

[system-log] Record JavaScript errors in "System Log"

[5.3.0-B1]

One JavaScript error on a page can ruin all other (not related to the error) JavaScript on that page. I propose that we use "window.onerror" method for catching these errors (see <http://stackoverflow.com/questions/951791/javascript-global-error-handling> for more info) and through an AJAX call record them in "System Log".

This example code shows how to catch these errors:

```
$(window).on('error', function ($e) {
  var $original_event = $e.originalEvent;
  console.log($original_event);

  alert('col: ' + $original_event.colno + "\n" + 'line: ' +
    $original_event.lineno + "\n" + 'msg: ' + $original_event.message + "\n" +
    'file: ' + $original_event.filename);
});
```

There is also not documented `Error.prototype.stack` property, which allows to retrieve stack track to the place, where error happened. The format of stack trace can vary greatly depending on used browser, but in general it can look like this:

```
Error: foobar
  at new bar (<anonymous>:241:11)
  at foo (<anonymous>:245:5)
  at callFunction (<anonymous>:229:33)
  at Object.InjectedScript._evaluateOn (<anonymous>:875:140)
  at Object.InjectedScript._evaluateAndWrap (<anonymous>:808:34)
```

Related Links

- <https://github.com/csnover/TraceKit>
- <https://www.stacktracejs.com/>
- <http://blog.getsentry.com/2016/01/04/client-javascript-reporting-window-onerror.html>

Related Tasks