Smart House Weather – User Acceptance Testing

This is a form to fill in User Acceptance Testing of the Smart House/Weather Dashboard. Please fill in the sections of each table highlighted in yellow. Please refer to the User Manual section of this document for full instructions on how to use the Smart House/Weather Dashboard.

# Landing (Home) Page

|  |  |
| --- | --- |
| Label | Value |
| Name | Landing Page |
| Description | Access the Landing (Home) Page |
| Reporter (Your Name) |  |
| Completion Date |  |
| Test Case Steps | 1. Go to <https://dissertation-smart-home-weather-dashboard.onrender.com/> 2. [View the temperature and humidity](https://dissertation-smart-home-weather-dashboard.onrender.com/). Click the C/F toggle switch on the Temperature section to convert the temperature between Celsius and Fahrenheit. 3. Click the button links to ‘Details’ for both Temperature and Humidity. 4. Click the link to Weather in Navigation Bar. |
| Expected Result | Successfully loaded the Smart House / Weather Dashboard and display the outdoor temperature and humidities. Clicking the C/F toggle switch in the temperature section will convert the temperature between Celsius and Fahrenheit. Clicking the temperature Details button will take you to the temperature details page. Clicking the humidity Details button will take you to the humidity details page. Clicking the weather button will take you to the weather dashboard page. |
| Actual Outcome (Your answer here) |  |
| Status (Pass or Fail) |  |
| URL | [https://dissertation-smart-home-weather-dashboard.onrender.com/](https://dissertation-smart-home-weather-dashboard.onrender.com/View the temperature and humidity)  [View the temperature and humidity](https://dissertation-smart-home-weather-dashboard.onrender.com/View the temperature and humidity) |
| Please put screenshots here: |  |
| Screen Size |  |
| Operating system on your device |  |
| Browser(s) on your device used to access the Smart House Weather Dashboard. |  |
| Notes |  |

# Temperature Page

|  |  |
| --- | --- |
| Label | Value |
| Name | Temperature |
| Description | View the indoor and outdoor temperature of the Digitech Smart House. |
| Reporter (Your Name) |  |
| Completion Date |  |
| Test Case Steps | 1. Go to <https://dissertation-smart-home-weather-dashboard.onrender.com/temperature> 2. View the indoor and outdoor temperatures of the Smart House. 3. Click the C/F toggle switches to convert both temperatures between Celsius and Fahrenheit. 4. View the hourly temperature graph. 5. View the daily temperature graph. 6. View the monthly temperature graph. 7. Click the back button (desktop devices only) 8. Use the back button on browser if back button on page is not visible due to small display or ow screen resolution. 9. Swipe back go back to previous screen (mobile devices only) |
| Expected Result | Indoor and outdoor temperatures are available. Clicking the C/F toggle switches will change the temperatures between Celsius and Fahrenheit. Hourly temperature shows hourly temperatures over the last 24 hours as a bar chart. Daily temperature graph shows the daily temperatures over last 30 days as a line graph. Monthly temperature shows monthly temperatures over the last 12 months from January to December as a line graph. Back button takes you back to home (landing) page (desktop devices only). |
| Actual Outcome (Your answer here) |  |
| Status (Pass or Fail) |  |
| URL | <https://dissertation-smart-home-weather-dashboard.onrender.com/temperature> |
| Please put screenshots here: |  |
| Screen Size |  |
| Operating system on your device |  |
| Browser(s) on your device used to access the Smart House Weather Dashboard. |  |
| Notes |  |

# Humidity Page

|  |  |
| --- | --- |
| Label | Value |
| Name | Humidity |
| Description | View the indoor and outdoor temperature of the Digitech Smart House. |
| Reporter (Your Name) |  |
| Completion Date |  |
| Test Case Steps | 1. Go to <https://dissertation-smart-home-weather-dashboard.onrender.com/humidity> 2. View the indoor and outdoor humidities of the Smart House. 3. View the hourly humidity graph. 4. View the daily humidity graph. 5. View the monthly humidity graph. 6. Click the back button (desktop devices only) 7. Use the back button on browser if back button on page is not visible due to small display or ow screen resolution. 8. Swipe back go back to previous screen (mobile devices only) |
| Expected Result | Indoor and outdoor humidities are available. Hourly humidity graph shows hourly humidities over the last 24 hours as a bar chart. Daily humidity graph shows the daily humidities over last 30 days as a line graph. Monthly humidity shows monthly humidities over the last 12 months from January to December as a line graph. Back button takes you back to home (landing) page (desktop devices only). |
| Actual Outcome (Your answer here) |  |
| Status (Pass or Fail) |  |
| URL | <https://dissertation-smart-home-weather-dashboard.onrender.com/humidity> |
| Please put screenshots here: |  |
| Screen Size |  |
| Operating system on your device |  |
| Browser(s) on your device used to access the Smart House Weather Dashboard. |  |
| Notes |  |

