

# BoilerX

## Test Plan

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Identification and classification	Test Case 001 - Sign up with a valid purdue email System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"><li>• At sign up page, enter a valid email that has not been used to sign up before</li></ul>
Expected result	<ul style="list-style-type: none"><li>• The system checks if the email is already sign up in the system</li><li>• If the email has not been used in registering our system, new page will appear requiring user to key in the verification code that was sent to the email.</li><li>• If If the email has been used in registering our system, the message "the email has already been used" will appear near the text box</li></ul>

Identification and classification	Test Case 002 - Sign up with non-purdue email System: BoilerX Severity: Critical
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Instructions	<ul style="list-style-type: none"> <li>At sign up page, enter an invalid purdue email. For example, <a href="mailto:xxx@gmail.com">xxx@gmail.com</a>, xxx@p, or xxxx</li> <li>Click sign up button</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The message "invalid: must be a valid purdue email" will appear near the text box</li> </ul>

Identification and classification	Test Case 003 - Input the right confirmation number System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>User key in the correct confirmation number</li> <li>User click button to submit</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>New page will appear requiring user to set password.</li> </ul>

Identification and classification	Test Case 004 - Input wrong confirmation number System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>User key in the wrong confirmation number</li> <li>User click button to submit</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The message "invalid confirmation number" will appear near the text box</li> </ul>

Identification and classification	Test Case 005 - Input valid password for signing up System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>After the user key in the correct confirmation number, the user input a valid password</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The user account page will appear</li> </ul>

Identification and classification	Test Case 006 - Input invalid password for signing up System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>After the user key in the correct confirmation number, the user input a password that does not meet our system requirement</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The message signaling invalid password will appear near the text box</li> </ul>

Identification and classification	Test Case 007 - Login with valid credentials System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>At login page, enter a valid email</li> </ul>

	address that has already been signed up, then click login
Expected result	<ul style="list-style-type: none"> <li>The application will display a message which indicate the user has been logged in successfully.</li> </ul>

Identification and classification	Test Case 008 - Log in with wrong credentials System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>At login page, enter an invalid email address, then click login</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The application will display an error message which indicate the user has not been logged in.</li> </ul>

Identification and classification	Test Case 009 - Attempt to change to a valid username System: BoilerX Severity: Workaround
Instructions	<ul style="list-style-type: none"> <li>Navigate to profile edit page, then change the current username to a new valid username ([a-zA-Z0-9_]+).</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The application will display a message which indicate the username has been changed successfully.</li> </ul>

Identification and classification	<p>Test Case 010 - Attempt to change to an invalid username</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>• Navigate to profile edit page, then change the current username to an invalid username (which does not match the regular expression [a-zA-Z0-9_]+).</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The application will display an error message which indicate the username has not been changed.</li> </ul>

Identification and classification	<p>Test Case 011 - Attempt to change a valid profile picture</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>• Navigate to profile edit page, then select a valid profile picture(.jpg, .png) and click upload.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The application will display a message which indicate the profile picture has been changed successfully.</li> </ul>

Identification and classification	<p>Test Case 012 - Attempt to change a invalid profile picture</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
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Instructions	<ul style="list-style-type: none"> <li>• Navigate to profile edit page, then select an invalid profile picture(e.g.: a picture that does not the file extension) and click upload.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The application will display an error message which indicate the profile picture has not been changed.</li> </ul>

Identification and classification	Test Case 013 - Logout of the existing account System: BoilerX Severity: Critical
Instructions	<ul style="list-style-type: none"> <li>• Navigate to the profile page, then click logout</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The application will display a message that indicate the user has been successfully logged out.</li> </ul>

Identification and classification	Test Case 014 - Search item by keywords System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>• Navigate to the home page, then interact with the search bar. Enter the keyword which is not empty then search.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The application will display the search results with is relevant to the</li> </ul>

	keywords.
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Identification and classification	Test Case 015 - Filter items by category System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>After the user has entered keywords and pressed search, the user will click filter and select the category that the item belongs to.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The page will only show items that belongs to the identified category.</li> </ul>

Identification and classification	Test Case 016 - Sort item by price System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>After the user has entered keywords and pressed search, the user will click sort and choose "price from low to high" or "price from high to low.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>Show drop down menu that allows the user to choose "price from low to high" or "price from high to low.</li> <li>Show items from highest price to lowest price or from lowest price to highest.</li> </ul>

Identification and classification	Test Case 017 - Sort item by popularity System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>After the user has entered keywords and pressed search, the user will click sort and choose "popularity"</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>After the user has entered keywords and pressed search, the user will click sort and choose "popularity"</li> <li>Show items from most popular to least popular</li> </ul>

