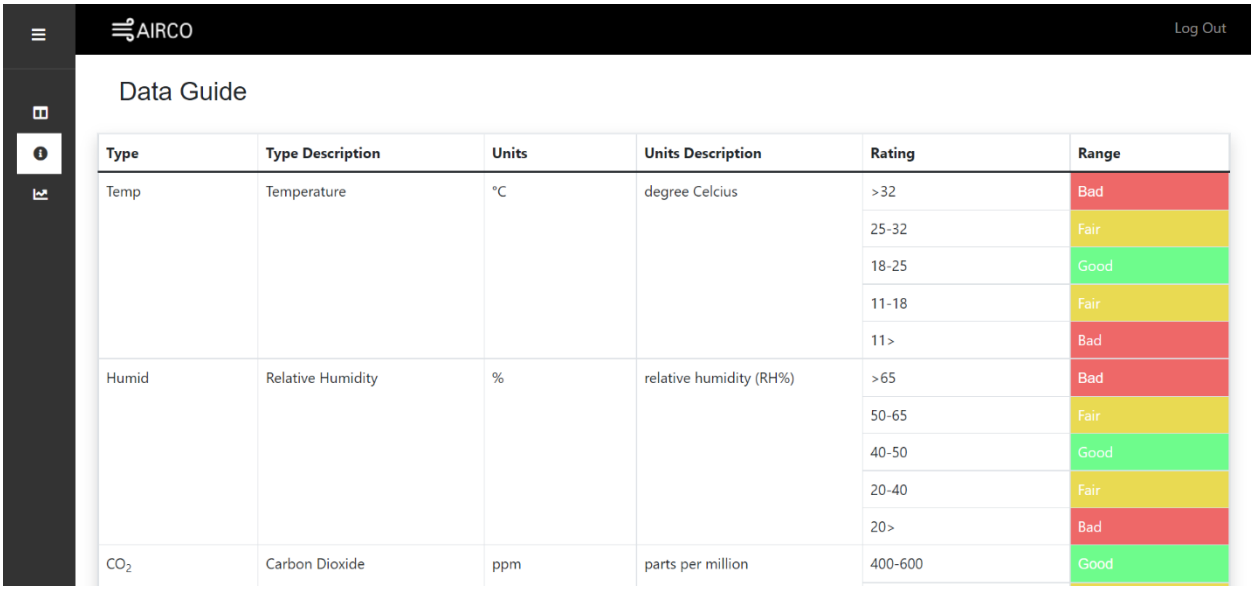
Test Category ID	3 – Guide presentation
Test Case ID	8
Test Case Summary	User can see the complete category of each index value range of each AQI type
Related User Story	As a user, I want to see the complete category of each index value range of each AQI type so that I get a full concept of index range of each AQI t5ype
Prerequisites	1. Register an account 2. Login to your account
Test Procedure	1. Click on the info icon at the sidebar 
Test Data	None
Expected Result	User can see a 6x5 table

Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Type	Type Description	Units	Units Description	Rating	Range
Temp	Temperature	°C	degree Celcius	>32	Bad
				25-32	Fair
				18-25	Good
				11-18	Fair
				11>	Bad
Humid	Relative Humidity	%	relative humidity (RH%)	>65	Bad
				50-65	Fair
				40-50	Good
				20-40	Fair
				20>	Bad
CO_2	Carbon Dioxide	ppm	parts per million	400-600	Good

Full-size Image

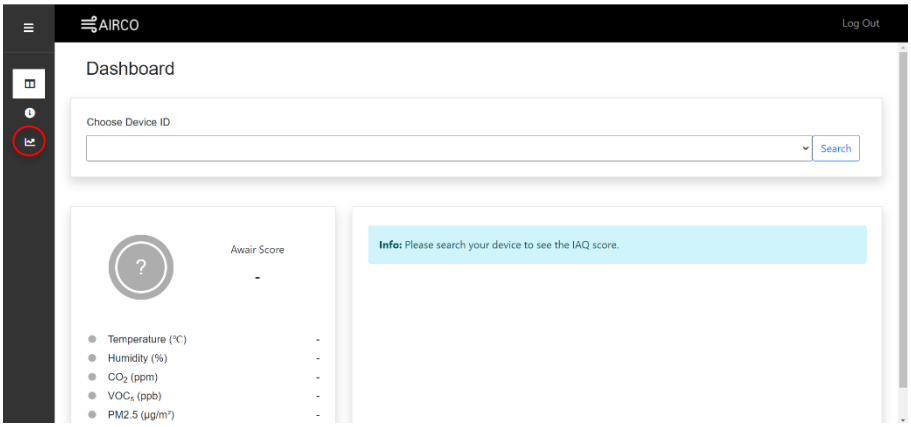


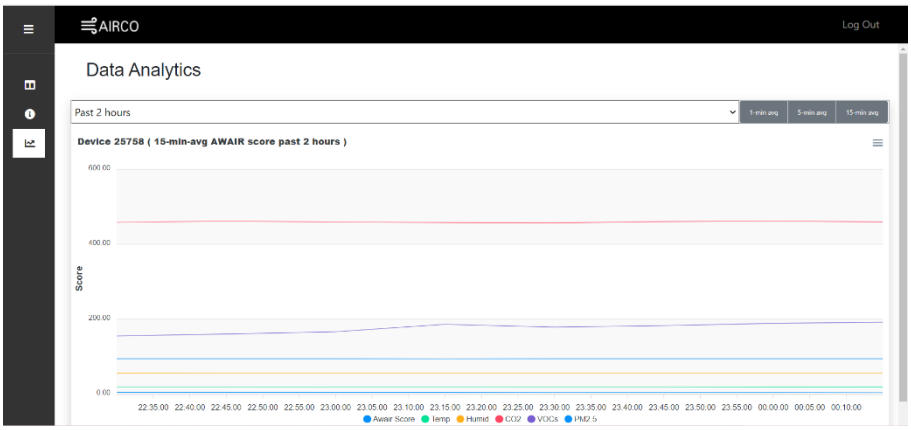


Type	Type Description	Units	Units Description	Rating	Range
Temp	Temperature	°C	degree Celcius	>32	Bad
				25-32	Fair
				18-25	Good
				11-18	Fair
				11>	Bad
Humid	Relative Humidity	%	relative humidity (RH%)	>65	Bad
				50-65	Fair
				40-50	Good
				20-40	Fair
				20>	Bad
CO_2	Carbon Dioxide	ppm	parts per million	400-600	Good

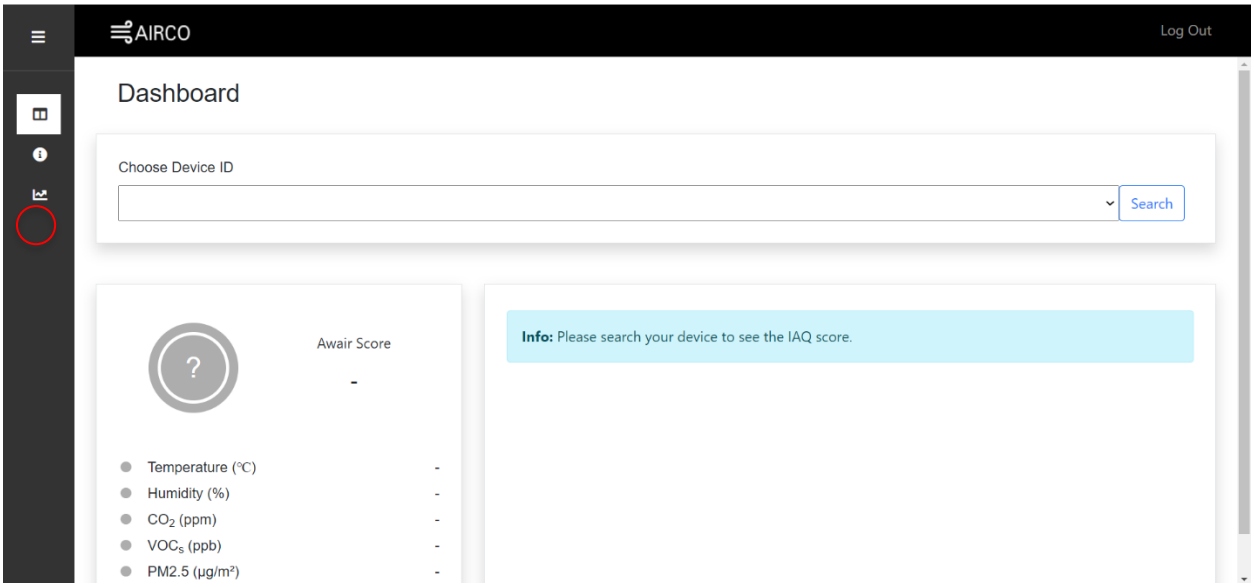
Epic 9

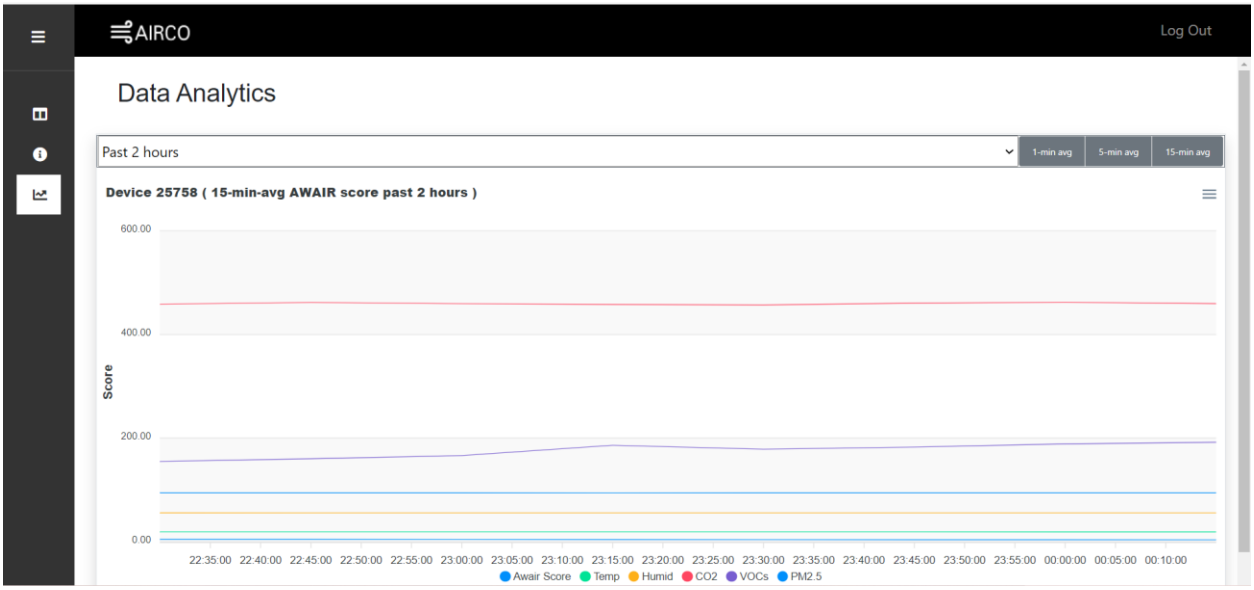
Analytics page – User can see a line chart of data of all AQI types past 2 hours at a 15-min interval

Test Category ID	3 – Analytics presentation
Test Case ID	9
Test Case Summary	User can see a line chart of data of all AQI types past 2 hours at a 15-min interval
Related User Story	As a user, I want to see a line chart of data of all AQI types past 2 hours at a 15-min interval so that I can identify the trend of AQI value in the past two hours at a 15-min interval
Prerequisites	1. Register an account 2. Login to your account 3. Press on select toolbar 4. Click on first option 5. Press Search button
Test Procedure	1. Click on the line chart icon 
Test Data	Default Range: Past 2 hours Interval: 15-min avg
Expected Result	User can see a line chart named “Device 25758 (15-min-avg AWAIR score past 2 hours)”. 8 sets of data is plotted on the graph for 6 AQI types across two hours.

Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

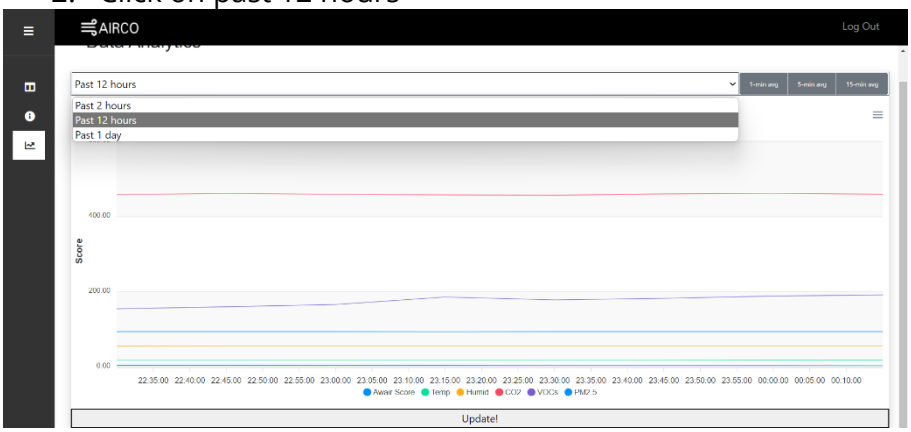
Full-size Image

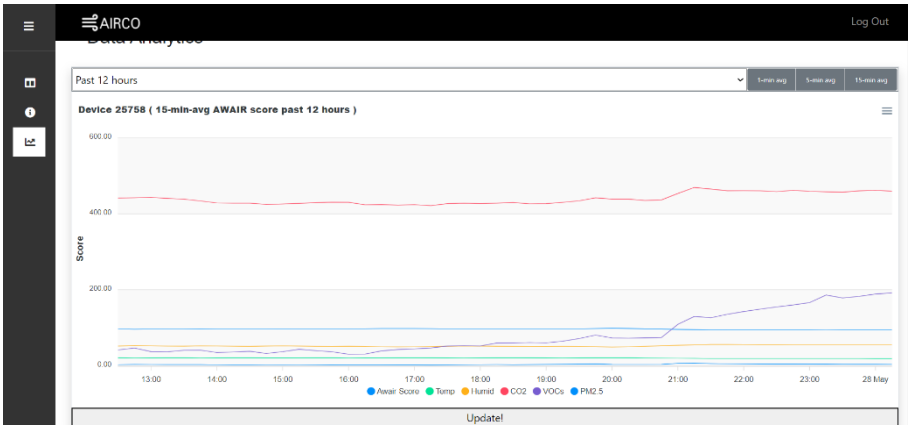




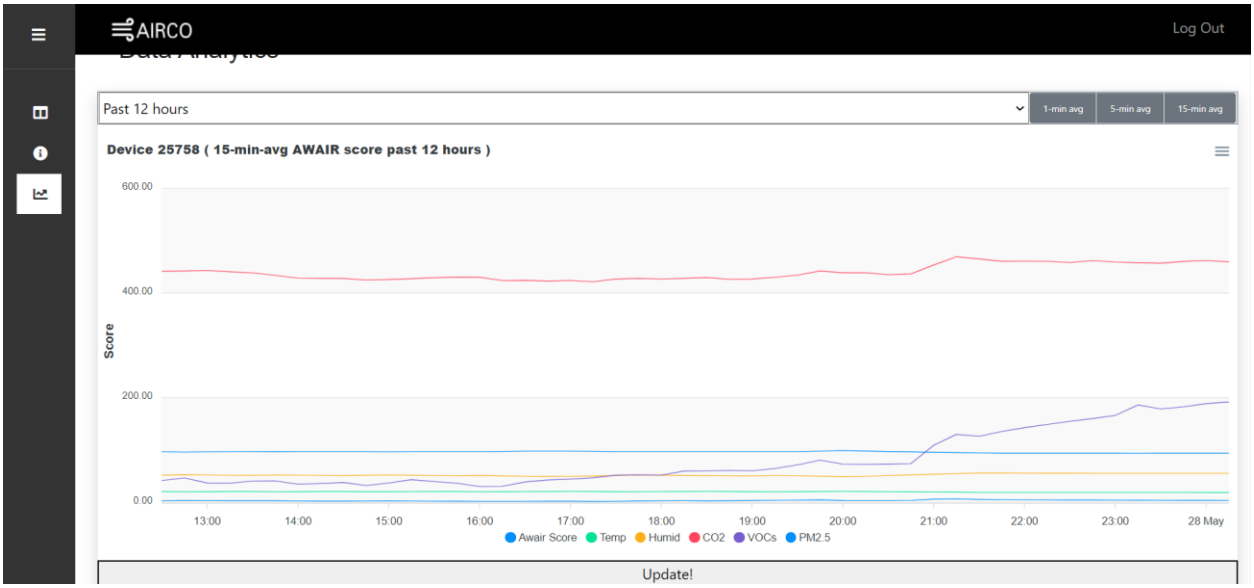
Epic 10

Analytics page – User can see a line chart of data of all AQI types past 12 hours at a 15-min interval

Test Category ID	3 – Analytics presentation
Test Case ID	10
Test Case Summary	User can see a line chart of data of all AQI types past 12 hours at a 15-min interval
Related User Story	As a user, I want to see a line chart of data of all see a line chart of data of all AQI types past 12 hours at a 15-min interval so that I can identify the trend of AQI value in the past 12 hours at a 15-min interval
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar
Test Procedure	1. Click on select toolbar 2. Click on past 12 hours  3. Click on “Update!” button
Test Data	Range: Past 12 hours Interval: 15-min avg

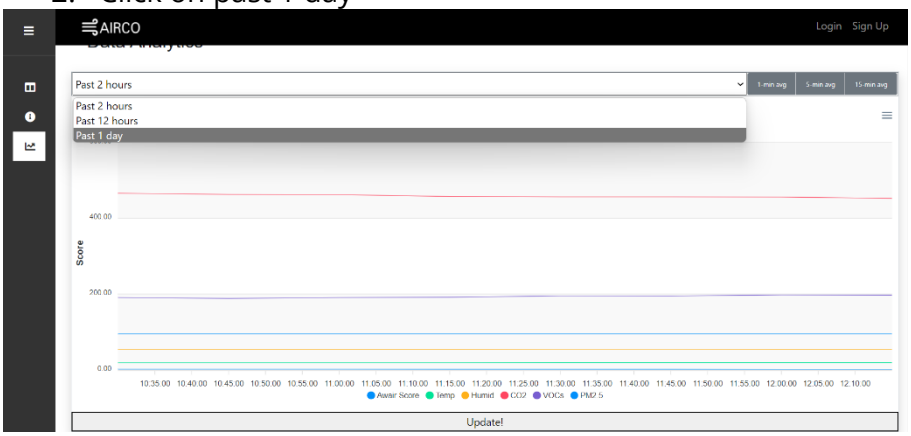
Expected Result	User can see a line chart named “Device 25758 (15-min-avg AWAIR score past 12 hours)”. 48 sets of data are plotted on the graph for 6 AQI types across 12 hours.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

