Title

The contact page is erroring when visited

Severity

P1

Actual

When I visit the contact page, I am presented with an error image.

Expected

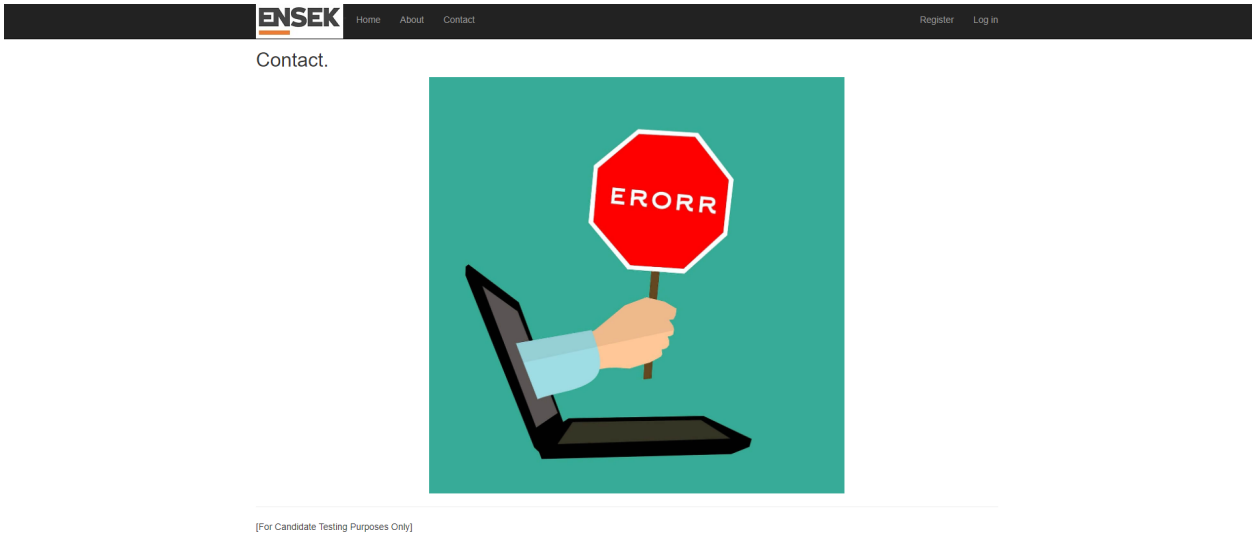
When I navigate to the error page, I should see the page and all its components loaded correctly.

Steps to reproduce

1. Open the application
2. Click on the Contact navbar link or navigate to this link: https://ensekautomationcandidatetest.azurewebsites.net/

Environment

Windows 10/Chrome 112.0.5615.49



Title

Password validation in the register form is not showing the correct message for passwords over 100 characters.

Severity

P3

Actual

When I am creating a new user, and I enter a password that is over 100 characters, then I see the validation message appear saying:
The Password must be at least six characters long. This validation message is incorrect and not useful to the user as their password is over six characters.

Expected

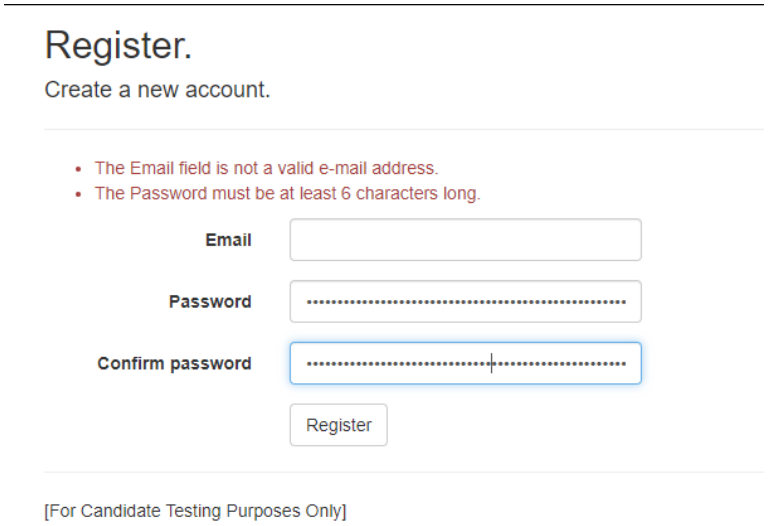
When I am creating a new user, if I enter a password that is over 100 characters, I should see an appropriate error message such as
The Password must not be over 100 characters long.

