Add integrity property to JavaScript files

Add support for SRI as described here: http://www.w3.org/TR/SRI/ and here: https://blog.cloudflare.com/an-introduction-to-javascript-based-ddos/

Related issues:
- Related to TYPO3 Core - Bug #76944: Subrequest-integrity should also add cros... Rejected 2016-07-05
- Related to TYPO3 Core - Bug #77873: Missing crossorigin property for JavaScri... Closed 2016-09-07

Associated revisions
Revision a5079093 - 2015-05-01 14:38 - Xavier Perseguers
[FEATURE] Add integrity property to JavaScript files

Add a property 'integrity="some-hash"' to JavaScript files via TypoScript page.includeJSlibs.<array>.integrity = some-hash

This patch affects the TypoScript PAGE properties

- includeJSlibs
- includeJSFooterlibs
- includeJS
- includeJSFooter

Resolves: #66698
Releases: master
Change-Id: i82b6aaaaf424d7056844912f7194f88e01a972ec3
Reviewed-on: http://review.typo3.org/39132
Reviewed-by: Anja Leichsenring <aleichsenring@ab-softlab.de>
Tested-by: Anja Leichsenring <aleichsenring@ab-softlab.de>
Reviewed-by: Frank Nägler <typo3@naegler.net>
Tested-by: Frank Nägler <typo3@naegler.net>

History
#1 - 2015-05-01 09:35 - Xavier Perseguers
Tested on Chromium with invalid hash:

```javascript
page.includeJS {
    10 = fileadmin/jquery-1.10.2.min.js
    10.disableCompression = 1
    # valid:
    10.integrity = sha256-C6CB9UYIS9UJeqinPHWTHVqh/E1uhG5Twh+Y5gFQmYg=
    # invalid:
    10.integrity = sha256-XXXXXXXXS9UJeqinPHWTHVqh/E1uhG5Twh+Y5gFQmYg=
}
```

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#2 - 2015-05-01 09:45 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 1 for branch master of project Packages/TYPO3.CMS has been pushed to the review server. It is available at [http://review.typo3.org/39132](http://review.typo3.org/39132).

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#3 - 2015-05-01 15:00 - Xavier Perseguers

- Status changed from Under Review to Resolved
- % Done changed from 0 to 100

Applied in changeset a50790937b740dcb337b45afa59dfb374125cc95.

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#4 - 2018-10-02 11:45 - Benni Mack

- Status changed from Resolved to Closed

Files

<table>
<thead>
<tr>
<th>File</th>
<th>Size</th>
<th>Date</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>invalid.png</td>
<td>25.3 KB</td>
<td>2015-05-01</td>
<td>Xavier Perseguers</td>
</tr>
</tbody>
</table>