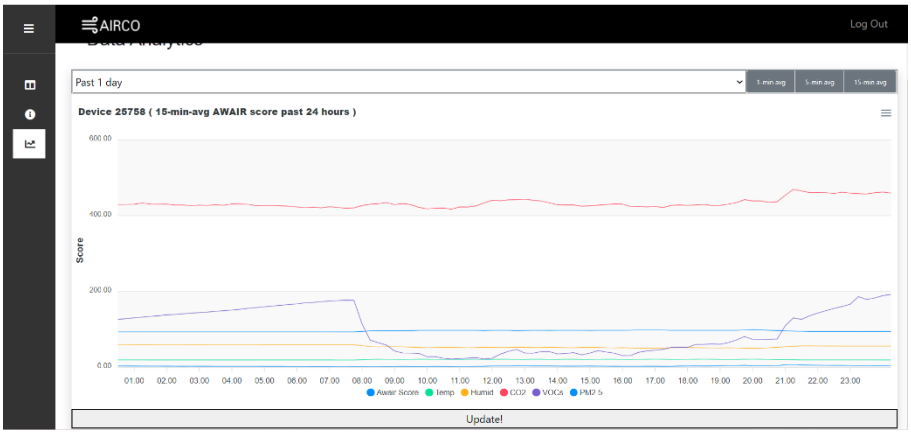
Full-size Image



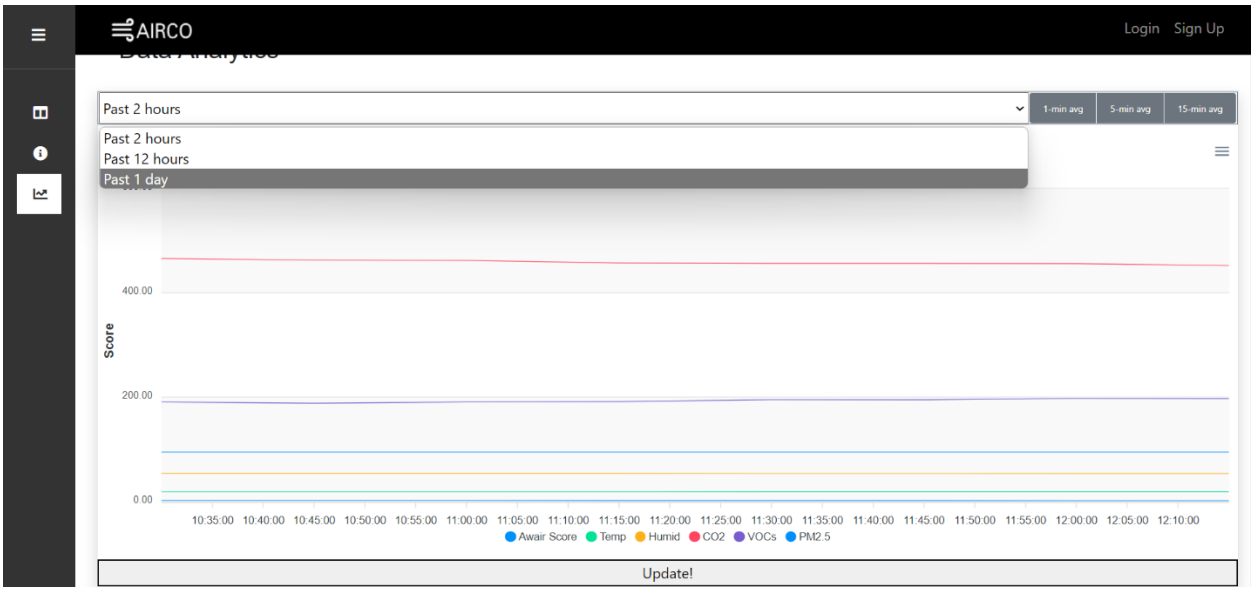
Epic 11

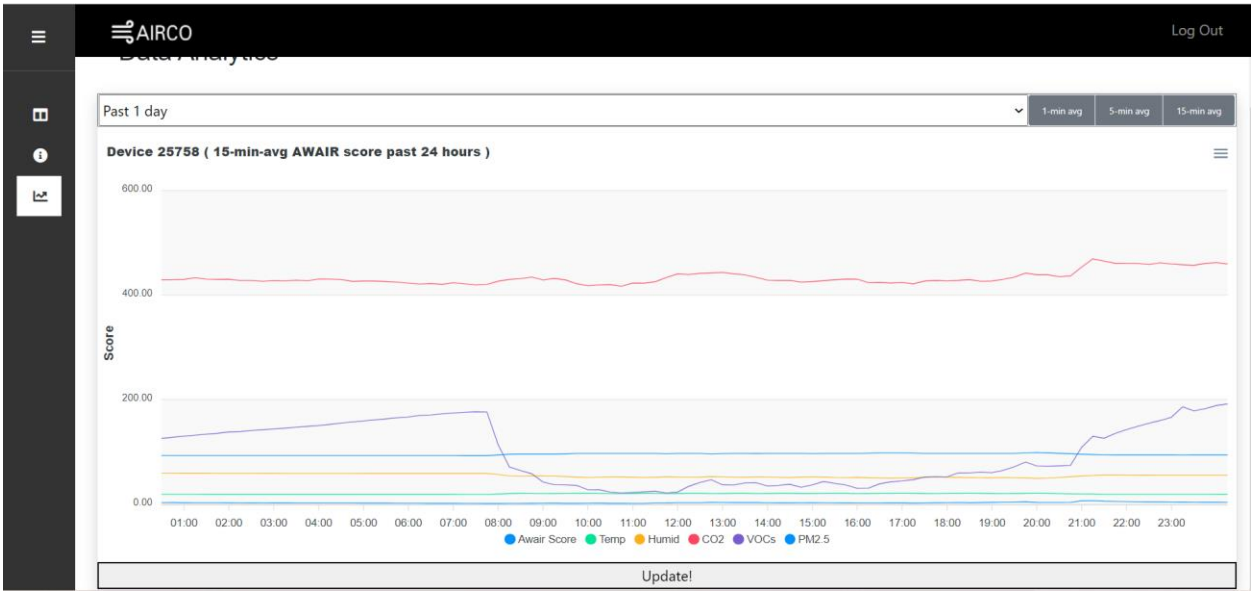
Analytics page – User can see a line chart of data of all AQI types past 1 day at a 15-min interval

Test Category ID	3 – Analytics presentation
Test Case ID	11
Test Case Summary	User can see a line chart of data of all AQI types past 1 day at a 15-min interval
Related User Story	As a user, I want to see a line chart of data of all see a line chart of data of all AQI types past 1 day at a 15-min interval so that I can identify the trend of AQI value in the past 1 day at a 15-min interval
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar
Test Procedure	1. Click on select toolbar 2. Click on past 1 day  4. Click on “Update!” button
Test Data	Range: Past 1 day Interval: 15-min avg

Expected Result	User can see a line chart named “Device 25758 (15-min-avg AWAIR score past 24 hours)”. 96 sets of data are plotted on the graph for 6 AQI types across 24 hours.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Full-size Image

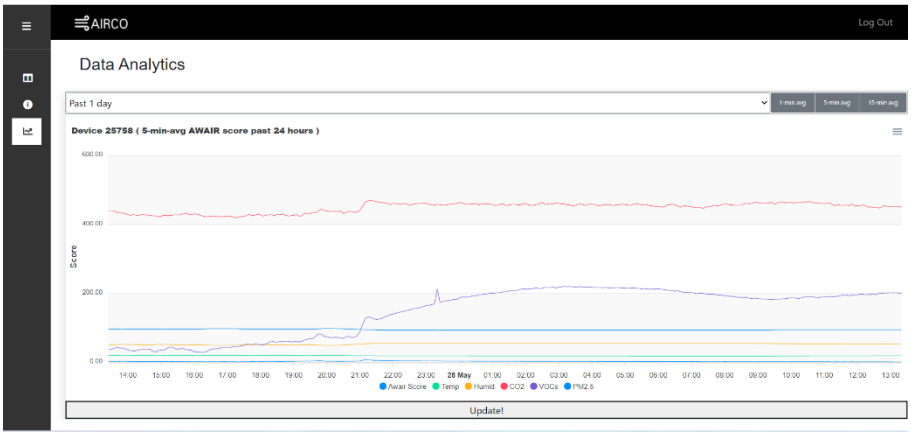




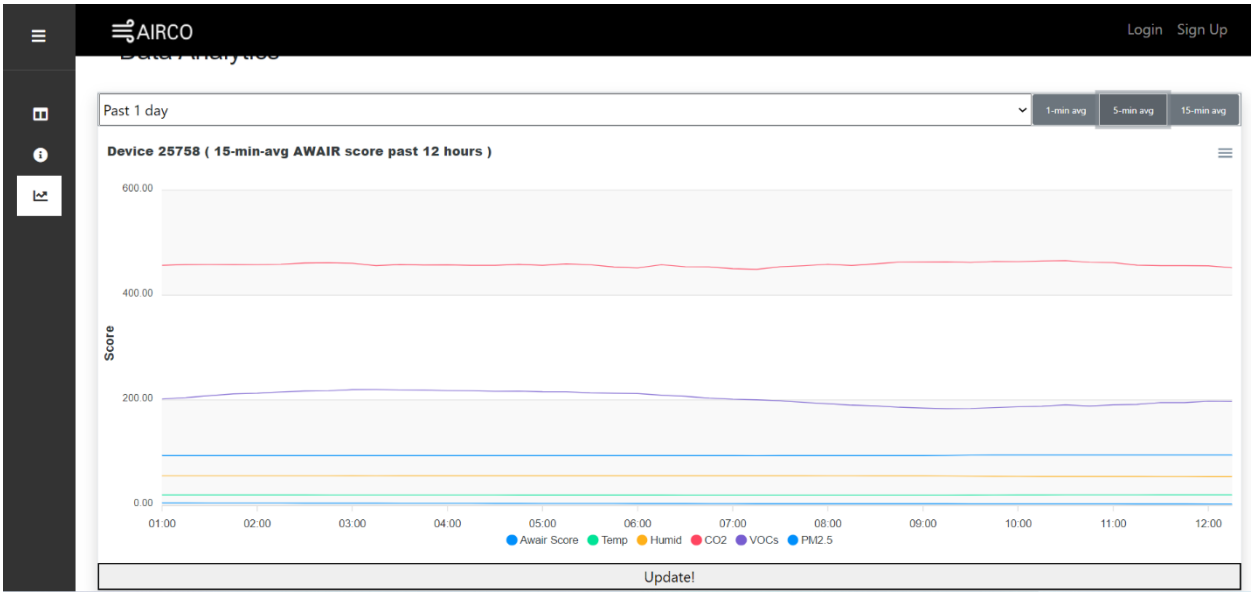
Epic 12

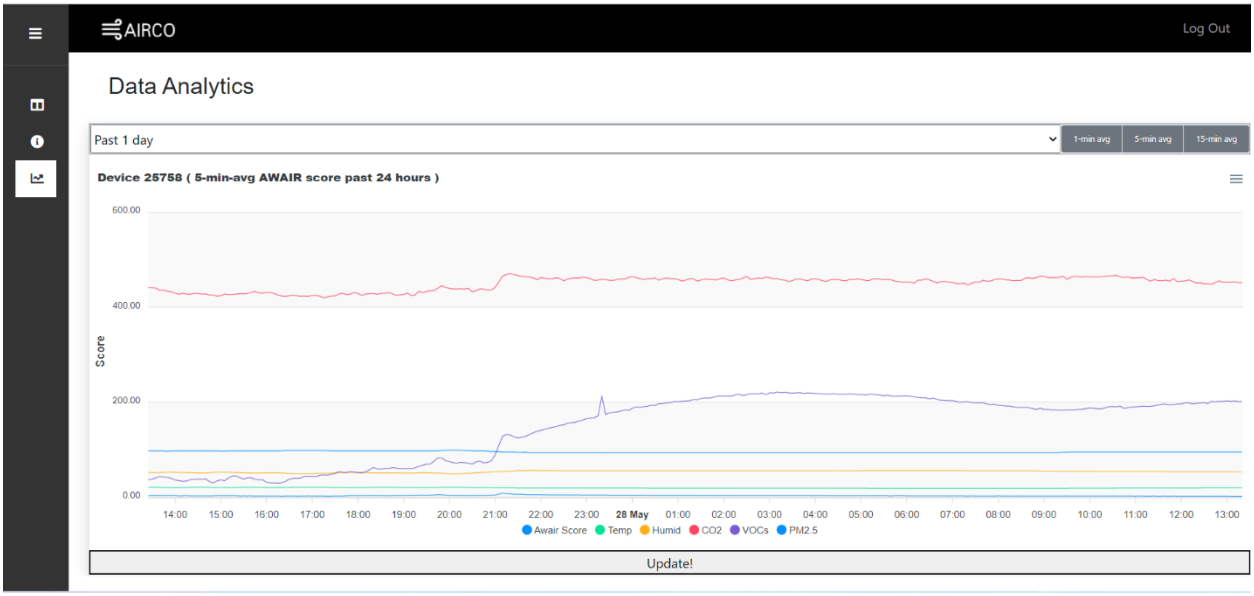
Analytics page – User can see a line chart of data of all AQI types past 1 day at a 5-min interval