Steps to reproduce

1. Open the application
2. Navigate to the Register page: https://ensekautomationcandidatetest.azurewebsites.net/Account/Register
3. Enter a password of over 100 characters
4. Click the register button at the bottom of the form

Environment

Windows 10/Chrome 112.0.5615.49


Register.
Create a new account.
The Email field is not a valid e-mail address.
The Password must be at least 6 characters long.
Email
Password
Confirm password
Register
[For Candidate Testing Purposes Only]

Title

Register and Login forms are causing the application to crash without any error handling.

Severity

P1

Actual

When I am on the login or register page and submit either form, the application hangs for ~30 seconds and gives an error to the page with a full stack trace.
It appears that the application cannot reach the SQL database and is therefore timing out when trying to connect and throwing an error.

Expected

When I Register a new user or Login into the application, the application should not error, and I should not be blocked from registering a new user or logging in.

Steps to reproduce

1. Open the application
2. Navigate to the register page
3. Fill in the form and click the register button
   OR
1. Open the application
2. Navigate to the login page
3. Enter user details and click the Login button

Environment

Windows 10/Chrome 112.0.5615.49

ENSEK Home About Contact Register Log

Error

An error occurred while processing your request

A network-related or instance-specific error occurred while establishing a connection to SQL Server. The server was not found or was not accessible. Verify that the instance name is correct and that SQL Server is configured to allow remote connections. (provider: SQL Network Interfaces, error: 26 - Error Locating Server/Instance Specified)

at System.Data.SqlClient.SqlInternalConnectionTds..ctor(DbConnectionPoolIdentity identity, SqlConnectionString connectionOptions, SqlCredential credential, Object providerInfo, String newPassword, SecureString newSecurePassword, Boolean redirectedUserInstance, SqlConnectionString userConnectionOptions, SessionData reconnectSessionData, DbConnectionPool pool, String accessToken, Boolean applyTransientFaultHandling, SqlAuthenticationProviderManager sqlAuthProviderManager) at System.Data.SqlClient.SqlConnectionFactory.CreateConnection(DbConnectionOptions options, DbConnectionPoolKey poolKey, Object poolGroupProviderInfo, DbConnectionPool pool, DbConnection owningConnection, DbConnectionOptions userOptions) at System.Data.ProviderBase.DbConnectionFactory.CreatePooledConnection(DbConnectionPool pool, DbConnection owningObject, DbConnectionOptions options, DbConnectionPoolKey poolKey, DbConnectionOptions userOptions) at System.Data.ProviderBase.DbConnectionPool.CreateObject(DbConnection owningObject, DbConnectionOptions userOptions, DbConnectionInternal oldConnection) at System.Data.ProviderBase.DbConnectionPool.UserCreateRequest(DbConnection owningObject, DbConnectionOptions userOptions, DbConnectionInternal oldConnection) at System.Data.ProviderBase.DbConnectionPool.TryGetConnection(DbConnection owningObject, UInt32 waitForMultipleObjectsTimeout, Boolean allowCreate, Boolean onlyOneCheckConnection, DbConnectionOptions userOptions, DbConnectionInternal& connection) at System.Data.ProviderBase.DbConnectionPool.TryGetConnection(DbConnection owningObject, TaskCompletionSource`1 retry, DbConnectionOptions userOptions, DbConnectionInternal& connection) at System.Data.ProviderBase.DbConnectionFactory.TryGetConnection(DbConnection owningConnection, TaskCompletionSource`1 retry, DbConnectionOptions userOptions, DbConnectionInternal oldConnection, DbConnectionInternal& connection) at System.Data.ProviderBase.DbConnectionInternal.TryOpenConnectionInternal(DbConnection outerConnection, DbConnectionFactory connectionFactory, TaskCompletionSource`1 retry, DbConnectionOptions userOptions) at System.Data.ProviderBase.DbConnectionClosed.TryOpenConnection(DbConnection outerConnection, DbConnectionFactory connectionFactory, TaskCompletionSource`1 retry, DbConnectionOptions userOptions) at System.Data.SqlClient.SqlConnection.TryOpenInner(TaskCompletionSource`1 retry) at System.Data.SqlClient.SqlConnection.TryOpen(TaskCompletionSource`1 retry) at System.Data.SqlClient.SqlConnection.Open() at System.Data.Entity.Infrastructure.Interception.DbConnectionDispatcher.<Open>b__36(DbConnection t, DbConnectionInterceptionContext c) at System.Data.Entity.Infrastructure.Interception.InternalDispatcher`1.Dispatch[TTarget,TInterceptionContext](TTarget target, Action`2 operation, TInterceptionContext interceptionContext, Action`3 executing, Action`3 executed) at System.Data.Entity.Infrastructure.Interception.DbConnectionDispatcher.Open(DbConnection connection, DbInterceptionContext interceptionContext) at System.Data.Entity.SqlServer.SqlProviderServices.<>c__DisplayClass33.<UsingConnection>b__32() at System.Data.Entity.SqlServer.DefaultSqlExecutionStrategy.<>c__DisplayClass1.<Execute>b__0() at System.Data.Entity.SqlServer.DefaultSqlExecutionStrategy.Execute[TResult](Func`1 operation) at System.Data.Entity.SqlServer.DefaultSqlExecutionStrategy.Execute(Action operation) at System.Data.Entity.SqlServer.SqlProviderServices.UsingConnection(DbConnection sqlConnection, Action`1 act) at System.Data.Entity.SqlServer.SqlProviderServices.UsingMasterConnection(DbConnection sqlConnection, Action`1 act) at System.Data.Entity.SqlServer.SqlProviderServices.CreateDatabaseFromScript(Nullable`1 commandTimeout, DbConnection sqlConnection,

