

# 1.2 - Creating test cases

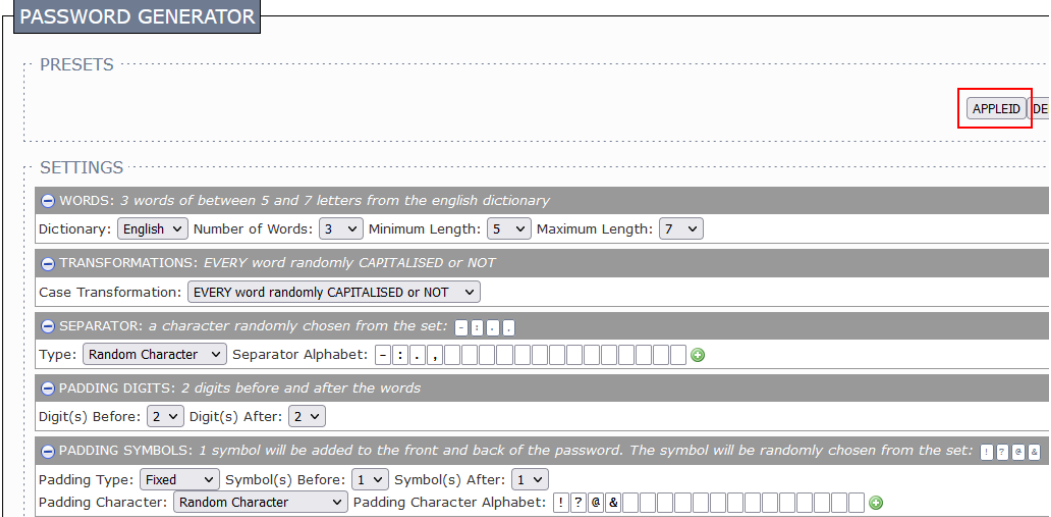
Since no acceptance criteria is available, these are built based on my personal risk assessment of the AUT. Since there is a LOT that could be tested, I decided to be more realistic and stick to “Smoke” & “Sanity” level tests - those that present the greatest risk to the business if they do not function as expected. Given unlimited time, I like to reference this PDF on what to do when I think I have good test coverage:

<https://www.thebraidytester.com/downloads/YouAreNotDoneYet.pdf>.

## TC1: Generate password with default settings

Steps	Expected
Navigate to “https://xkpasswd.net/s/”	“ <a href="https://xkpasswd.net/s/">https://xkpasswd.net/s/</a> ” is loaded
Click “Generate 3 Passwords” button	3 unique passwords are generated, each on a new line

## TC2: Password generation with `APPLEID` preset

Steps	Expected
Navigate to “https://xkpasswd.net/s/”	“ <a href="https://xkpasswd.net/s/">https://xkpasswd.net/s/</a> ” is loaded
Click “APPLEID” in “PRESETS” container	Settings are updated to: 

	<ul style="list-style-type: none"><li>• <b>WORDS:</b> 3 words of between 5 and 7 letters from the english dictionary</li><li>• <b>TRANSFORMATIONS:</b> EVERY word randomly CAPITALIZED or NOT</li><li>• <b>SEPARATOR:</b> a character randomly chosen from the set: - : . ,</li><li>• <b>PADDING DIGITS:</b> a character randomly chosen from the set: -:.,</li><li>• <b>PADDING SYMBOLS:</b> 1 symbol will be added to the front and back of the password. The symbol will be randomly chosen from the set: ! ? @ &amp;</li></ul> <p><b>SUMMARY:</b></p> <div><p>SUMMARY ⓘ</p><p>STRUCTURE: <span>P</span><span>D</span><span>D</span><span>S</span><span>WORD</span><span>S</span><span>WORD</span><span>S</span><span>WORD</span><span>S</span><span>D</span><span>D</span><span>P</span></p><p>LENGTH: between 25 and 31 characters    CHARACTER COVERAGE: <span>abcABC</span><span>0-9</span><span>!*</span></p></div> <ul style="list-style-type: none"><li>• <b>Structure:</b> pddswordswordswordsddp</li><li>• <b>Length:</b> between 25 and 31 characters</li><li>• <b>Character Coverage:</b> abcABC0-9\$!*</li></ul>
Click “Generate 3 Passwords” button	3 unique passwords are generated, each on a new line <ul style="list-style-type: none"><li>• <b>Strength:</b> Good</li><li>• <b>Entropy:</b> between <b>164bits</b> &amp; <b>203bits</b> blind &amp; <b>74bits</b> with full knowledge</li></ul>