Test Category ID	3 – Analytics presentation
Test Case ID	12
Test Case Summary	User can see a line chart of data of all AQI types past 1 day at a 5-min interval
Related User Story	As a user, I want to see a line chart of data of all see a line chart of data of all AQI types past 1 day at a 5-min interval so that I can identify the trend of AQI value in the past 1 day at a 5-min interval
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar
Test Procedure	1. Click on select toolbar 2. Click on past 1 day 3. Click on 5-min avg 4. Click on “Update!” button
Test Data	Range: Past 1 day Interval: 5-min avg

Expected Result	User can see a line chart named “Device 25758 (5-min-avg AWAIR score past 24 hours)”. Approximately 288 sets of data are plotted on the graph for 6 AQI types across 24 hours.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

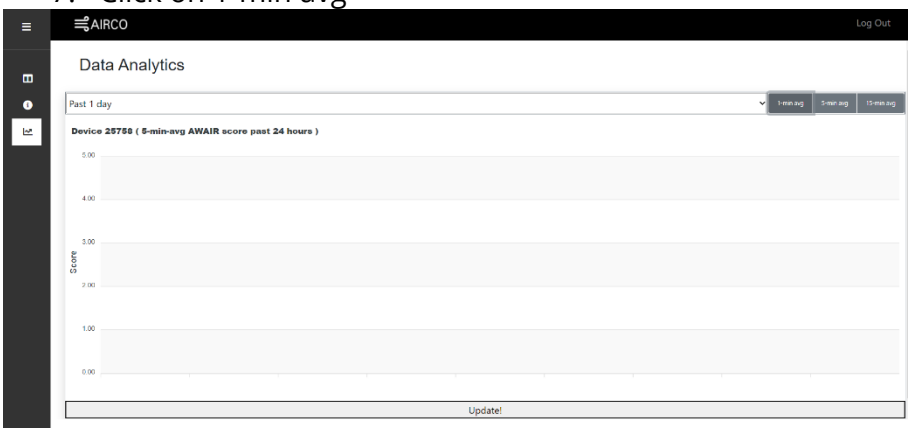
Full-size Image

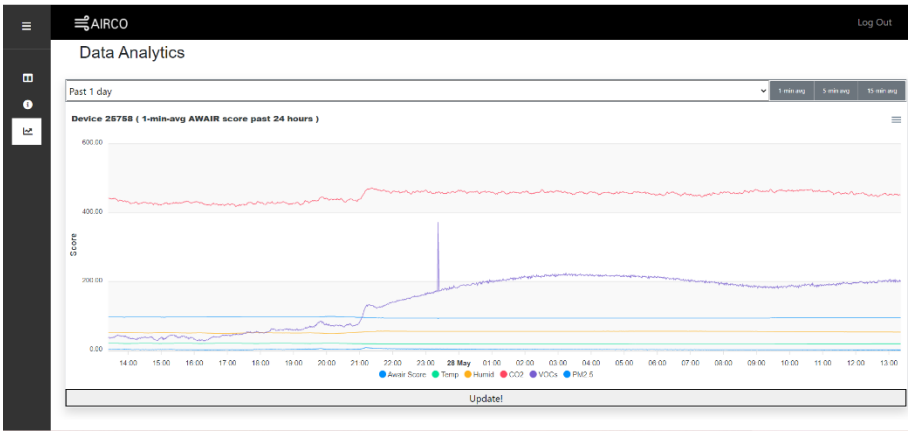




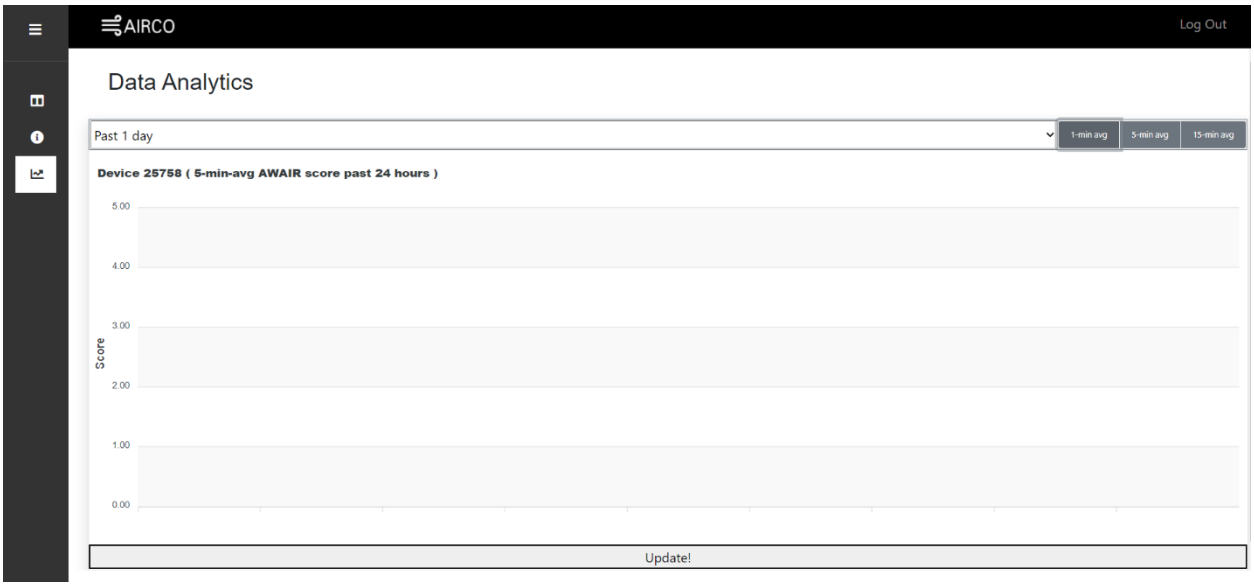
Epic 13

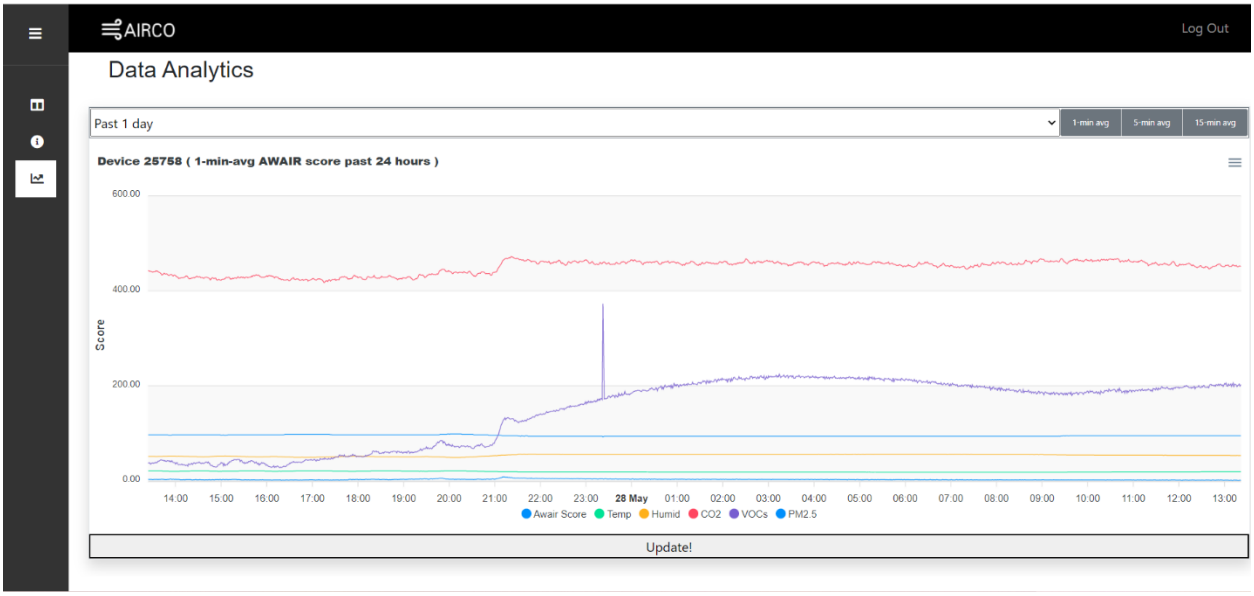
Analytics page – User can see a line chart of data of all AQI types past 1 day at 1-min interval

Test Category ID	3 – Analytics presentation
Test Case ID	13
Test Case Summary	User can see a line chart of data of all AQI types past 1 day at 1-min interval
Related User Story	As a user, I want to see a line chart of data of all see a line chart of data of all AQI types past 1 day at a 1-min interval so that I can identify the trend of AQI value in the past 1 day at 1-min interval
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar
Test Procedure	5. Click on select toolbar 6. Click on past 1 day 7. Click on 1-min avg  8. Click on “Update!” button
Test Data	Range: Past 1 day Interval: 1-min avg

Expected Result	User can see a line chart named “Device 25758 (1-min-avg AWAIR score past 24 hours)”. Approximately 1440 sets of data are plotted on the graph for 6 AQI types across 24 hours.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

