# Test Log

The purpose of this document is to ensure that the solution, especially the validation, is working correctly. This will help to ensure that our solution is secure and that it cannot be exploited. Whilst this test log may broadcast some functionality, particularly in interest to validation, it is worth noting that a separate observation will be recorded in task 3a primarily to demonstrate the solution’s functionality.

Additionally, this document will contain multiple types of testing. There will be validation testing to ensure that invalid data is rejected and valid data is accepted, accessibility testing to ensure the solution is WCAG compliant, and functionality testing to ensure the solution works as expected.

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# Validation Testing

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| --- | --- | --- | --- | --- |
| **Description of test** | **Test data to be used (if required)** | **Expected outcome** | **Actual Output** | **Comments and intended actions** |
| Value test for email in register action | jamieh | Data is rejected as it does not contain an @ symbol |  | Complete |
| Value test for email in register action | jamieh@gmail | Data is rejected as it does not contain a top-level domain (.com) |  | If the website is deployment, an email will be sent to this address. As this isn’t a valid email, the account cannot be confirmed / registered.  Complete. |
| Value test for email in register action | jamieh@gmail.com | Data is accepted |  | Complete |
| Range test for first name in register action | J | Data is rejected as it is less than minimum length (2 characters) |  | Complete |
| Range test for first name in register action | Ja | Data is accepted as it is minimum length (2 characters) |  | Complete |
| Range test for first name in register action | JamieLoremIpsumDolor | Data is accepted as it is maximum length (20 characters) |  | Complete |
| Range test for first name in register action | JamieLoremIpsumDolore | Data is rejected as it is more than maximum length (20 characters) |  | Complete |
| Range test for last name in register action | H | Data is rejected as it is less than minimum length (2 characters) |  | Complete |
| Range test for last name in register action | Ho | Data is accepted as it is minimum length (2 characters) |  | Complete |
| Range test for last name in register action | HodgsonLoremIpsumDol | Data is accepted as it is maximum length (20 characters) |  | Complete |
| Range test for last name in register action | HodgsonLoremIpsumDolo | Data is rejected as it is more than maximum length (20 characters) |  | Complete |
| Range test for password in register action | pass | Data is rejected as it is less than minimum length (6 characters) |  | Complete |
| Value test for password in register action | password | Data is rejected as it does not contain symbol, upper-case, or numbers. |  | Complete |
| Value test for password in register action | Passw0rd | Data is rejected as it does not contain symbol |  | Complete |
| Value and range test for password in register action | P@ssw0rd | Data is accepted as it is greater than minimum length and contains a lower-case, upper-case, symbol and number. |  | Complete |
| Value test for confirm password in register action | P@SSw0rd! | This is also a valid password but assuming we signed up with the first valid password, these passwords would not match, hence it is rejected. |  | Complete |
| Value test for confirm password in register action | P@ssw0rd | Value is accepted as it matches the original valid password we signed up with. |  | Complete |
| Value test for email address in log in action | hodgsonj@gmail.com | Value does not match the email we used in the register action; hence it is rejected. |  | Complete |
| Value test for email address in log in action | jamieh@gmail.com | Value is accepted should the password be correct as it matches the email which we used in the register action. |  | Complete |
| Value test for password in log in action | P4ssw@rd | Value is rejected as it does not match the password which we used in the register action. |  | Complete |
| Value test for email address in log in action | P@ssw0rd | Value is accepted as it matches the password which we used in the register action. |  | Complete |
| Accuracy test for weather API | Latitude: 52.040623  Longitude: -0.759417 | Values provided for current weather should be somewhat like other providers and services. |  | Complete |
| Accuracy test for air pollution API | Latitude: 52.040623  Longitude: -0.759417 | Values provided for air pollution should be somewhat like other providers and services. |  | Difficult to find AQI / pollutant concentrations for our exact area, data will be assumed to be accurate as per the previous accuracy test. Complete. |
| Range test for calories in track health action | -1 | Value should be rejected as it is below the minimum value (0). |  | Complete. |
| Range test for calories in track health action. | 0 | Value should be accepted as it is the minimum value (0). |  | Complete. |
| Range test for calories in track health action | 50000 | Value should be accepted as it is the maximum value (50000) |  | Complete. |
| Range test for calories in track health action | 50001 | Value should be rejected as it is above the maximum value (50000) |  | Complete. |
| Range test for steps in track health action. | -1 | Value should be rejected as it is below the minimum value (0). |  | Complete. |
| Range test for steps in track health action | 0 | Value should be accepted as it is the minimum value (0). |  | Complete. |
| Range test for steps in track health action. | 200000 | Value should be accepted as it is the maximum value (200000) |  | Complete. |
| Range test for steps in track health action | 200001 | Value should be rejected as it is above the maximum value (200000) |  | Complete. |
| Range test for cups of water in track health action. | -1 | Value should be rejected as it is below the minimum value (0). |  | Originally this test was not included but due to complications, the water cup system does not add to the current amount but instead overwrites it.  Complete. |
| Range test for cups of water in track health action | 0 | Value should be accepted as it is the minimum value (0). |  | Originally, this test was not included but due to complications, the water cup system does not add to the current amount but instead overwrites it.  Complete. |
| Range test for cups of water in track health action. | 100 | Value should be accepted as it is the maximum value (100) |  | Originally, this test was not included but due to complications, the water cup system does not add to the current amount but instead overwrites it.  Complete. |
| Range test for cups of water in track health action | 101 | Value should be rejected as it is above the maximum value (101) |  | Originally, this test was not included but due to complications, the water cup system does not add to the current amount but instead overwrites it.  Complete. |
| Range test for title in add advice action | Lore | Value is rejected as it is less than minimum length (5 characters) |  | Complete. |
| Range test for title in add advice action | Lorem | Value is accepted as it is minimum length (5 characters) |  | Complete. |
| Range test for title in add advice action. | Lorem ipsum dolor sit amet, consectetur adipiscing elit. In tempus lorem sit amet pharetra tincidunt | Value is accepted as it is maximum length (50 characters) |  | Complete. |
| Range test for title in add advice action. | Lorem ipsum dolor sit amet, consectetur adipiscing elit. In tempus lorem sit amet pharetra tincidunt. | Value is rejected as it is more than maximum length (50 characters) |  | Complete. |
| Range test for temperature in add advice section | -91C | Value should be rejected as it is below the minimum value (-90). |  | The minimum value is approximately the coldest recorded temperature on Earth. This could change in the future.  Complete. |
| Range test for temperature in add advice section | -90C | Value should be accepted as it is the minimum value (-90). |  | The minimum value is approximately the coldest recorded temperature on Earth. This could change in the future.  Complete. |
| Range test for temperature in add advice section | 60C | Value should be accepted as it is the maximum value (60) |  | The maximum value is approximately the hottest recorded temperature on Earth. This could change in the future.  Complete. |

