1. Functional Test

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| **Test Case Name** | **Test Purpose** | **Test Step** | **Browser** |
| 01\_msgBox\_lang\_NOR | To test the normal input for the message input field for the supported languages:   * English * Chinese | 1. Enter “This is a test message” 2. Click “Post” button   => Should see the message posted successfully.  3. Repeat step 1 and 2 with a Chinese message “这是一个测试语句。” | Chrome  Firefox  Edge |
| 02\_msgBox\_LongStr\_ERR | To test the error case of input a very long string which exceed the length limitation of this field (according to the limitation in requirement/ design doc) | 1. Enter “jdksfjslfjslfj…” 2. 2. Click “Post” button   => Should prompt with error message that the string exceeded the length limit. |
| 03\_msgBox\_EmptyStr\_ERR | To test the error case of input an empty string | 1. Enter nothing. 2. 2. Click “Post” button   => Should prompt with error message that cannot post empty string.   1. Enter only spaces “ ”. 2. 2. Click “Post” button   => Should prompt with error message that cannot post empty string. |
| 10\_attachFile\_txt\_dragDrop\_NOR | To test the upload feature of attaching a txt file combine with “Drag & Drop” action. | 1. Drag & Drop a txt file.  * It should be successfully uploaded.  1. Download the uploaded file to check the content.  * The content should be same as the original one. |
| 11\_attachFile\_binary\_uploadButton\_NOR | To test the upload feature of attaching a binary file, combine with “Upload” link:   * zip * jpg/png * doc/pdf * … | 1. Click “Upload” link to attach a zip file.  * It should be successfully uploaded.  1. Download the uploaded file to check the content.  * The content should be same as the original one.  1. Repeat step 1 and 2 for below file formats:  * jpg/png * doc/pdf * … |
| 12\_attachFile\_several\_NOR | To test if user uploaded more than one file. | 1. Drag & Drop several files.  * The files should be successfully uploaded.  1. Download the uploaded files to check the md5/content.  * The content should be same as the original one. |
| 13\_attachFile\_duplicatedFile\_ERR | To test if user uploaded same file repeatedly. | 1. Click “Upload” link to attach a file.  * It should be successfully uploaded.  1. Click “Upload” link to attach the same file as step1.  * It should not be uploaded. * Should prompt message that duplicated files. |
| 14\_attachedFileExceedMaxNumber\_ERR | To test if user uploaded many files exceed the file number limit. | 1. Click “Drag & Drop” to attach many files which exceed the size limit (according to the requirement/design doc).  * It should not be uploaded. * Should prompt message that too many files. |
| 15\_attachedFileExceedSize\_ERR | To test if user uploaded a file exceed the size limit. | 1. Click “Upload” link to attach a big size file (according to the requirement/design doc).  * It should not be uploaded. * Should prompt message that duplicated files. |
| 20\_resizeIcon\_NOR | To test the resize icon of the message input box. | 1. Click and drag the icon to resize the box.  * Should become both larger and smaller. |
| 30\_writeArticalBtn\_NOR | To test the write article button with text contains more than one lines. | 1. Click the “write article” button.  * Should popup a new window.  1. Enter long article with more than one lines. 2. Click “Post” button.   Should be posted successfully. |
| 31\_writeArticalBtn\_format\_NOR | To test the write article button with:   * text, * font settings, * insert pictures   (All possible actions) | 1. Click the “write article” button. 2. Should popup a new window. 3. Enter long article with:  * text, * font settings, * insert pictures * (All possible actions)  1. Click “Post” button.  * Should be posted successfully. |

1. Security Test

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| Test Case Name | Test Purpose | Test Step | Browser |
| 01\_postWIthoutLogin | To test the authority. |  |  |
| 02\_postWIthSQLInjection | To attack with the SQL Injection. |  |  |
| 03\_postWithXSSAttack | To validate the XSS attack. |  |  |
| 04\_AttachExecutableScript | Attach some executable scripts in different programing languages, then try to execute the file from web browser. |  |  |
| 05\_WriteExecutableScriptAsArtical | Write some executable scripts in different programing languages, then post it. |  |  |

1. Performance Test

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| **Test Case Name** | **Test Purpose** | **Test Step** | **Browser** |
| 01\_InputmessageParallel | Simulate huge number of users to post message at same time |  |  |
| 02\_UploadBigSizeFile | Upload a big size file to check the upload speed. |  |  |
| 03\_UploadFileParallel | Simulate huge number of users to upload files at same time |  |  |