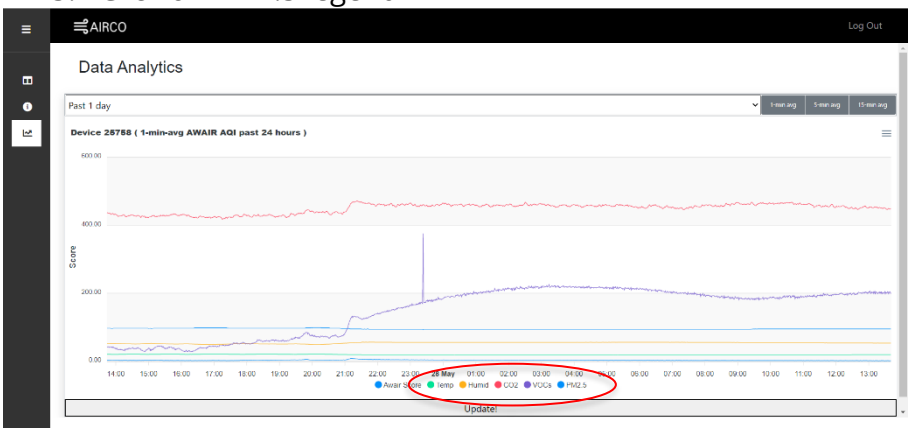
Full-size Image

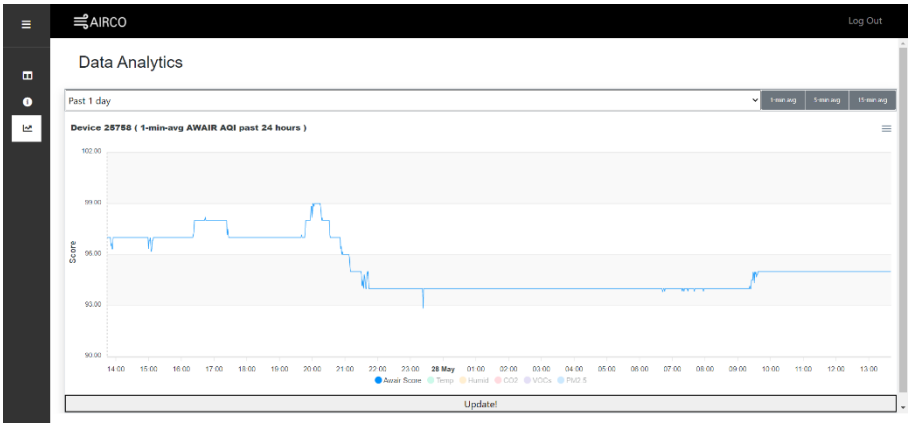




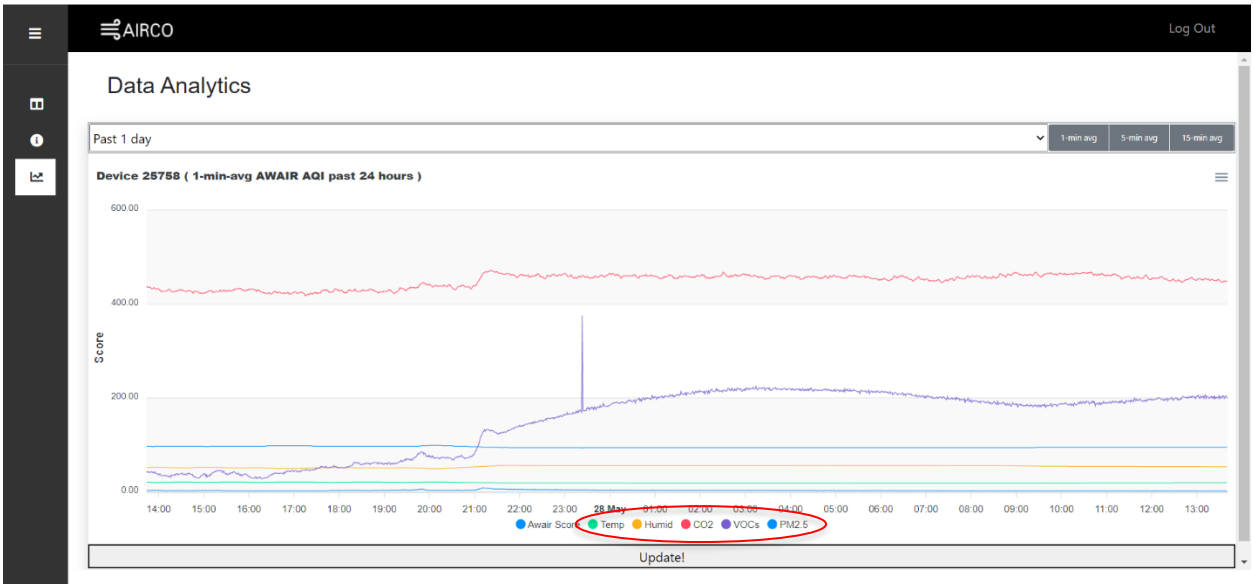
Epic 14

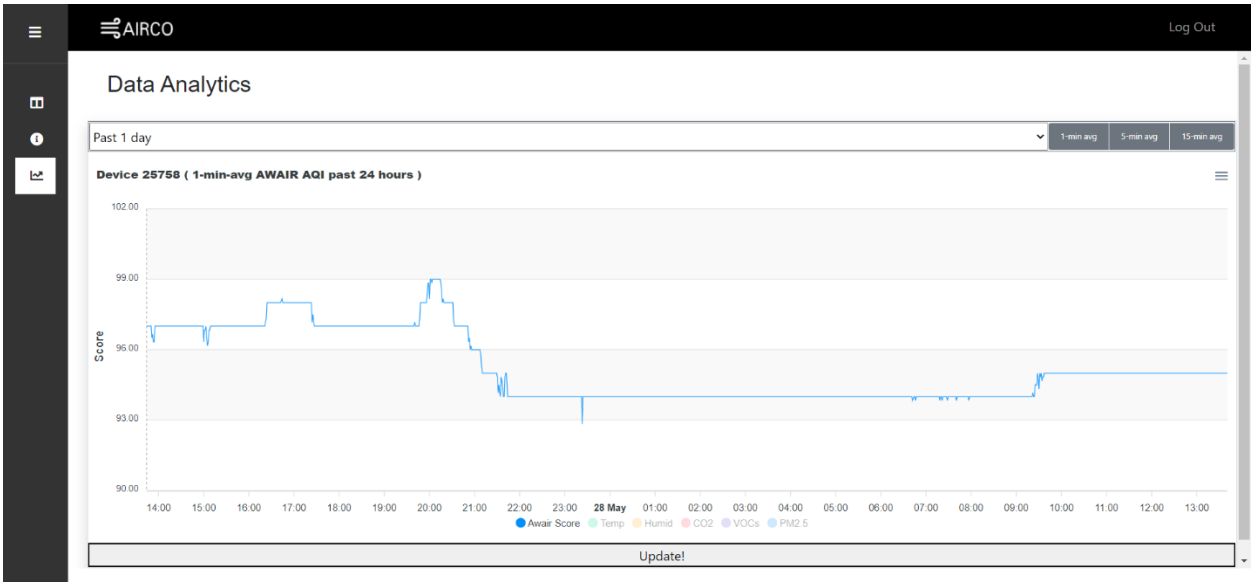
Analytics page – User can toggle the legends of the chart

Test Category ID	3 – Analytics presentation
Test Case ID	14
Test Case Summary	User can toggle the legends of the chart
Related User Story	As a user, I want to see one AQI type on the chart so that I can identify the trend of one AQI value at one time
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar 7. Click on select toolbar 8. Click on past 1 day 9. Click on 1-min avg 10. Click on “Update!” button
Test Procedure	1. Click on Temp legend 2. Click on Humid legend 3. Click on CO_2 legend 4. Click on VOCs legend 5. Click on PM2.5 legend 

Test Data	Range: Past 1 day Interval: 1-min avg Legend: Awair Score
Expected Result	User can see a line chart named “Device 25758 (1-min-avg AWAIR AQI past 24 hours)”. Approximately 1440 sets of data are plotted on the graph for Awair Score across 24 hours.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

