

Bug Number: 1

Severity: High

Bug Title: the 'Number of Units Required' field has no data validation

Web page URL: <https://ensekautomationcandidatetest.azurewebsites.net/Energy/Buy>

Description:

On the 'Buy Energy' page there are three instances of a data entry field named 'Number of Units Required'.

The field is present so users can enter a quantity of an energy type they wish to purchase.

However, the field does not have any field validation and this can result in undesirable behaviour and ultimately poor user experience.

For example, you can enter:

- Text
- Special characters
- Negative numbers
- Numbers larger than the available quantity
- A 0 quantity
- A value that is too large for the system to handle

The most concerning is that it is possible to enter a malicious string, `<script>alert</script>`, used to test for cross site scripting attacks.

Expected result:

I expect only numeric characters between 1 and the maximum available quantity of any specific type of energy to be accepted. All other data types should be prevented, or an error is displayed on selection of 'Buy'

Actual result:

No validation on the 'Number of Units Required' field exists

Steps to reproduce:

1. Open the Edge Browser
2. Navigate to <https://ensekautomationcandidatetest.azurewebsites.net/Energy/Buy>

3. Select the Gas instance of the 'Number of Units Required' field
4. Enter a value that is not between 1 and the maximum quantity of available energy for the Gas energy type
5. Select 'Buy'