Title

No validation Number of Units required when buying energy

Severity

P1

Actual

When on the Buy Energy page of the application, the number of units a user can purchase has no validation; this leads to several issues highlighted below:

- Users can buy 0 units. This does nothing and should be validated against
- Can input a negative number into the unit's input. This breaks the logic of the application and adds to the quantity of units available, causing those values to become incorrect and greater than what is expected.
- Users can buy more units than are available.
- Users are able to enter text/decimals into the input field, which will cause the application to crash when submitted.

These bugs have been bundled together as the fix for each should be the same, adding validation to the input to limit the amount/ type the user can input.

Expected

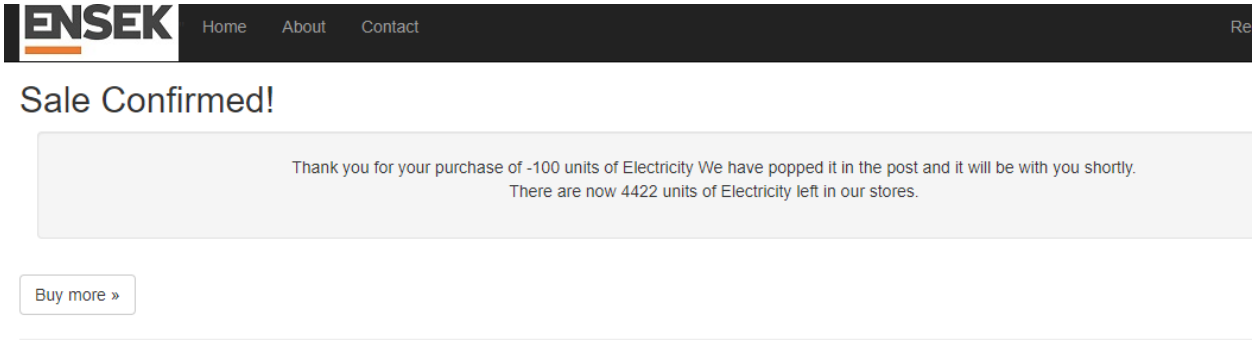
When on the buy energy page, users should only be able to enter valid numbers in the Number of Units Required input field.
This includes limiting the range between the 0 and the max quantity of units available as well as ensuring that only numbers can be entered.

Steps to reproduce

1. Navigate to the Buy Energy page
2. Enter one of the following values:
    a. 0
    b. -10
    c. “test”
    d. Any number greater than the energy type maximum amount
3. Click buy on the amount purchased

Environment

Windows 10/Chrome 112.0.5615.49


ENSEK
Home
About
Contact
Re
Sale Confirmed!
Thank you for your purchase of -100 units of Electricity We have popped it in the post and it will be with you shortly.
There are now 4422 units of Electricity left in our stores.
Buy more »

Title

On the Buy Energy page, the discount offered in the image differs from the one offered in the page text.

Severity

P3

Actual

When visiting the buy page, two different discounts are presented, 20% in the image and 30% in the text; this can confuse the user as it is unclear what discount they will be given.

