1. Goal

This check list provides the list of screen standard checklist of test-cases to be executed by each developer in the live tests for each screen developed.

**This checklist aims to define relevant tests and to clarify test cases.**

The test report template is defined by standard **[S25]**

1. Actors

The following actors are implied:

* **Project Leader** (or a delegated engineer): verifies all the items of this generic test-case list and adapt the necessary things (add new items, remove irrelevant items…) to build a Screen Live Tests Form for his project (see **[S25]**). Then the PL prepares the form for each component to develop and may add specific test cases to it.  
  After receiving the form filled in the tests result by developer, Project Leader verifies it, in particular the functional test cases section, and then stores it in the Project physical folder, stapled with the matching task sheet. The PL may refuse the form (and the matching task sheet) if he considers that functional tests were not good enough or insufficient.
* **Developer**: receives the Screen Live Tests Form of the project (given by Project Leader) and adds functional test cases to it according to the components requirements; then he executes systematically all test-cases of the form, fills in the results of the test-cases and other information, signs and gives the form back to Project Manager along with the matching task sheet.

1. Screen Generic Test-cases

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Operations** | **Expected results** | **OK or NA[[1]](#footnote-1)** |
| **A** | **Layout Check** |  |  |
| **1** | **Page properties** |  |  |
| 1.1 | Check that layout fit well with defined minimal resolution screen | No horizontal scrollbar. No double vertical scrollbar |  |
| 1.2 | Check window's title (spelling) for all application's languages | The title has a correct spelling in all application's languages according to the design document |  |
| 1.3 | Check that cache is disabled | Do a back navigation to check refresh |  |
| 1.4 | Check keyboard shortcuts are working (for menu, toolbar, buttons …), this should be defined in specification | Ex: Ctrl+F1 to go back to previous screen |  |
| 1.5 | Check resizing behavior | Resizing behavior should be defined in specification. The screen layout should look nice when resizing (from minimal resolution to bigger screen)  Try to avoid double scrollbars on screen. |  |
| **2** | **Item's size** |  |  |
| 2.1 | Check the size of the items: font, button, text control, list control, frame… | The size of:  font -> as in design document  others -> should be suitable (nice) according to layout  Avoid double scrollbars, truncated items |  |
| 2.2 | Check tooltip is implemented correctly (should be defined in specification), tooltip should be available when item’s text cannot fully displayed | Ex: tooltip for toolbar buttons, tooltip for abbreviation text. |  |
| **3** | **Item's alignment** |  |  |
| 3.1 | Check alignment for text field, numeric field, date field | Text field -> align left  Numeric field -> align right  Date field -> align center |  |
| 3.2 | Check alignment of fields within the layout | Avoid: |  |
| **4** | **Read-only fields** |  |  |
| 4.1 | Check color | Same color as the back ground |  |
| 4.2 | Check keyboard navigable | No keyboard navigable |  |
| **5** | **Default button** |  |  |
| 5.1 | Check existing a default button  Ex: “Enter” to select the default button on screen  “Esc” to close the popup  When a confirmation popup is open, default focus on the default button. |  |  |
| **6** | **Standard format** |  |  |
| 6.1 | Check standard formats:  Entire Numbers  Floating Numbers  Date | ZZZ0  XXX0.X0 or X'XX0.X0  The date is formatted correctly.  The application works correctly with the configured locale in customer environment. |  |
| **7** | **Tabular** |  |  |
| 7.1 | Check the tabular sequence | The tab sequences are correct (left-right, top-bottom) |  |
| **8** | **Menu** |  |  |
| 8.1 | Check the operations of the menu items of the menu by mouse | The behaviors are correct according to the design document.  Sub-menu, menu item which open a dialog, menu item with short key … |  |
| 8.2 | Check if all menu options are visible and accessible according to access rights |  |  |
| **9** | **Standard language** |  |  |
| 9.1 | Check that page is compatible with chosen mark-up language (html4, xhtml 1, etc…) | Page can be checked on W3C website  http://validator.w3.org/ |  |
| **10** | **Multilingual text** |  |  |
| 10.1 | Check GUI object text labels (fields buttons, menus, toolbar tool tips, labels, etc.) in all application's languages (D, F, E, I). | The label texts are correct in all application's languages |  |
| 10.2 | Check text of the messages | The message texts are correct in all application's languages |  |
| 10.3 | Check text of the reference data (combo box) | The texts of reference data are correct in all application's languages |  |
| **11** | **Messages** |  |  |
| 11.1 | Check message title | The title of the message is correct (error, warning, question, information) corresponding the specific case |  |