Identification and classification	Test Case 018 - List popular items on home page System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>Click logo or open a new window with website url</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>Show 4 - 5 most popular items</li> </ul>

Identification and classification	Test Case 019 - View account information when logged in System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>After logging in, click "my account"</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>Show account page</li> </ul>



Identification and classification	Test Case 020 - View account information when not logged in System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>When user is not logged in, click "my account"</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>Show "Sign up/Log in" page</li> </ul>

Identification and classification	Test Case 021 - Post item with valid title, valid description, and valid price System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>After clicking "sell an item", seller will enter a valid title, valid description and a valid price inside the provided textbox for the item.</li> <li>The title is considered valid if it is a non-null String value with length less than or equal to 50 characters.</li> <li>The description is considered valid if it is String value with length less than or equal to 250 words.</li> <li>The price is considered valid if it is an value between zero and 1,000,000,000 inclusive.</li> <li>Boundary case: title with 0, 1, 2 character or 49, 50, 51 characters OR description with 249, 250, 251 words</li> </ul>

	<p>OR price being -1, 0, 2, 999,999,999, 1,000,000,000, 1,000,000,001.</p> <ul style="list-style-type: none"> <li>Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The expected result should be a successful upload of the item that is saved into the database.</li> </ul>

Identification and classification	<p>Test Case 022 - Posting an item with an invalid title and/or invalid description</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>After clicking "sell an item", seller will enter a invalid title inside the provided textbox for the item.</li> <li>The title is considered invalid if it is a null String value.</li> <li>The title is considered invalid if it is more than 50 characters.</li> <li>The description is considered invalid if it is String value with length more than 250 words.</li> <li>Boundary case: title with -1, 0, 1 character or 49, 50, 51 characters OR description with 249, 250, 251 words.</li> <li>Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The expected result is a popup error message notifying the seller of the invalid title entry.</li> </ul>

Identification and classification	<p>Test Case 023 - Posting an item with an invalid price</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>• After clicking "sell an item", seller will enter a invalid price inside the provided textbox for the item.</li> <li>• The price is considered invalid if it is a negative value.</li> <li>• The price is considered invalid if it is an value of more than 1,000,000,000.</li> <li>• Boundary case: price being -1, 0, 1, 999,999,999, 1,000,000,000, 1,000,000,001.</li> <li>• Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result is a popup error message notifying the seller of the invalid price entry.</li> </ul>

Identification and classification	<p>Test Case 024 - Posting an item with a valid picture</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>• After clicking "sell an item", seller will upload a valid picture for the item.</li> <li>• After clicking "sell an item", seller will not upload a picture for the item.</li> <li>• The picture is considered valid if it has a jpeg or png file extension.</li> </ul>

	<ul style="list-style-type: none"> <li>• The picture is considered valid if it is null.</li> <li>• Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result should be a successful upload of the picture that is saved into the database.</li> </ul>

Identification and classification	Test Case 025 - Posting an item with no picture System: BoilerX Severity: Workaround
Instructions	<ul style="list-style-type: none"> <li>• After clicking "sell an item", seller will not upload a picture for the item.</li> <li>• The picture is considered valid if it is null.</li> <li>• Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result should be a successful upload of the item that is saved into the database.</li> </ul>

Identification and classification	Test Case 026 - Posting an item with valid tags System: BoilerX Severity: Workaround
Instructions	<ul style="list-style-type: none"> <li>• After clicking "sell an item", seller will enter a valid tag inside the provided textbox for the item.</li> <li>• The tag is considered valid if it is a</li> </ul>

	<p>non-null char value.</p> <ul style="list-style-type: none"> <li>• The tag is considered valid if it is less than or equal to 20 characters.</li> <li>• The item tags are considered valid if it has 6 or less total number of tags.</li> <li>• Boundary case: a tag with 0, 1, 2 , 19, 20, 21 characters OR number of tags being 0, 1, 2, 5, 6, 7.</li> <li>• Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result should be a successful upload of the item tag that is saved into the database.</li> </ul>

Identification and classification	<p>Test Case 027 - Posting an item with invalid tags</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>• After clicking "sell an item", seller will enter an invalid tag inside the provided textbox for the item.</li> <li>• The tag is considered invalid if it is a null char value.</li> <li>• The tag is considered invalid if it is more than 20 characters.</li> <li>• The item tags are considered invalid if it exceeds 6 total number of tags.</li> <li>• Boundary case: a tag with 19, 20, 21 characters OR number of tags being 5, 6, 7.</li> <li>• Click submit.</li> </ul>