# Weather Dashboard

|  |  |
| --- | --- |
| Label | Value |
| Name | Weather Dashboard |
| Description | View the weather dashboard. |
| Reporter (Your Name) |  |
| Completion Date |  |
| Test Case Steps | 1. Go to <https://dissertation-smart-home-weather-dashboard.onrender.com/weather> 2. View all parts of the weather dashboard. 3. Toggle between Celsius and Fahrenheit using the C/F toggle switches in Temperature and Feels Like. 4. Toggle between mph and km/h on the wind section of the dashboard. 5. Toggle between miles and kilometers in the visibility section of the dashboard. 6. View time, clock, date and calendar (desktop devices only – not available on mobile devices). 7. View hourly weather forecast. 8. View daily weather forecast. 9. Click the “View Full Weather Map” button beneath the map on the weather dashboard. |
| Expected Result | Successfully loads the weather dashboard containing:   * Temperature that can be toggled/converted between Celsius and Fahrenheit. * Current Weather conditions for Ipswich (NOT your local area) * Feels Like temperature that can be toggled/converted between Celsius and Fahrenheit. * UV Index, * Humidity, * Wind speed that can be toggled/converted between mph/kmh, wind direction description and as a compass. * Air pressure * Air pollution level * Precipitation chance/probability * Pollen count for Grass, Trees and Weeds. * Visibility, can be toggled between miles and kilometers, * Weather map (precipitation) with working link to full weather maps page.   Successfully loads time, animated clock displaying correct time, date, calendar (desktop devices only – does not show on mobile devices.  Hourly (24 hours) weather forecast displaying time, temperature and weather conditions.  Daily weather (5 days) forecast showing day, temperature, weather conditions, precipitation chance, wind speed, wind direction and humidity. |
|  |  |
| Status (Pass or Fail) |  |
| URL | <https://dissertation-smart-home-weather-dashboard.onrender.com/weather> |
| Please put screenshots here: |  |
| Screen Size |  |
| Operating system on your device |  |
| Browser(s) on your device used to access the Smart House Weather Dashboard. |  |
| Notes |  |

# Weather Maps

|  |  |
| --- | --- |
| Label | Value |
| Name | Weather Maps |
| Description | View the weather maps for the Digitech Smart House in Martlesham, Ipswich. |
| Reporter (Your Name) |  |
| Completion Date |  |
| Test Case Steps | 1. Go to <https://dissertation-smart-home-weather-dashboard.onrender.com/weathermaps> 2. View the precipitation map, zoom and move around the map. 3. View the temperature map, zoom and move around the map. 4. View the wind map, zoom and move around the map. 5. View the air quality map, zoom and move around the map. 6. View the radar map, zoom and move around the map. 7. Click the back button to go back to the main weather dashboard page (desktop devices only) |
| Expected Result | All five maps successfully load.  Precipitation map shows precipitation and precipitation type for Digitech Smart House location (Martlesham, Ipswich).  Temperature map shows temperature for Digitech Smart House location (Martlesham, Ipswich).  Wind Map shows wind for Digitech Smart House location (Martlesham, Ipswich).  Air Quality Map shows air quality for Digitech Smart House location (Martlesham, Ipswich).  Radar Map shows radar for Digitech Smart House location (Martlesham, Ipswich).  Clicking the back button takes you back to the main weather dashboard page. |
| Actual Outcome (Your answer here) |  |
| Status (Pass or Fail) |  |
| URL | <https://dissertation-smart-home-weather-dashboard.onrender.com/weathermaps> |
| Please put screenshots here: |  |
| Screen Size |  |
| Operating system on your device |  |
| Browser(s) on your device used to access the Smart House Weather Dashboard. |  |
| Notes |  |

# User Manual

## Access home page of Smart House Weather Dashboard

1. Go to <https://dissertation-smart-home-weather-dashboard.onrender.com/>

This page shows the outdoor temperature and humidity of the Digitech Smart House.

A screenshot of a computer

Description automatically generated

1. Click the toggle switch on the Outdoor Temperature tile to convert temperature between Celsius and Fahrenheit.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

## View Temperature Details

1. Click the Details button on the Outdoor Temperature tile.