| 11.2 | Check icon, font, content, color | The icons, font, content, color of the message are correct corresponding the specific case |  |
| **12** | **Search result list** |  |  |
| 12.1 | Any list must be sorted by default | Check order |  |
| 12.2 | The search result list should return a limit amount of elements (e.g. max rows = 300) | The search result list returns a limit amount of elements even the result is > limit according to the search criteria.  In this case, there should be a sign to let the user know. |  |
| **13** | **Focus** |  |  |
| 13.1 | Check default focus when the screen is opened | The first editable field gets the focus when the screen is opened |  |
| **14** | **Data sorting** |  |  |
| 14.1 | Check data in list box, combo box, table is sorted by default | Text 🡪 alphabet  Date 🡪 chronologic order  Or according to specification |  |
| **B** | **General Operation Check** |  |  |
| **1** | **Default values** |  |  |
| 1.1 | Check the default values of the items: text items, numeric items, list items, radio buttons, check boxes... | The default values are correct according to the design document |  |
| **2** | **Max length** |  |  |
| 2.1 | Check max length of the items: text items, numeric items, editable list items... | The max length of the items are well controlled |  |
| **3** | **Mandatory fields** |  |  |
| 3.1 | Check mandatory fields in Create and Update processes | In case of error, the screen should indicate which field is missing |  |
| **4** | **Correct border data** |  |  |
| 4.1 | Check that inputting HTML tags in fields has no effect on page rendering | For example : <table> or <tr> or <script>alert(1)</script> |  |
| 4.2 | Check the correct border data for the items:  Number: min value, max value  Text: empty string, max length string, string  contains special character: ', %, \_  Date: first date, last date  Note: Of course, the correct border data has to be suitable to specific business rules | The data is recorded correctly in DB |  |
| 4.3 | File upload component: check file type and size before processing.  File type: xls, xlsx, image file format (gif, jpg …)  Max file size allowed: 500Kb, 1Mb … | Error message should clearly show the supported file type and allowed max file size to be uploaded.  In case of import error, the error message should indicate the line numbers having error. |  |
| **5** | **Incorrect data** |  |  |
| 5.1 | Check the incorrect data for the items:  Number: < min value, > max value, text data  Date: 0/1, 32/1, 29/2, 30/2, 31/4, 31/6, 31/9, 31/11, null date | Show an error message for the specific item whose value is not correct |  |
| 5.2 | Check incorrect data cannot be input through copy/paste |  |  |
| 5.3 | Test that SQL-injection is impossible (security) | Check on internet definition of SQL-injection attacks.  With prepared statement, these attacks are blocked by design. |  |
| **6** | **Date interval** |  |  |
| 6.1 | Check with start date > end date | Show an error message for the specific item whose value is not correct |  |
| **7** | **Web navigation** |  |  |
| 7.1 | Check management of refresh button | Check management of refresh button special for input screen (since this depend on the behavior of the browser, some post again the form, some query again the URL). Correct error messages must be shown |  |
| 7.2 | Check management of back and forward buttons | Back and forward buttons must be managed |  |
| **8** | **Double submit** |  |  |
| 8.1 | Check that it’s impossible to submit twice by error the form | Clicking twice has the same effect on the server as clicking once |  |
| **9** | **Standard messages** |  |  |
| 9.1 | Check save confirmation request when changing context. | Whenever a context is left in which there has been a modification, a confirmation message box should be displayed asking user to confirm before leaving.  Ex: Data modified, do you really want to leave this page without saving data?”  “Yes/No” buttons to allow user to confirm.  Yes will lose all unsaved data. |  |
| 9.2 | Check delete confirmation request:  Click delete button to delete a record | An OK, Cancel message must appear to confirm the user to delete a record.  Depending on the user's choice, the program behaves correctly:  If OK is clicked, delete permanently the current record and the list highlights the next record.  If Cancel is clicked, do nothing |  |
| 9.3 | Check referential integrity error on delete | The application traps all restricted deletion by showing an appropriate error message. |  |
| 9.4 | Check no data found error: | When saving a record which does not exist any more in DB, an error message must appear to announce the user |  |
| 9.5 | Check concurrent update error | The program does not allow 2 (or more) users can update one record of data at a time. First user can save, the others will receive an error message and their modification cannot be saved. |  |

1. PL can put NA if he considers this check is useless in the context of the project. [↑](#footnote-ref-1)