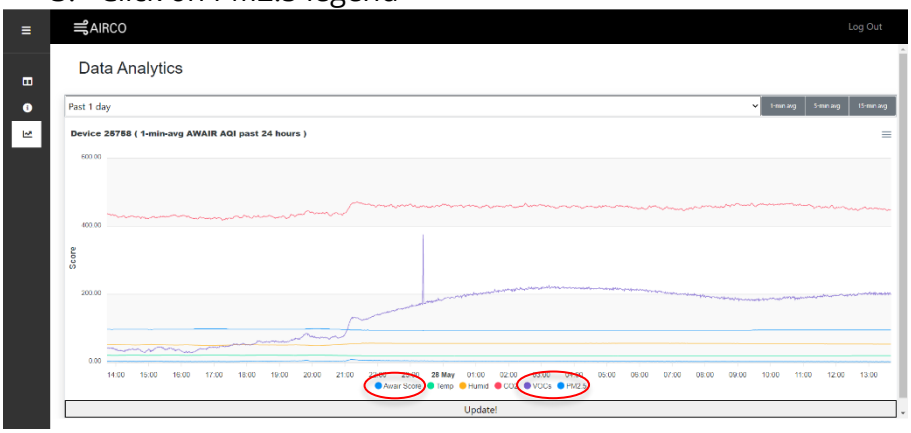
Full-size Image

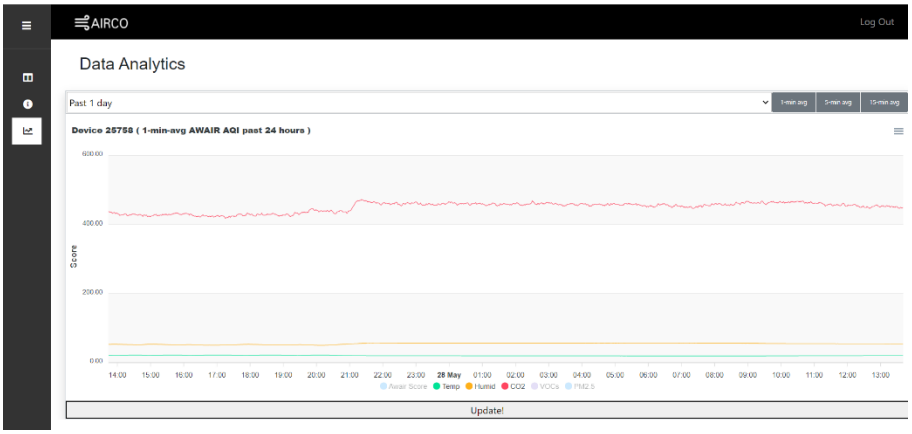




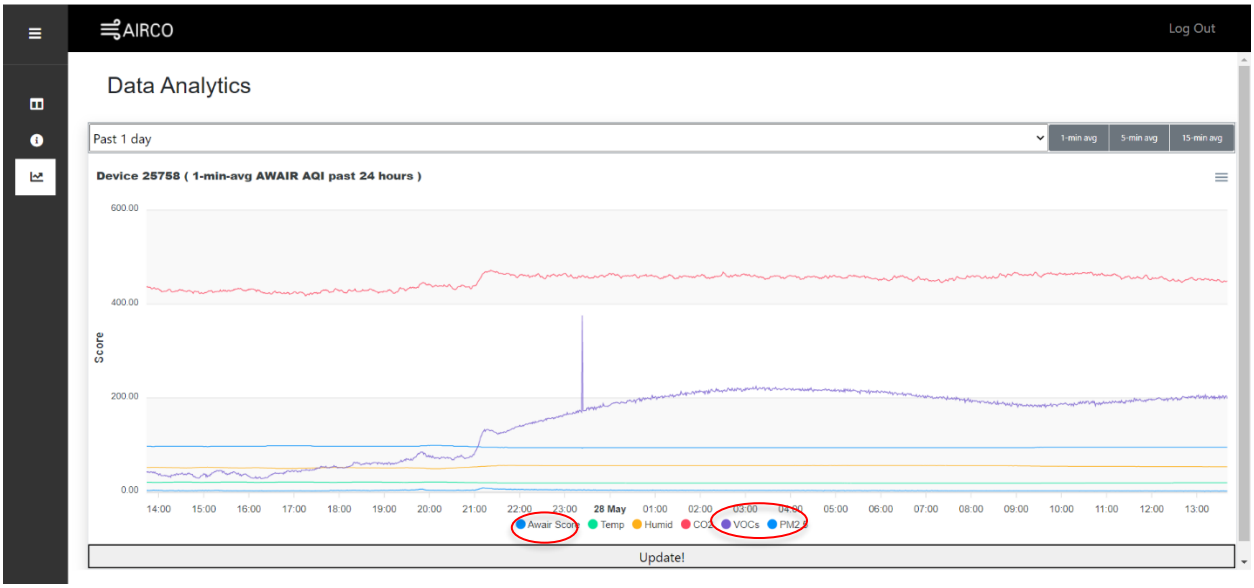
Epic 15

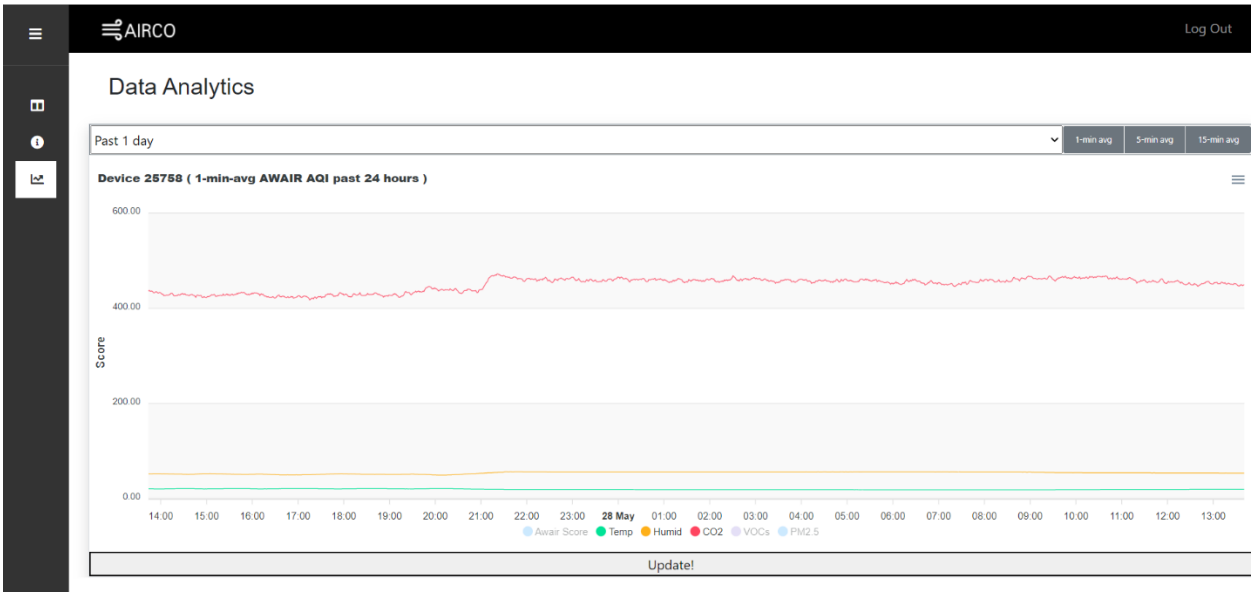
Analytics page – User can toggle the legends of the chart

Test Category ID	3 – Analytics presentation
Test Case ID	15
Test Case Summary	User can toggle the legends of the chart
Related User Story	As a user, I want to see three AQI types on the chart so that I can identify the trend of three AQI value at the same time
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar 7. Click on select toolbar 8. Click on past 1 day 9. Click on 1-min avg 10. Click on “Update!” button
Test Procedure	1. Click on Awair Score legend 2. Click on VOCs legend 3. Click on PM2.5 legend 

Test Data	Range: Past 1 day Interval: 1-min avg Legend: Temp, Humid, CO_2
Expected Result	User can see a line chart named “Device 25758 (1-min-avg AWAIR AQI past 24 hours)”. Approximately 1440 sets of data are plotted on the graph for Temp, Humid and CO_2 across 24 hours.
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

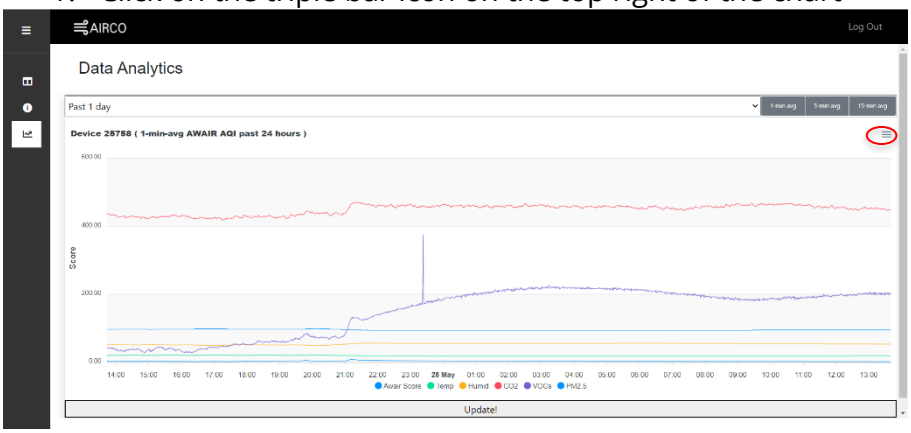
Full-size Image

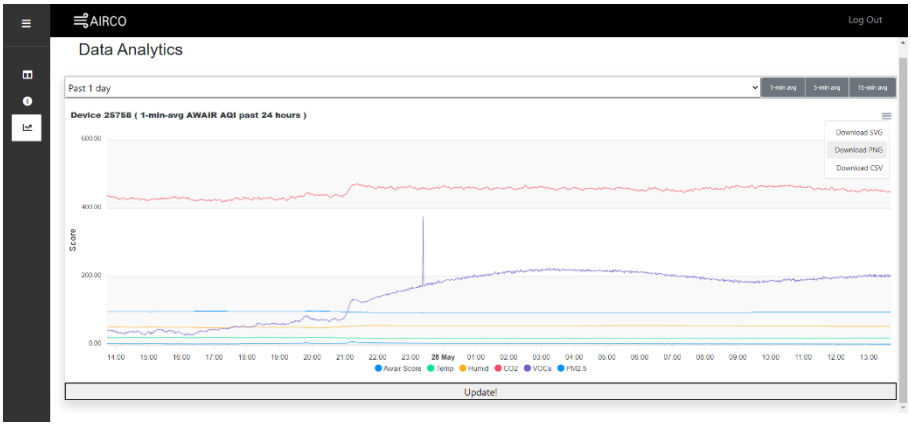
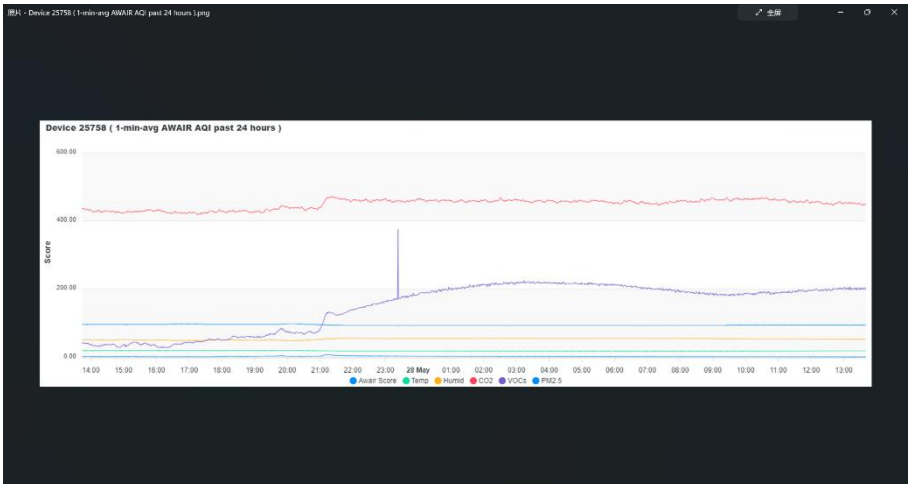




Epic 16

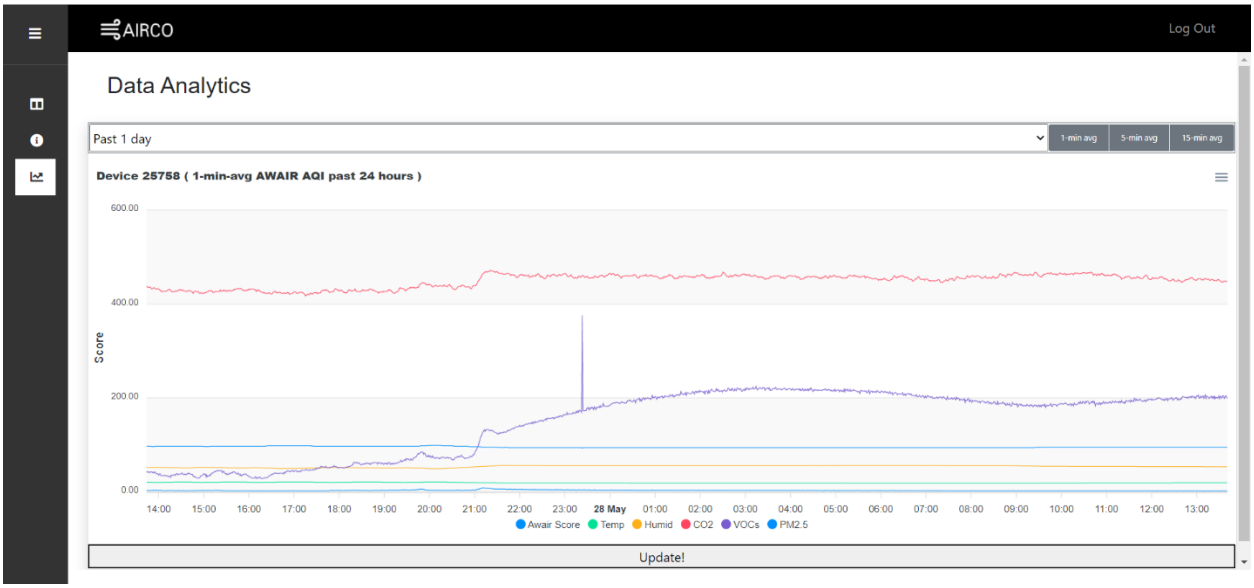
Analytics page – User can export the chart image in PNG format

