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## Adilas.biz Developer's Guide, Rules, & Sign-Off Doc

Use this document as a self-evaluation and guideline while coding and before going to do code sign-off:

- **Does it work?**
- **Can you make it fail?**
  - o Hit all if statements and error messages
  - o We param all incoming values
  - o We like to run validation on all incoming FORM and URL params
    - If using both FORM and URL, does your page switch or favor one scope or another? Is that clear where that switch happens?
  - o We Scope all variables – variables, FORM, URL, session, arguments, application, CGI, etc.
    - One exception is in CFC's. We usually don't use the variables scope (for local vars within a function). We do use the arguments scope in CFC's.
  - o What about try/catch blocks and other general error handling?
    - Often we use try/catch blocks for queries, special logic, outside API socket calls, or places where we may not get everything we are looking for.
  - o How much data did you use for checking things? Is this typical of the live environment? What about pagination? Anything over 200 records needs pagination.
  - o Did you test for different values such as positives, negatives, zeros, strings, blanks, numerics, dates, and other possible hacks, etc.? Think different/random scenarios or different use cases.
- **How are your comments?**
  - o Did you add a modified page log at the top?
  - o We comment everything... this helps ourselves, other developers, and even our clients.
- **Did you re-read it and clean it up?**
  - o Check for extra dumps and aborts
  - o Whitespace
  - o Check for extra variables or un-used code
    - Did you copy and paste from another spot? Did you need everything that you copied? Clean it up – where needed.
  - o Alphabetizing things
    - We alphabetize params, method call arguments, queries (big selects, inserts, and updates), etc. If there are more than 3 values (fields, variables, arguments), we probably want them alphabetized.

- Trimming things
  - We trim in and out of all method calls
  - Any time we get URL or FORM scope stuff – basically any user input
  - All database inserts and updates. Keep the data clean and tight.
  - We don't trim full structures or arrays. That causes problems.
- Naming convention
  - Do your variables make sense?
    - Recommendations: use all lower case, camelCaseStuff, or use\_under\_scores
    - All queries start with “qry” – qryGetCustomers or qryCheckTemplates
    - All database fields are all lower case with under scores
    - We like structures to have an “\_st” at the end – myTemp\_st or lineItems\_st
    - We like arrays to have an “\_array” at the end – my\_sample\_array or myMasterHolding\_array
    - We like lists to have an “\_list” at the end – temp\_id\_list or customerId\_list
    - Most CFC's, methods, and function arguments have the camelCaseVersion of the actual field name (where possible). For example: the database field is first\_name, the argument would be firstName
    - Most page names are all lower case with underscores – index.cfm or add\_edit\_custom\_settings.cfm
    - Most action pages end in “\_action.cfm” – add\_edit\_time\_action.cfm or update\_settings\_action.cfm
    - Please watch out for reserved words or words that may be used in code. If needed, add the phrase “temp”, “current”, “my”, or “use” to help those values out. Example: useDate, tempStatus, currentId, etc. You get the idea.
- Did you retest it? Please make sure it still works after you have modified and cleaned it up.

- **How tight and good are your queries?**

- How are your joins?
- How many records are you expecting?
  - Did you check for 0 record count?
  - Did you check for a single record count?
  - Did you check for multiple records?
- Did you limit by corp?
- Did you limit by a status field?
- Remember single quotes for strings, CreateODBCDate stuff for dates, numerics are just plain, etc.
- Did you put an order by clause (if more than one possible record)?

- **How is the formatting and CSS stuff?**
  - o Does your code match the existing style and/or design of the system?
  - o All div tags and tables need classes. If the CSS class is unknown, use “basicText” as the class name. See this reference guide for available CSS classes:
    - <https://www.adilas.biz/css/>
  - o What about the different preset themes?
    - Does it work on the different themes?
      - Classic
      - Geometry, Blue Pastel, The Project, Armored Car
      - AFB Snow Owl – as a note, this one does go a little bit deeper for a more modern look and feel (mobile ready and such)
      - Different white labels and bulk black box themes
  
- **On CFC's** (coldfusion components – methods and functions)
  - o Did you declare the local vars?
  - o All error messages are returned as a structure vs. a page include/abort.
  - o When calling a CFC or a method, use a path similar to:  
component="#application.pathToMainCFCs#security\_2" – this is on normal .cfm pages and when components call other components.
  - o If changing a method, did you search to see where else the method is used?
    - Did you update all other occurrences of the method call?
    - What about in the Web/API land? Did you update things there?
  
