

# Airtable new user sign up flow assignment - Neil Dutta

## Test Cases in Cypress.io

Using Cypress.io the tests will check each page of the sign up flow.

(1.) AirtableSignUpTest.js - Highest Priority - this is an end to end test and must be tested.

Navigate to the sign up URL

Random first name generated

Random first name generated

Random email address generated

Password is filled out

Account is registered

(2) Emailinuse.js - Medium priority - check that an existing email address can't be reused to register an Airtable account multiple times.

(3) Oneletternametest.js - Low Priority - Tests that an account is created using 1 letter first name and last name.

(4) MaximumLetterTest.js - Low Priority - Tests a theory of the maximum length using 52 characters since there should be some upper limit for the name.

(5) SpecialCharacters.js - High Priority - Test uses special characters in first and last name. This validation test is important because only alphabetical characters should be used.

(6) BlankPassword.js - Low Priority - Tests that users can enter passwords which contain 8 spaces.

## Product Improvements identified

(1) User can register without entering a last name **LOW**

(2) User can register using special characters such as !@#\$% for first name and !@#\$% for last name **HIGH**

(3) Page should ask user to confirm their password in a second box to make sure it matches **MEDIUM**

(4) User can sign up for an account using only 8 blank spaces in the password and it is permitted and an account can be created **HIGHEST**

(5) First name or last name should require at least two or more characters and maximum 50 characters. **HIGH**

(6) After registering an account, User can click on Continue without selecting an option from the "Which best describes you" from the down menu on the page. **HIGH**

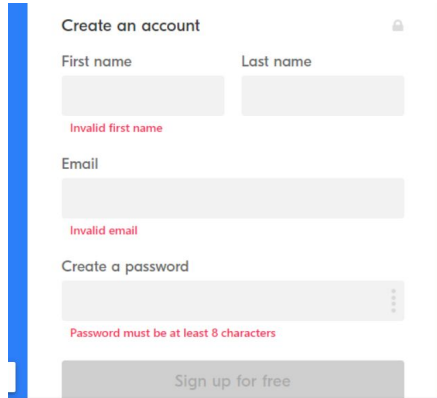
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(7) No password requirements displayed for the password field. Displaying the password requirements would help users understand how to create secure passwords, the color indicator is very subtle and users only see this if they hover over the color. **HIGH**

## Summary

I believe that by improving input validation on the sign up flow, it will streamline the process by avoiding invalid input, by making sure users have the correct name entered, it adds value when reaching out to them via email using their first and last names, customers are more likely to be engaged in the product. Also by ensuring that passwords are entered correctly during sign up it reduces the effort in accessing their accounts.

## Table of details of Improvements

<p><b>1. (a)</b> (1) User can register without entering a last name <b>High</b></p> <p><i>Description</i></p> <p>Users can enter just a first name without entering last name, but are still allowed to proceed to create an account. Another solution is to display a validation error message saying "Only first name has been entered, Please enter Last Name". By making the last name mandatory, it is easier to identify customers and build a rapport with them. It is also difficult to identify customers if they only have a first name registered.</p>
<p><u>Steps to reproduce</u></p> <p>Fill out first name Leave Last name blank</p> <p><u>Expected</u></p> <p>There should be a validation error for Invalid first name</p> <p><u>Actual</u></p> <p>User can create account without entering a last name</p>
<p><u>Severity</u></p> <p>This improvement is High severity. For audit purposes the sign up flow should request a Last name.</p>
<p><b>Screenshot</b></p> 

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2. (a) User can register using special characters such as !@#\$\$% for first name and !@#\$\$% for last name **HIGH Priority**

Users can enter special characters in first name and last name fields but are still allowed to proceed to create an account. An alternate solution is to warn the user "Please check the name entered, it does not look correct"  
Name fields should only allow hyphens and apostrophes.