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| --- | --- | --- | --- | --- |
| Range test for temperature in add advice section | 61C | Value should be rejected as it is above the maximum value (61) |  | The maximum value is approximately the hottest recorded temperature on Earth. This could change in the future.  Complete. |

# Accessibility Testing

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| --- | --- | --- | --- | --- |
| **Description of test** | **Test data to be used (if required)** | **Expected outcome** | **Actual Output** | **Comments and intended actions** |
| Accessibility test for landing page | Views/Home/Index.cshtml | No errors are detected by the accessibility checker. |  | Complete. |
| Accessibility test for privacy oage | Views/Home/Privacy.cshtml | No errors are detected by the accessibility checker. |  | Complete. |
| Accessibility test for create advice page | Views/Advice/Create.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for delete advice page | Views/Advice/Delete.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for details advice page | Views/Advice/Details.cshtml | No errors are detected by the accessibility checker |  | This would be from the images which the user has uploaded. In a future iteration, we will add an image description field which can be used as alternative text. |
| Accessibility test for edit advice page | Views/Advice/Edit.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for index advice page | Views/Advice/Index.cshtml | No errors are detected by the accessibility checker |  | This would be from the images which the user has uploaded. In a future iteration, we will add an image description field which can be used as alternative text. |
| Accessibility test for my advice page | Views/Advice/MyAdvice.cshtml | No errors are detected by the accessibility checker |  | This would be from the images which the user has uploaded. In a future iteration, we will add an image description field which can be used as alternative text. |
| Accessibility test for create entry page | Views/Health /Create.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for delete entry page | Views/Health/Delete.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for edit entry page | Views/Health /Edit.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for index diary page | Views/Health/Index.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for my diary page | Views/Health /MyHealth.cshtml | No errors are detected by the accessibility checker |  | Complete. |
| Accessibility test for forecast page | Views/Dashboard/Forecast.cshtml | No errors are detected by the accessibility checker |  | Complete |
| Accessibility test for air quality page | Views/Dashboard/AirQuality.cshtml | No errors are detected by the accessibility checker. |  | Complete |