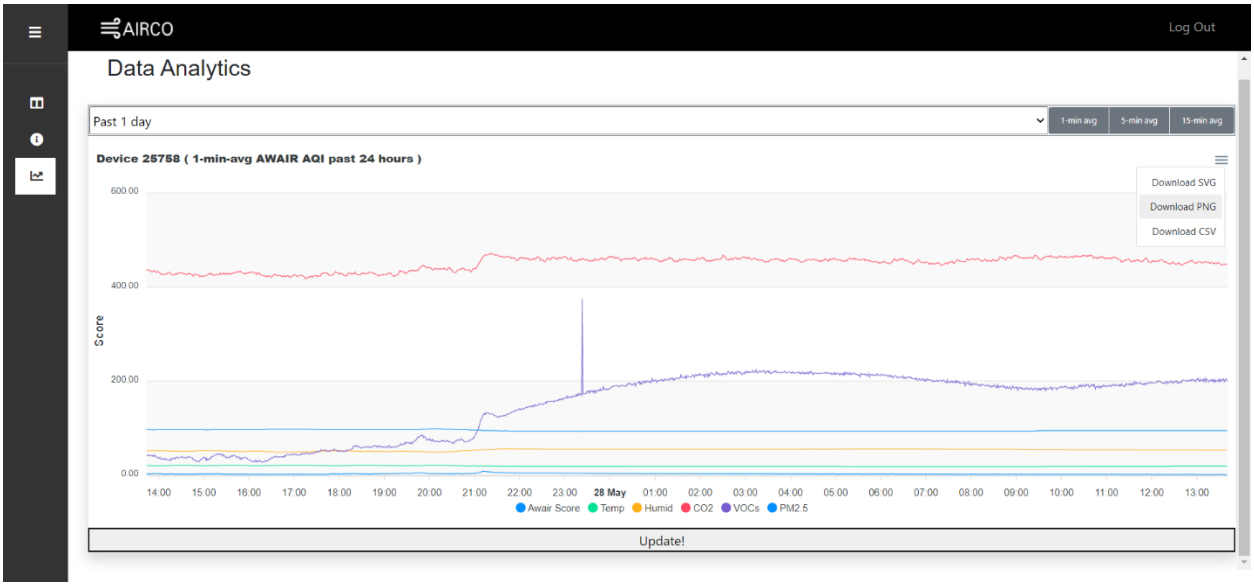
Test Category ID	3 – Analytics presentation
Test Case ID	16
Test Case Summary	User can export the chart image in PNG format
Related User Story	As a user, I want to export the chart image in PNG format so that I can store a copy of the data information in my local machine
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar 7. Click on select toolbar 8. Click on past 1 day 9. Click on 1-min avg 10. Click on “Update!” button
Test Procedure	1. Click on the triple bar icon on the top right of the chart  2. Click on Download PNG

	
Test Data	Range: Past 1 day Interval: 1-min avg
Expected Result	A file named “Device 25758 (1-min-avg AWAIR AQI past 24 hours).png” is downloaded to the local machine
Actual Result	
Status	Pass
Remarks	No remarks.
Created By	Anson Go Guang Ping (s3767707)

Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

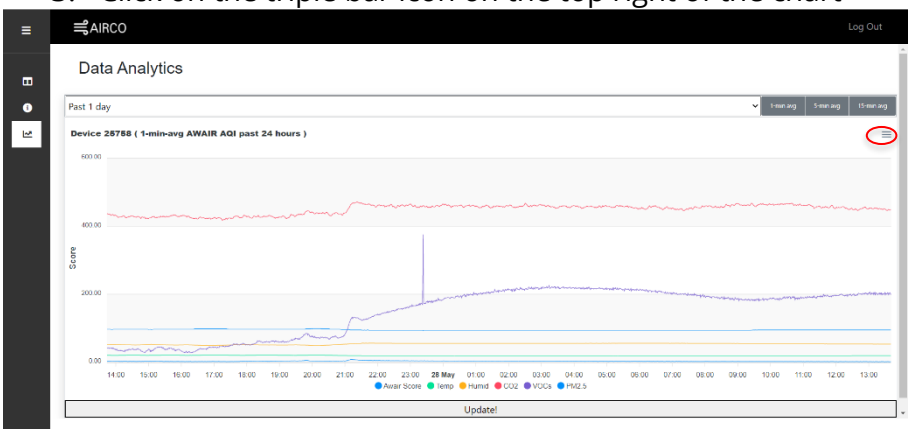
Full-size Image

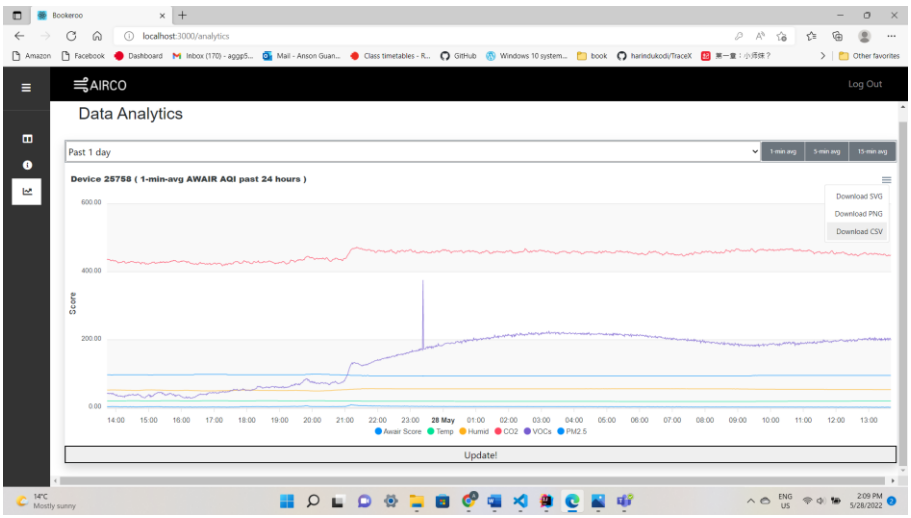
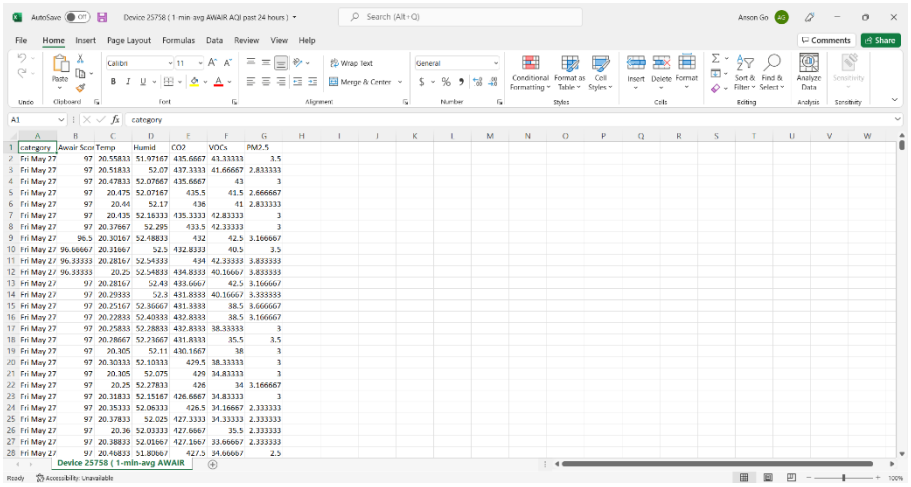




Epic 17

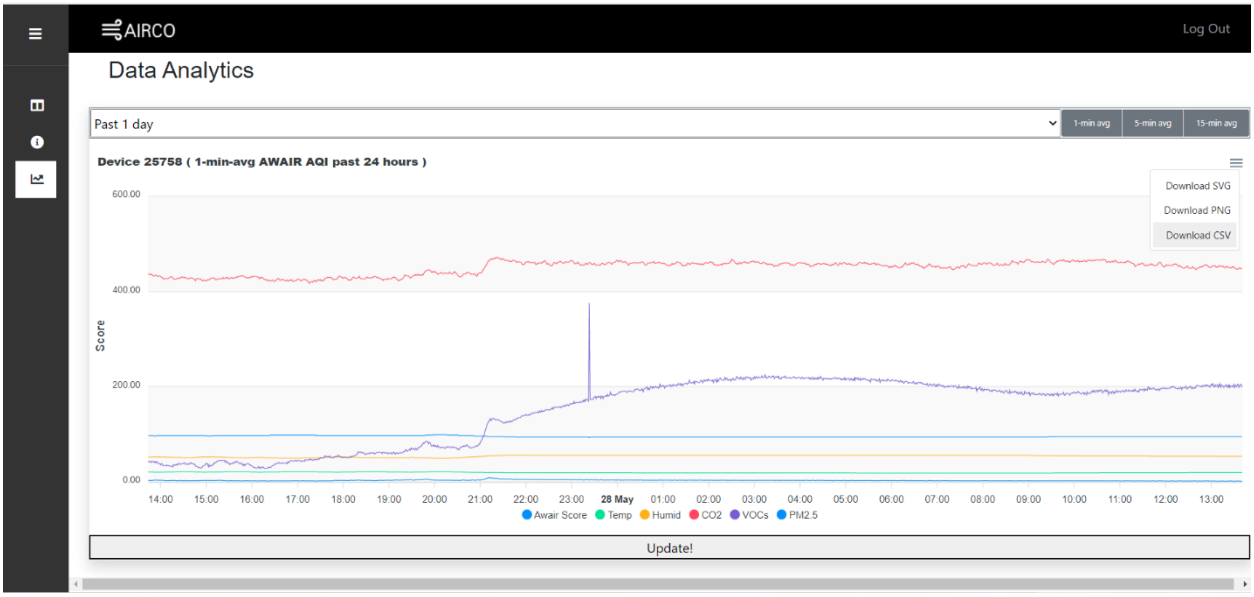
Analytics page – User can export the chart data in csv format