### Steps to reproduce

Fill out first name with special characters

Fill out last name with special characters

### Expected

There should be a validation error for both fields

### Actual

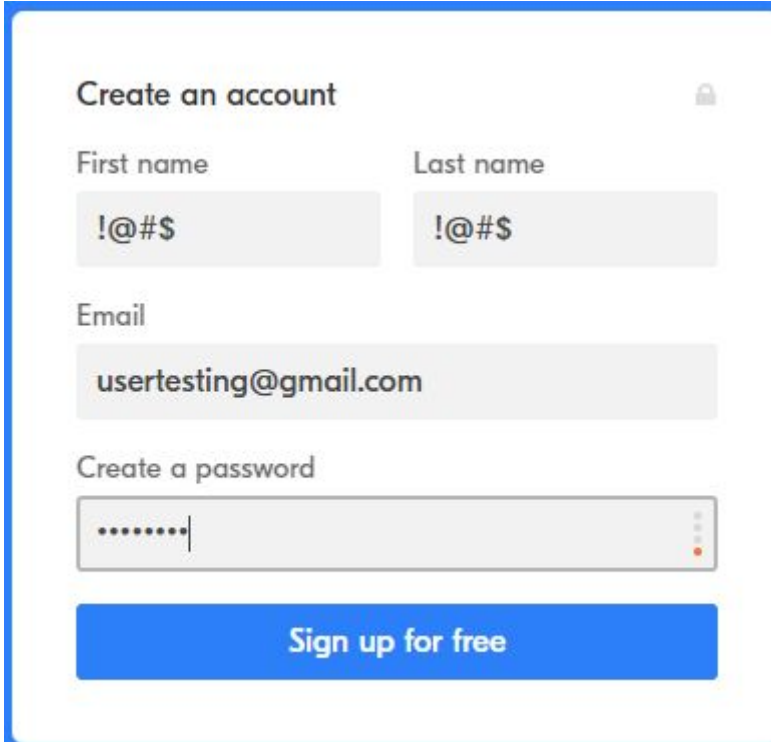
User can create account entering special characters

### Severity

This improvement is **High** priority.

For security purposes the sign up flow should not allow special characters, these can often break functionality in certain cases. Only hyphens and apostrophes should be acceptable in these fields.

Screenshot



The screenshot shows the 'Create an account' form in Airtable. The form has a title 'Create an account' with a lock icon. It contains four input fields: 'First name', 'Last name', 'Email', and 'Create a password'. The 'First name' and 'Last name' fields both contain the special characters '!@#\$. The 'Email' field contains 'usertesting@gmail.com'. The 'Create a password' field has a masked password '.....'. A blue button labeled 'Sign up for free' is at the bottom.

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3. (a) Page should ask the user to confirm their password in a second box to make sure it matches or it is also possible to simply use the Show/Hide Eye icon toggle for the password field so the user can be sure they entered the correct password of their choice.

Expected

Password should be entered twice to confirm it matches, in case the user entered an incorrect password of their choice.

Actual

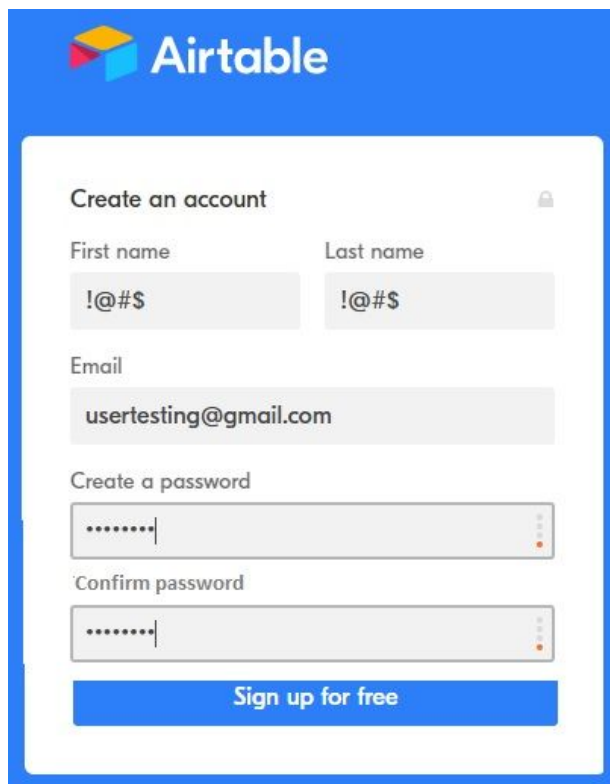
User only enters password once

Severity

This improvement is **LOW** priority.

For efficiency purposes the sign up flow should make the user confirm their password this way they do not enter a character unintentionally and they need to reset their password. An alternative is to use the reveal eye icon which unmask the password so that they can check the password entered.

Screenshot



The screenshot shows the Airtable sign-up interface. At the top is the Airtable logo. Below it is a white card titled 'Create an account' with a lock icon. The form includes fields for 'First name' and 'Last name', both containing placeholder text '!@#\$. Below these is an 'Email' field with the placeholder 'usertesting@gmail.com'. Then there are two password fields: 'Create a password' and 'Confirm password', both containing placeholder dots. A blue 'Sign up for free' button is at the bottom.

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(4) User can sign up for an account using only 8 blank spaces in the password and it is permitted and an account can be created **HIGHEST**

4. (a) Users can enter 8 spaces in the password. In most cases this can break functionality when using a password like this which consists only of spaces.

Expected

Password field should check that the user has entered different characters.

