Unit & Integration Testing Checklist

Culled From *"**Standard System Testing Checklist**: For FileMaker Systems.*
Prepared by CoreSolutions Software Inc."

User Interface – Layouts

- Is the tab order correct? (Check all layouts — including find layouts and pop-up windows.)
- Is the field behaviour set correctly (e.g. in case a return should be used to go the next field)?
- Are there any layouts that are not required and need to be deleted?
- Have you checked for consistency in layouts? (e.g. buttons in same position, text colour, etc?
- Check all layouts — including find layouts and pop-up windows.)
- Are field formats consistent? (e.g. are all date fields formatted the same, e.g. Jan 26, 1999?
- Are there tooltips/script triggers assigned to objects that don't require them or that are assigned incorrectly?
- Have all script triggers been tested to make sure they work correctly?
- Are the correct page titles displayed below header and browser windows?
- Are mandatory fields indicated with a '*'?
- If the formatting of page fonts text types is handled through CSS; page should still be readable without CSS on.

User Interface – Buttons

- Has each button been checked to make sure it performs the correct script or action?
- If the button runs a script, has the script been tested (and does it use named parameters)?

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Field Definitions & Validations

- Have calculation fields been checked to ensure the resulting calculations are correct?
- Do field names conform to our standards and naming conventions?
- Have all fields that require validation been tested? (Note: Check the specs for validation rules)
- Have you checked that fields using centrally stored value lists (as in Defaults file) are assigned the proper value list and not an old local version?
- Verify Maximum Length validations
- Verify Numeric only validations
- Verify SIZE and LENGTH are set for all text boxes
- Verify Mandatory field validations
- Verify rules group associated with questions on page. E.g. Pregnancy question for females only.

Driver

- Verify Exit button takes user back to welcome page after warning pop-up
- Verify Nav bars take user back to the correct page
- Verify invoking page from previous page
- Verify invoking page from following page

Processing

- Verify cleanup of unrelated data
- Verify delete of application data
- Verify insert of application data
- Verify retrieval of application data
- Verify update of application data

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Value Lists

- Have any value lists been defined that are not needed, that can be deleted?

- Have value lists using relationships (that might perform slowly) been avoided?

Relationships

- Have all relationships been checked to ensure that the 'allow deletion of related records' function is appropriately set?
- Is the Primary Key based on a table code and an auto-enter serial number and non-modifiable?
- Do the Primary Key and Foreign Keys have the same field type?
- Do table occurrences conform to our standards and naming conventions?

Scripts

- Does each script begin with our standard comment block?
- Is the comment block up to date?
- Are there scripts listed in the Scripts menu that should not be?
- Have Startup scripts been tested thoroughly?
- Have Shutdown scripts been tested thoroughly? Does closing one file or the main file close the rest of the files in the system?
- Have all script parameters been tested?
- Have global/local variables been tested?
- Have any steps been re-enabled if they were disabled for testing (and vice versa)?

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Custom Functions

- Have all custom functions been tested?
- Have exit conditions for recursive functions been tested?
- Do custom functions conform to our naming standards and conventions?

Custom Menus (if applicable)

- Have all items in all custom menus been tested?
- Have scripts, which set custom menus, been tested?
- Have all scripts being run from custom menu items been tested?

Coding Standards & Practices

- Ensure Proper usage of style sheets (.css)
- Maxlength property should be set on all textbox controls
- Code should be readable and easy to follow (proper indentation, etc.)

Functionality

Ensure that:
- Drop down boxes have correct values from reference tables
- Client-side validations perform correctly
- Correct error message from properties file displays
- Server-side validations perform correctly - All validations must exist on server side
- Default action occurs when user hits enter. Default action is 'Next'

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Access Privileges

- Have privilege sets been set up?
- Have user accounts / External Authentication Groups been set up?

Cross Platform

- Is the appearance consistent on both platforms?
- Is the usability of the system the same on both platforms?

Networking

- Have you tested features that may not be network friendly? (e.g. dynamic value lists, temporary storage of records to facilitate an import/export or report.)
- Has Sharing been set correctly on all files?
- Are checkboxes or radio buttons being used in a solution that will be used over RDP? (these features work very slowly over RDP)

Specifications

- Have you reviewed the specs and tested each requirement to ensure it has been implemented and is working correctly?

Other Software

- If plug-ins are being used — have they been thoroughly tested? (Are auto-update procedures working... and was the latest version of the plugin sent to the client?)
- If there is interaction with other technologies or the operating system, have they been thoroughly tested?

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Pre-Installation Testing

- Have all test data been deleted from the files?
- Have all auto-enter serial numbers been set to their proper initial values. (In most cases this will be 1.)

Installation

- If an installation procedure is required that is to be performed by the developer, have you documented and tested that procedure (ex. Data migration from old system)?