Expected result	<ul style="list-style-type: none"> <li>The expected result is a popup error message notifying the seller of the invalid tag entry.</li> </ul>
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Identification and classification	<p>Test Case 028 - Posting an item with an invalid picture</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>After clicking "sell an item", seller will upload an invalid picture for the item.</li> <li>The picture is considered invalid if it does not have a jpeg or png file extension.</li> <li>Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The expected result is a popup error message notifying the seller of the invalid picture entry.</li> </ul>

Identification and classification	<p>Test Case 029 - Editing a currently listed item</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>From the "account" page, seller will click "my listings" and click the "edit" button on the corresponding item.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>The expected result will be the seller being redirected to the "editing" page for the corresponding item.</li> </ul>

Identification and classification	<p>Test Case 030 - Submitting valid changes on a listed item</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>• Navigate to the listed item and change new item information, then click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The application will display a message that indicate the changes is valid and has been saved successfully.</li> </ul>

Identification and classification	<p>Test Case 031 - Submitting invalid changes on a listed item</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>• From the "editing" page of the item, seller will submit invalid changes on a listed item.</li> <li>• Changes are considered invalid if meets with the requirements stated in Test Cases 22, 23, 27 or 28.</li> <li>• Click submit.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result is a popup error message notifying the seller of the invalid changes made on the listed item.</li> </ul>

Identification and classification	Test Case 032 - Valid deletion of a listed item System: BoilerX Severity: Important
Instructions	<ul style="list-style-type: none"> <li>On account -&gt;my listings page, click on the delete button of one of the item posted</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>(system verified that the listed item is valid in the database, and remove the item from the database)</li> <li>A message signaling successful deletion will appear</li> <li>The item being deleted will be removed from the page</li> </ul>

Identification and classification	Test Case 033 - Delete a listed item that has already been deleted System: BoilerX Severity: Workaround
Instructions	<ul style="list-style-type: none"> <li>Open 2 windows of account -&gt;my listings page</li> <li>On one account -&gt;my listings page, click on the delete button of an item posted</li> <li>On the other account -&gt; my listings page, click on the delete button of the same item posted</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>In the first window, from test case 032, the item will be successfully deleted</li> </ul>



	<ul style="list-style-type: none"> <li>• System check that the listed item is not existing in the database</li> <li>• In the second window, a message signaling error will appear</li> <li>• In the second window, the item will be removed from the page</li> </ul>
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Identification and classification	<p>Test Case 034 - Save changes on listed item when the item is deleted</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>• Open 2 windows of account -&gt;my listings page</li> <li>• On one account -&gt;my listings page, click on the edit button of an item posted</li> <li>• On the other account -&gt; my listings page, click on the delete button of the same item posted</li> <li>• On the first window, click save button</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• In the first window, the seller will be redirected to the "editing" page for the corresponding item.</li> <li>• In the second window, from test case 032, the item will be successfully deleted</li> <li>• System check that the listed item is not existing in the database</li> <li>• In the first window, message signaling error will appear</li> </ul>

	<ul style="list-style-type: none"> <li>• In the first window, my listing page will appear and the item will be removed from the page</li> </ul>
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Identification and classification	<p>Test Case 035 - Buy an item when the item is available</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>• After clicking an item, click the “buy” button.</li> <li>• Upon clicking the “buy” button, the status of the current listing remains up-to-date.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result is a popup message notifying the buyer that the seller has been notified via email with the buyer’s contact information.</li> <li>• Seller will receive an email containing the buyer’s contact and item information.</li> </ul>

Identification and classification	<p>Test Case 036 - Buy an item when the item is unavailable</p> <p>System: BoilerX</p> <p>Severity: Important</p>
Instructions	<ul style="list-style-type: none"> <li>• Buyer click an item.</li> <li>• The seller delete the item on another window.</li> </ul>

	<ul style="list-style-type: none"> <li>• Buyer click buy.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result is a popup message notifying the buyer that the item is no longer available.</li> <li>• Redirect to the search result page.</li> </ul>

Identification and classification	<p>Test Case 037 - Buy item when it has been updated by the seller</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>• Buyer click an item.</li> <li>• The seller edit the item on another window and save the changes.</li> <li>• Buyer click buy.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result is a popup message notifying the buyer that the item has been updated.</li> <li>• Refresh the item page.</li> </ul>

Identification and classification	<p>Test Case 038 - Buy the same item twice</p> <p>System: BoilerX</p> <p>Severity: Workaround</p>
Instructions	<ul style="list-style-type: none"> <li>• After the buyer successfully click buy button, the buyer click buy.</li> </ul>
Expected result	<ul style="list-style-type: none"> <li>• The expected result is a popup message notifying the buyer that he/she has already bought the item.</li> </ul>