

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 http://1-dot-miniurl-1.appspot.com/ 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 http://1-dot-miniurl-1.appspot.com/index.html#!/
2	Navigate to http://1-dot-miniurl-1.appspot.com/ 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 http://1-dot-miniurl-1.appspot.com/ 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 http://1-dot-miniurl-1.appspot.com/completelyRandomUrl (Important : notice the absence of the “#!” in URI) Hit 'go'.	Browser navigates to the page http://1-dot-miniurl-1.appspot.com/index.html#!/miniUrlNotFound with the notification “Your Minified URL could not be found in our database. We apologize for that. “
5	Navigate to http://1-dot-miniurl-1.appspot.com/ Enter into the text area the following URL (which is designed to be flagged as a malicious web site by Google Safe Browsing): http://malware.testing.google.test/testing/malware/ 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">• Method: Post• URL: http://1-dot-miniurl-1.appspot.com/minify• Content-Type: application/json• Raw payload: {longUrl: "http://malware.testing.google.test/testing/malware/"}	The server reply would be a JSON formatted data of this structure: <pre>{ "errorString": "", "minifiedUrl": "http://1-dot-miniurl-1.appspot.com:80/GA=====", "longUrl": "http://malware.testing.google.test/testing/malware/" }</pre> <p>Note that the longUrl is always reflected to the client as the</p>

		context.
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 http://1-dot-miniurl-1.appspot.com/ Enter some URL X with more then 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 http://1-dot-miniurl-1.appspot.com/ 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!1s0x808f98d0d466b031:0xadb01d0c9890ef7d!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>