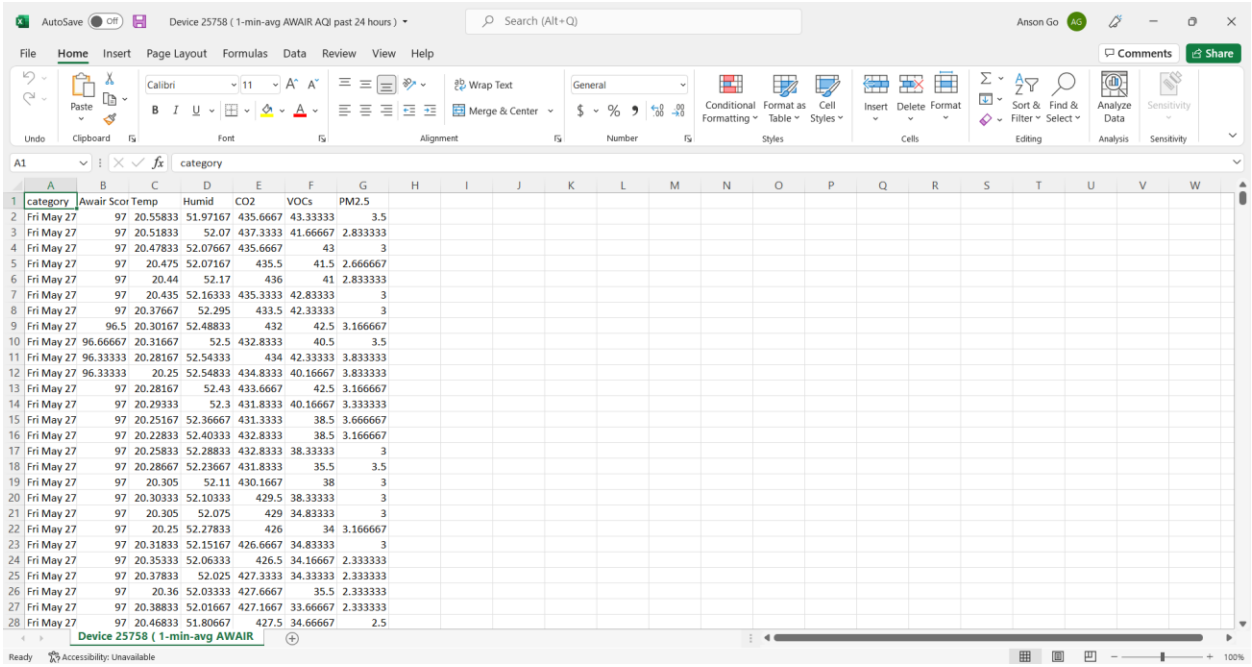
Test Category ID	3 – Analytics presentation
Test Case ID	17
Test Case Summary	User can export the chart data in csv format
Related User Story	As a user, I want to export the chart data in csv format so that I can analyze the data
Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar 7. Click on select toolbar 8. Click on past 1 day 9. Click on 1-min avg 10. Click on “Update!” button
Test Procedure	3. Click on the triple bar icon on the top right of the chart  4. Click on Download CSV

	
Test Data	Range: Past 1 day Interval: 1-min avg
Expected Result	A file named “Device 25758 (1-min-avg AWAIR AQI past 24 hours).csv” is downloaded to the local machine
Actual Result	
Status	Pass
Remarks	No remarks.

Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Full-size Image



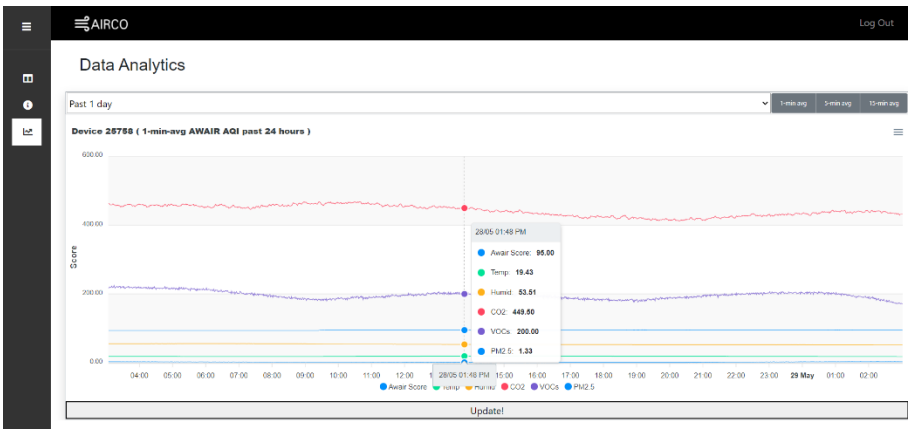


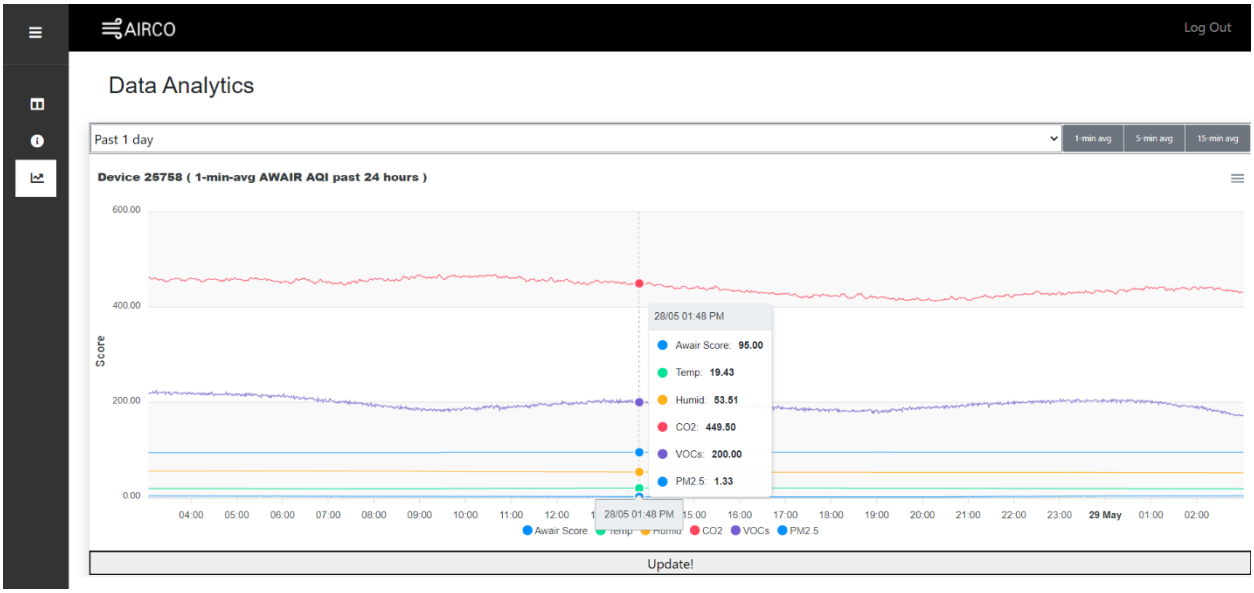
category	Awair Scor	Temp	Humid	CO2	VOCs	PM2.5
Fri May 27	97	20.55833	51.97167	435.6667	43.33333	3.5
Fri May 27	97	20.51833	52.07	437.3333	41.66667	2.833333
Fri May 27	97	20.47833	52.07667	435.6667	43	3
Fri May 27	97	20.475	52.07167	435.5	41.5	2.666667
Fri May 27	97	20.44	52.17	436	41	2.833333
Fri May 27	97	20.435	52.16333	435.3333	42.83333	3
Fri May 27	97	20.37667	52.295	433.5	42.33333	3
Fri May 27	96.5	20.30167	52.48833	432	42.5	3.166667
Fri May 27	96.66667	20.31667	52.5	432.8333	40.5	3.5
Fri May 27	96.33333	20.28167	52.54333	434	42.33333	3.833333
Fri May 27	96.33333	20.25	52.54833	434.8333	40.16667	3.833333
Fri May 27	97	20.28167	52.43	433.6667	42.5	3.166667
Fri May 27	97	20.29333	52.3	431.8333	40.16667	3.333333
Fri May 27	97	20.25167	52.36667	431.3333	38.5	3.666667
Fri May 27	97	20.22833	52.40333	432.8333	38.5	3.166667
Fri May 27	97	20.25833	52.28833	432.8333	38.33333	3
Fri May 27	97	20.28667	52.23667	431.8333	35.5	3.5
Fri May 27	97	20.305	52.11	430.1667	38	3
Fri May 27	97	20.30333	52.10333	429.5	38.33333	3
Fri May 27	97	20.305	52.075	429	34.83333	3
Fri May 27	97	20.25	52.27833	426	34	3.166667
Fri May 27	97	20.31833	52.15167	426.6667	34.83333	3
Fri May 27	97	20.35333	52.06333	426.5	34.16667	2.333333
Fri May 27	97	20.37833	52.025	427.3333	34.33333	2.333333
Fri May 27	97	20.36	52.03333	427.6667	35.5	2.333333
Fri May 27	97	20.38833	52.01667	427.1667	33.66667	2.333333
Fri May 27	97	20.46833	51.80667	427.5	34.66667	2.5

Epic 18

Analytics page – User can see the tooltip of each plot in the chart

Test Category ID	3 – Analytics presentation
Test Case ID	17
Test Case Summary	User can see the tooltip of each plot in the chart
Related User Story	As a user, I want to see the tooltip of each plot in the chart so that I can see the values of the plot accurately.

Prerequisites	1. Register an account 2. Login to your account 3. Click on select toolbar 4. Click on first option 5. Click on Search button 6. Click on the line chart icon at the sidebar 7. Click on select toolbar 8. Click on past 1 day 9. Click on 1-min avg 10. Click on “Update!” button
Test Procedure	1. Hover your mouse over the plot you want to see
Test Data	Range: Past 1 day Interval: 1-min avg
Expected Result	A tooltip is shown. It displays the value of x-axis and the values of each categories in y-axis.
Actual Result	
Status	Pass
Remarks	No remarks.

Created By	Anson Go Guang Ping (s3767707)
Date of Creation	02/4/2022
Executed By	Anson Go Guang Ping (s3767707)
Date of Execution	05/28/2022
Test Environment	Microsoft Edge

Full-size Image