TC3-10: Repeat TC2 for each other preset

...

TC11: “Save Config” generates proper JSON of settings

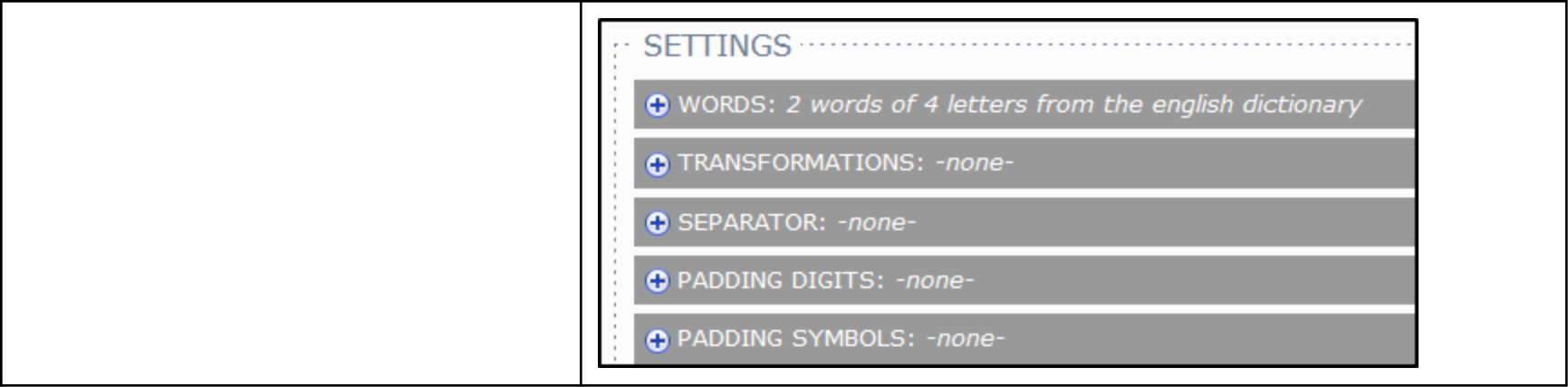
Steps	Expected
Navigate to “https://xkpasswd.net/s/”	“ <a href="https://xkpasswd.net/s/">https://xkpasswd.net/s/</a> ” is loaded
Expand “LOAD/SAVE CONFIG” container	“LOAD/SAVE CONFIG” container is expanded
Click “Save Config”	The following JSON config is displayed <pre>{   "num_words": 3,   "word_length_min": 4,</pre>

```
"word_length_max": 8,  
"case_transform": "ALTERNATE",  
"separator_character": "RANDOM",  
"separator_alphabet": [  
    "!",  
    "@",  
    "$",  
    "%",  
    "^",  
    "&",  
    "*",  
    "-",  
    "_",  
    "+",  
    "=",  
    ".",  
    "|",  
    "~",  
    "?",  
    "/",  
    ":",  
    ";",  
    ",",  
    "],  
"padding_digits_before": 2,  
"padding_digits_after": 2,  
"padding_type": "FIXED",  
"padding_character": "RANDOM",  
"symbol_alphabet": [  
    "!",  
    "@",  
    "$",  
    "%",  
    "^",  
    "&",  
    "*",  
    "-",  
    "_",  
    "+",  
    "=",  
    ".",  
    "|",  
    "~",  
    "?",  
    "/",
```