- **Did you script any database changes?**
  - o All database changes need to be scripted so that all servers and other developers can recreate the same tables and values. Try to keep things standard as much as possible.
  - o In SQL, what about defaults and possible records and values that have already gone under the bridge? Make sure and think about those values as well. Are any updates (going backward) needed? What about new creations and code going forward?
  - o If you need a database table for a custom project, please use the “black\_box\_something\_corpid” format where the words black\_box are required. The value something is what the table does and/or is. The value corpid should be the corporation id number that uses that table. Example: black\_box\_sub\_locations\_555 or black\_box\_pricing\_rules\_888
  
- **What about documentation? Help files? News & Updates? Web/API documentation? Etc.**
  - o It is very easy to leave this out... please try to help where possible.
  - o This may also include help files, user manuals, videos, news and updates, etc.
  
- **Are your pages black boxed? If yes, did they follow the black box standards?**
  - o If breaking pages into sub pages, you may need to add an additional ../ to any error messages in order to get the paths right. Please test and hit the error messages if breaking a page apart.
    - Example: <cfinclude template=".././message.cfm">

- Convert all CFC paths to the #application.pathToMainCFCs#.some\_page path (more details above in the normal to do list)
- Check for the word “black” to see if there are any older black boxes or code that needs some lovin’. Please fix and bring all older code into compliance.
- Check for “mainNavMenu”. If yes, change the div tag to:
  - `<div id="mainNavMenu" style="display:none">`
  - Get rid of the javascript at the bottom of the page that forces the display to hidden. This is for icon menus. The change to the div tag above will do the trick.
- When debugging the page, check to make sure that all eight standard black box pieces are being pulled in. See top\_secret/secure/GetSecurePaths.cfc for more info on black boxes. The normal eight are:
  1. full - custom logic and/or a full take over - this is above any html tags
  2. top - start of html to start of body tag - CSS, scripts, meta tag stuff
  3. header - below the body tag - repeating logos and navigation for each page
  4. top\_mini - optional - below the header and above the main page content
  5. body - main meat and/or content for the page
  6. bottom\_mini - optional - below the main meat or content and above the footer
  7. footer - repeating logos and navigation
  8. bottom - closing body and closing html tag – also any special scripts that are needed
- Action pages usually only have two black box pieces. They are a full takeover and a bottom mini.
- If using the “getCustomLogic” method, please provide a sample of what the page path would look like. This is a custom black box option. See the top\_secret/secure/update\_cart.cfm page for samples. Just search for “getCustomLogic” to see a couple of usage examples.
- Also, make sure any date fields have the datepicker class applied. This helps us show the date pickers widget vs. static text fields. Sample:
  - `<input type="text" name="start_date" value="" class="datepicker" />`
- If black boxing a database table, please see the scripting database section higher on this page. Search for “black\_box”.

- **Does your project deal with 3<sup>rd</sup> party solutions or white labels?**

- Did you get approval from Brandon and Steve? This is required. As a general rule, Steve is the master of all 3<sup>rd</sup> party solutions including white labels.
- How well did you define what is being turned on/off (API sockets or virtual windows and doors)? We need to disclose as much as possible and let our clients know what windows and/or doors have been opened or what data is exposed to these 3<sup>rd</sup> party pieces.
- The Adilas 3<sup>rd</sup> Party Solutions Page is a form or advertising. We recommend that the value be at least \$1,000 to \$5,000 be on that page. If you get extra monies, we are ok if you keep it (please check with Steve). We ask that you credit us some hours to help build out the end points, test API connections, increase security, and help transition the 3<sup>rd</sup> party options over into the Adilas Market pages and setting.

- We do allow white labeling or bulk black boxing of code and pages. This usually goes through a different file/folder structure. All white labeling must be merged into master and cleared by Brandon and Steve. We want to know what is going on there and pieces are virtually opened and closed. White labeling may be an additional fee. Once again, check with Steve.
  - Note about bulk black boxing... Any page that deals with black box code does a three-way check. It first looks for individual corp-specific pages (single black box stuff). It then checks for white label or bulk black box stuff (actual file/folder structures). The final check and/or fallback is the classic files and folder. If no other files are found, the classic files will be used.

- **Code Management - What about Git, Bit Bucket, Branches, and Pull Requests?**

- Did we clean that up?
- Was it merged with master?
- Was it signed off?
  - At least two sets of eyes per page (peer reviewed)?
  - Tested before going live and hopefully tested on another machine?
  - Let's make sure we are delivering good stuff.
- Was it pushed to live servers?
  - Which one(s)?
  - When was it pushed (we try to push in non-peak times – we have had disasters pushing right in rush hour traffic – especially for customer, invoice, quote, and cart stuff). Peak usage times are between 9 am and 9 pm. Best times are early in the morning or way after normal business hours. Some of the clients are open until midnight.

If you have questions, please contact your supervisor, lead, and/or project manager. If needed, you could always call Brandon Moore with Adilas and he could point you in a good direction. 435.881.1536. Thanks and enjoy!