Actual

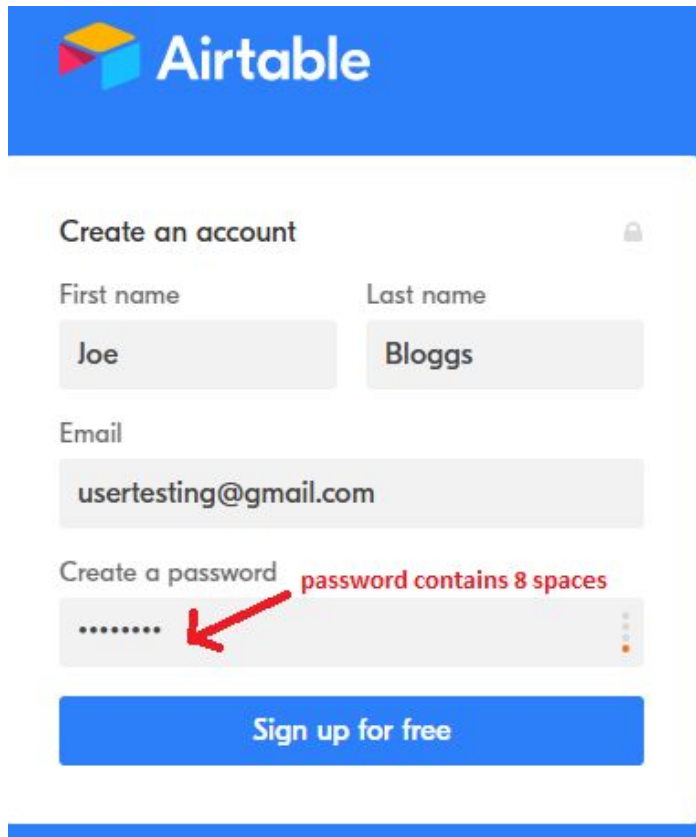
User only enters password once

Severity

This improvement is **HIGH** priority.

For efficiency purposes the sign up flow should make the user confirm their password this way they do not enter a character unintentionally and they need to reset their password.

Screenshot



The screenshot shows the Airtable sign-up form. At the top is the Airtable logo. Below it is the heading "Create an account" with a lock icon. The form has fields for "First name" (containing "Joe"), "Last name" (containing "Bloggs"), and "Email" (containing "usertesting@gmail.com"). Below these is a "Create a password" field. The password field contains eight dots, and a red arrow points to it from the right. To the right of the password field, there is a red error message that says "password contains 8 spaces". At the bottom of the form is a blue button that says "Sign up for free".

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(5) First name or last name should require at least two or more characters.

**5. (a)** Page should ask users to enter at least 2 or more characters for both the first name and last name fields. The maximum length is commonly accepted at 50 characters.

Expected

The form should ask users to enter at least 2 characters for first name

The form should ask users to enter at least 2 characters for last name.

Actual

Users can create an account using only 1 letter for first name and 1 letter for last name.

Severity

This improvement is **HIGH** priority.

For security purposes the sign up flow should make the user enter at least 2 characters for both first name and last name. This is the general accepted standard for name fields.

Or an alternate solution is to display a validation message saying You have entered only 1 character for name, please check First Name field.

Screenshot



Create an account



Sign up with Google

or

First name

Last name

X

Y

Email

Onelettertest@testmail.net

Create a password

.....



Loading

By creating an account, you agree to the [Terms of Service](#).

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6. (a) Users can click continue on the “Tell us a bit about yourself” page before they have selected any of the options from the dropdown list. The button should not allow user to continue or It should display a validation message like “Please select an option from the list below”

Expected

It should display a validation message like “Please select an option from the list below:

Actual

The button shows that it is disabled but the user can click on it to proceed.

Severity

This improvement is **HIGH** priority.

The reason this is rated as high priority is because the user needs to fill out their demographic information in order to be served better and allowing the users to proceed without selection from the dropdown box value is not optimal.

Screenshot

WELCOME, X

### Tell us a bit about yourself.

This will help us figure out the best way to get you started.

Which best describes you?

Select an option ▼

Continue

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7. (a) No password requirements displayed for the password field. Displaying the password requirements would help users understand how to create secure passwords, the color indicator is very subtle and users only see this if they hover over the color. **Medium**

Expected

It should display a validation message like "Please select an option from the list below:

Actual

Password field only tells the user the minimum number of characters is 8.

Severity

This improvement is **Medium** priority.

The reason this is rated as medium priority is because I think it would help the user to know what the password requirements are. Having a weak password leads to accounts being compromised. Having some basic password text displayed is a simple change to incorporate on this page. An even more valuable alternate solution is to have the various password help texts appear and disappear as the criteria is fulfilled by the text entered into the box. The color dots tell the user if their password is weak or strong but not how to create a strong password.

Screenshot

Create a password

.....

Password must be at least 8 characters

Password must contain at least one uppercase, or capital, letter (ex: A, B, etc.)

Password must contain at least one lowercase letter.

Password must contain at least one number digit (ex: 0, 1, 2, 3, etc.)

Password must contain at least one special character

Sign up for free

By signing up, you agree to the [Terms of Service](#) and [Privacy Policy](#).

Already have an account? [Sign in](#)