

## List of test cases for the 'URL Minifier' web application.

Production env is in <http://1-dot-miniurl-1.appspot.com/>

Test cases covering client-server interactions:

Test #	Test Steps	Test Expected Result
1	Navigate to <a href="http://1-dot-miniurl-1.appspot.com/">http://1-dot-miniurl-1.appspot.com/</a> Enter some URL X into text area (note: at this step, use a good, non-malicious destination, URL). Click the 'Minify Long URL' Button.	Your minified URL Y shall show up at the bottom of the Home page <a href="http://1-dot-miniurl-1.appspot.com/index.html#!/">http://1-dot-miniurl-1.appspot.com/index.html#!/</a>
2	Navigate to <a href="http://1-dot-miniurl-1.appspot.com/">http://1-dot-miniurl-1.appspot.com/</a> Enter some URL X into text area. Click the 'Minify Long URL' Button. Click the embedded link of the minified URL Y .	A browser tab/window with the destination URL X shall open up.
3	Navigate to <a href="http://1-dot-miniurl-1.appspot.com/">http://1-dot-miniurl-1.appspot.com/</a> Enter some long URL X into text area. Click the 'Minify Long URL' Button. Select and copy the minified URL Y to clipboard. Open a new browser window / tab. Enter URL Y into the address box and hit 'go' .	Browser will momentarily navigate to the Safe Browsing Notification page and then redirect to the destination URL X
4	Open a new browser window / tab. Enter into the browser's address bar the URL destination <a href="http://1-dot-miniurl-1.appspot.com/completelyRandomUrl">http://1-dot-miniurl-1.appspot.com/completelyRandomUrl</a> ( <b>Important</b> : notice the absence of the “#!” in URI) Hit 'go'.	Browser navigates to the page <a href="http://1-dot-miniurl-1.appspot.com/index.html#!/miniUrlNotFound">http://1-dot-miniurl-1.appspot.com/index.html#!/miniUrlNotFound</a> with the notification “Your Minified URL could not be found in our database. We apologize for that. “
5	Navigate to <a href="http://1-dot-miniurl-1.appspot.com/">http://1-dot-miniurl-1.appspot.com/</a> Enter into the text area the following URL (which is designed to be flagged as a malicious web site by Google Safe Browsing): <a href="http://malware.testing.google.test/testing/malware/">http://malware.testing.google.test/testing/malware/</a> Click the 'Minify Long URL' Button.	Home page will display the following error note : “Ouch. Your url is flagged by our systems as an online threat and therefore cannot be minified.”
6	Use your favorite REST Client software to issue the following Http request: <ul style="list-style-type: none"><li>Method: Post</li><li>URL: <a href="http://1-dot-miniurl-1.appspot.com/minify">http://1-dot-miniurl-1.appspot.com/minify</a></li><li>Content-Type: application/json</li><li>Raw payload: {longUrl: "http://malware.testing.google.test/testing/malware/"}</li></ul>	The server reply would be a JSON formatted data of this structure: { "errorString": "", "minifiedUrl": " <a href="http://1-dot-miniurl-1.appspot.com:80/GA=====">http://1-dot-miniurl-1.appspot.com:80/GA=====</a> " }
7	From the JSON reply of step 6, copy the minifiedURL Enter into your browser's address box and hit 'go'	The browser page shows the message: “Ouch, sorry, your destination is a suspected malicious site. We cannot take you there!”

8	Navigate to <a href="http://1-dot-miniurl-1.appspot.com/">http://1-dot-miniurl-1.appspot.com/</a> Enter some URL X with more than allowed count of characters into text area. Note: max allowed characters in production is 4000 characters, if hostname is 'localhost' then it is 100 characters. Click the 'Minify Long URL' Button.	The browser page shows the message: “Ouch. URL minification failed: URL exceeds max allowed characters. ”
9	Navigate to <a href="http://1-dot-miniurl-1.appspot.com/">http://1-dot-miniurl-1.appspot.com/</a> Enter some URL X with the embedded string '<script>'. Click the 'Minify Long URL' Button.	The browser page shows the message: “Ouch. URL minification failed: URL contains disallowed scripting. ”

#### Sample long URL:

<https://www.google.com/maps/dir/Foster+City,+CA/Redding,+CA/Medford,+Oregon/Crater+Lake,+Klamath+County,+OR/Ashland,+Oregon/Portland,+OR/@41.4534747,-127.1538462,6z/am=t/data=!4m38!4m37!1m5!1m1!1s0x808f98d0d466b031:0xad01d0c9890ef7d!2m2!1d-122.2710788!2d37.5585465!1m5!1m1!1s0x54d291d63b4a202f:0x1f3358ec7b360f57!2m2!1d-122.3916754!2d40.5865396!1m5!1m1!1s0x54cf7c5b37361f6d:0x7db736c5541136e!2m2!1d-122.8755949!2d42.3265152!1m5!1m1!1s0x54c63e84c023ab41:0xbae1bf19c88b877a!2m2!1d-122.1090039!2d42.9445872!1m5!1m1!1s0x54cf628cb4eedb55:0x9b3b1fb8782df1ad!2m2!1d-122.7094767!2d42.1945758!1m5!1m1!1s0x54950b0b7da97427:0x1c36b9e6f6d18591!2m2!1d-122.6764816!2d45.5230622!3e0>