Expected

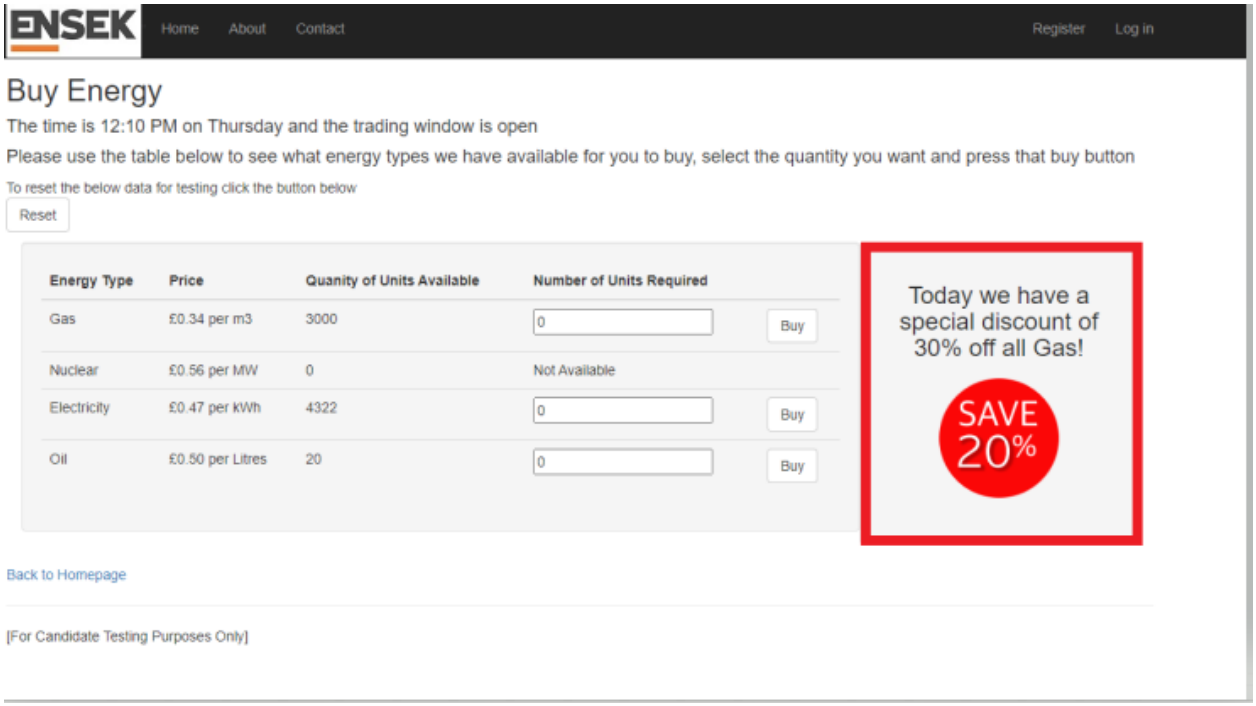
Discount text and image should match up to show a consistent number.

Steps to reproduce

1. Visit the Buy Energy page
2. View the discount next to the Buy Energy table

Environment

Windows 10/Chrome 112.0.5615.49



Title

The time shown on the Buy Energy page is not localised

Severity

P3

Actual

The time shown on the Buy Energy page is in UTC and is incorrect when in a different timezone, such as BST.

Expected

The time on the Buy Energy page should be localised and show the correct value for the region the User uses, e.g. BST.

Steps to reproduce

1. Set your system time to a timezone that is different from UTC
2. Open the application
3. Navigate to the Buy Energy Page

Environment

Windows 10/Chrome 112.0.5615.49

Title

Lack of erroring handling for invalid parameters in the Sale Confirmed page

Severity

P3

Actual

When on the sale confirmed page, the application reflects the URL parameters onto the page. This has the effect of the user being able to write whatever they want into each parameter. There are currently two scenarios found through testing that would need handling:

- Invalid data types - enter a text value into the amountBought or the amountLeft parameters
- Dangerous data types - any possible XSS payload that ASP.net picks up causes it to throw an error, this correctly throws an error, but this is unhandled.

