

Software Engineer - Take Home exercise

Tech ops reported web page for creating new accounts would hang when invalid characters were used in passwords. This was solved by:

- reformatting the output of validate-user and making it to display the errors function (validate-user.js).
- Making the 'Create account' button (create-account.js) reset after receiving server side validation failures.

Recommendation

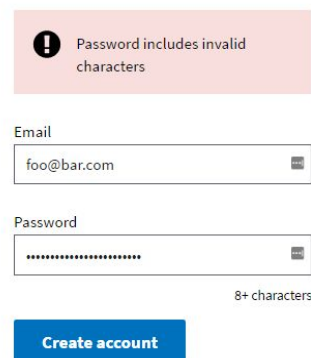
- Let clients know what characters are invalid inputs, for example by displaying a message saying “[/=?<>()""'\&]/ may not be used” in the Password field before the user clicks on it
- Update the '8+ characters' footnote to say what characters may not be included
- Have the client side (create-account.js) match the server side (validate-user.js) to also check the password for invalid characters.
- Give password validations a separate file that can be imported by validate-user.js and create-account.js so that only one file needs to be updated instead of two

Here are images from before and after implementing my solution.

Create account



Create account



Response to client


Hello,

Thank you for informing us of the problem. These characters are invalid in the password: =, ?, <, >, (,), ', ", \, /, \ and &. Our solutions was to

- Have the 'Create account' button reset after this error
- Add an error message informing the user of the problem

Now, when an invalid password is put in the user will be informed and can correct the mistake. This is what users will see when using invalid characters in their password.

Create account

 Password includes invalid characters

Email

Password

8+ characters

Create account

Best, XXX