	<pre>" ",   ". ",   " ",   " ",   },   "padding_characters_before": 2,   "padding_characters_after": 2,   "random_increment": "AUTO" }</pre>
Click "Load Config"	No errors are displayed

TC12: "Load Config" with valid JSON updates settings

Steps	Expected
Navigate to "https://xkpasswd.net/s/"	" <a href="https://xkpasswd.net/s/">https://xkpasswd.net/s/</a> " is loaded
Expand "LOAD/SAVE CONFIG" container	"LOAD/SAVE CONFIG" container is expanded
Input the following valid JSON config: <pre>{   "num_words": 2,   "word_length_min": 4,   "word_length_max": 4,   "case_transform": "NONE",   "separator_character": "NONE",   "padding_digits_before": 0,   "padding_digits_after": 0,   "padding_type": "NONE",   "random_increment": "AUTO" }</pre>	Input is displayed in input box
Click "Load Config"	Settings are updated as shown below:



TC13: “Load Config” with broken JSON displays error

Steps	Expected
Navigate to “https://xkpasswd.net/s/”	“ <a href="https://xkpasswd.net/s/">https://xkpasswd.net/s/</a> ” is loaded
Expand “LOAD/SAVE CONFIG” container	“LOAD/SAVE CONFIG” container is expanded
Input the following valid JSON config: { "num_words": 1, "word_length_min": 4, "word_length_max": 4, "case_transform": "NONE", "separator_character": "NONE", "padding_digits_before": 0, "padding_digits_after": 0, "padding_type": "NONE", "random_increment": "AUTO" }	Input is displayed in input box
Click “Load Config”	An error is displayed with a leading red (!) icon and red text: “Failed to load config with error: num_words must be an integer between 2 and 10 inclusive”

	<div><div>LOAD/SAVE CONFIG</div><div><div>Save Config</div><div>Load Config</div></div><div><pre>{   "num_words": 1,   "word_length_min": 4,   "word_length_max": 4,   "case_transform": "NONE",   "separator_character": "NONE",   "padding_digits_before": 0,   "padding_digits_after": 0,   "padding_type": "NONE", }</pre></div><div>Failed to load config with error: num_words must be an integer between 2 and 10 inclusive</div></div>
Input the following valid JSON config: <pre>{   "num_words": 2,   "word_length_min": 4,   "word_length_max": 4,   "case_transform": "NONE",   "separator_character": "NONE",   "padding_digits_before": 0,   "padding_digits_after": 0,   "padding_type": "NONE",   "random_increment": "AUTO" }</pre>	Input is displayed in input box
Input is displayed in input box	Error message is no longer displayed <div><div>LOAD/SAVE CONFIG</div><div><div>Save Config</div><div>Load Config</div></div><div><pre>{   "num_words": 2,   "word_length_min": 4,   "word_length_max": 4,   "case_transform": "NONE",   "separator_character": "NONE",   "padding_digits_before": 0,   "padding_digits_after": 0,   "padding_type": "NONE", }</pre></div></div>

## TC14: "Num. Passwords" setting generates selected number of passwords

Steps	Expected
Navigate to "https://xkpasswd.net/s/"	" <a href="https://xkpasswd.net/s/">https://xkpasswd.net/s/</a> " is loaded
Select "1" for "Num. Passwords"	<ul style="list-style-type: none"><li>• "1" is displayed in select box</li><li>• Button text updated to "Generate Password"</li><li>• Input box rows attribute = "1"</li></ul>
Click "Generate Password"	One password is generated
Select "2" for "Num. Passwords"	<ul style="list-style-type: none"><li>• "2" is displayed in select box</li><li>• Button text updated to "Generate 2 Passwords"</li><li>• Input box rows attribute = "2"</li></ul>
Click "Generate 2 Passwords "	Two passwords are generated
Repeat steps 3 & 4 for numbers 3 -> 10 (n)	<ul style="list-style-type: none"><li>• "n" is displayed in select box</li><li>• Button text updated to "Generate n Passwords"</li><li>• Input box rows attribute = "n"</li></ul>