Expected

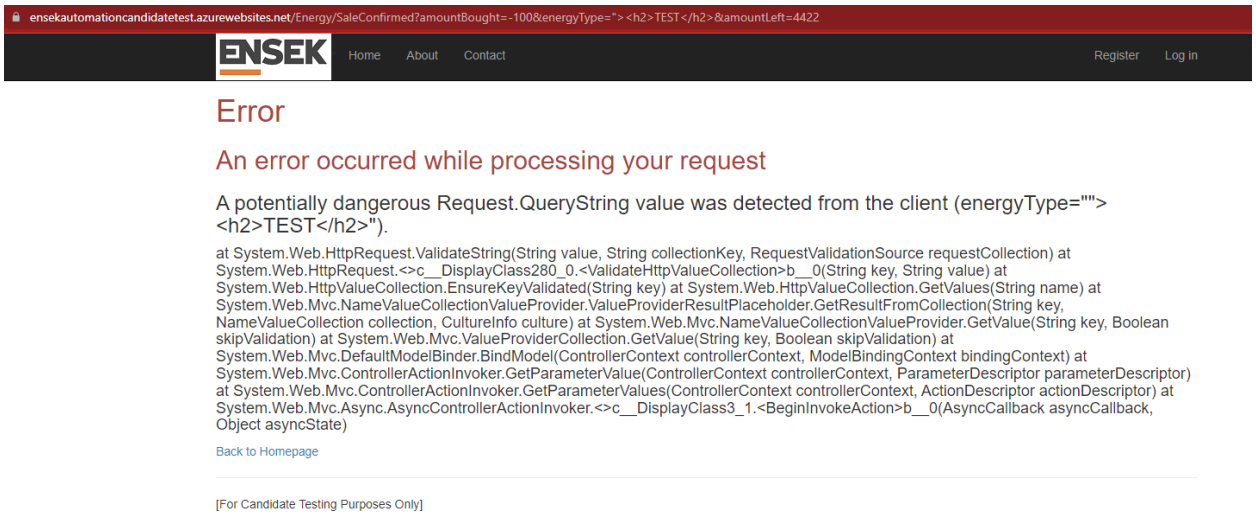
When the application receives an invalid value in the query parameters of the Sale Confirmation page, then there should be a handled error page; this is to improve the UX as well as mitigate potential security issues that the error log may leak.

Steps to reproduce

1. Open the application
2. Navigate to the Energy Confirmation page by buying some energy or via link: https://ensekautomationcandidatetest.azurewebsites.net/Energy/SaleConfirmed?amountBought=1000&energyType=Gas&amountLeft=2000
3. enter a text value into the amountBought or the amountLeft parameters an example: https://ensekautomationcandidatetest.azurewebsites.net/Energy/SaleConfirmed?amountBought=1000&energyType=Gas&amountLeft=TEST
4. Alternernativly enter a dangerous payload into the energyType field: https://ensekautomationcandidatetest.azurewebsites.net/Energy/SaleConfirmed?amountBought=1000&energyType=%3Ch2%3Etest%3C/h2%3E&amountLeft=TEST

Environment

Windows 10/Chrome 112.0.5615.49


ensekautomationcandidatetest.azurewebsites.net/Energy/SaleConfirmed?amountBought=-100&energyType="><h2>TEST</h2>&amountLeft=4422
ENSEK
Home
About
Contact
Register
Log in
Error
An error occurred while processing your request
A potentially dangerous Request.QueryString value was detected from the client (energyType="">
<h2>TEST</h2>").
at System.Web.HttpRequest.ValidateString(String value, String collectionKey, RequestValidationSource requestCollection) at System.Web.HttpRequest.<>c__DisplayClass280_0.<ValidateHttpValueCollection>b__0(String key, String value) at System.Web.HttpValueCollection.EnsureKeyValidated(String key) at System.Web.HttpValueCollection.GetValues(String name) at System.Web.Mvc.NameValueCollectionValueProvider.ValueProviderResultPlaceholder.GetResultFromCollection(String key, NameValueCollection collection, CultureInfo culture) at System.Web.Mvc.NameValueCollectionValueProvider.GetValue(String key, Boolean skipValidation) at System.Web.Mvc.ValueProviderCollection.GetValue(String key, Boolean skipValidation) at System.Web.Mvc.DefaultModelBinder.BindModel(ControllerContext controllerContext, ModelBindingContext bindingContext) at System.Web.Mvc.ControllerActionInvoker.GetParameterValue(ControllerContext controllerContext, ParameterDescriptor parameterDescriptor) at System.Web.Mvc.ControllerActionInvoker.GetParameterValues(ControllerContext controllerContext, ActionDescriptor actionDescriptor) at System.Web.Mvc.Async.AsyncControllerActionInvoker.<>c__DisplayClass3_1.<BeginInvokeAction>b__0(AsyncCallback asyncCallback, Object asyncState)
Back to Homepage
[For Candidate Testing Purposes Only]