Deliverables self-checklist for programmers

Version 1.0

March 26, 2019

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No		Specific category	Check point			Note	architecture			Checked b	Date	Comment
					dependent		Screen	Rest	Batch			
1	All		Line break code in	- The line break code in files must be the code		* Example	X	X	X			
			files	specified for the project.		Files such as Java, SQL, JSP, Shell and config files must all be checked in the same way.						
						be checked in the same way.						
2	All	General	Character code in	- The character code in files must be the code		* Example	X	X	X			
			files	specified for the project.		Files such as Java, SQL, JSP, Shell and config files must all						
						be checked in the same way.						
3	Java	General	Judgment of "" or	- The following API provided by Nablarch must	Χ	* When checking whether a value is set	Х	Х	Х			
				be used for "" or Null judgments.		Incorrect:						
				- Check whether a value is set		if (!"".equal(value)) {}						
				->StringUtil#hasValue		if (value != null) {}						
				- Check whether no value is set		if (!StringUtil.isNullOrEmpty(value)) {}						
				->StringUtil#isNullOrEmpty								
				- Unnecessary logical operators must not be		Correct:						
				used.		if (StringUtil.hasValue()) {}						
				Example of unacceptable operator:								
				if(!StringUtil.isNullOrEmpty(hoge))		* When checking whether a value is not set						
				Use StringUtil#hasValue in this case.		Incorrect:						
						<pre>if ("".equal(value)) {} if (value == null) {}</pre>						
						if (!StringUtil.hasValue(value)) {}						
						ii (:Striigotii:iid3vaide(vaide)) {}						
						Correct:						
						if (StringUtil.isNullOrEmpty(value)) {}						
4	Java	General	Joining of character	- The character string "null" cannot be used to		* How to address this	Х	Х	Х			
			strings	join character strings that contain a null		To join character strings that may be null, use a method						
				character.		such as (Apache Commons) StringUtils#join.						

Solution General Close process during reading and writing of files Composits below to check whether there is a close process	
writing of files close process. (1) When writing to HttpResponse using DataRecordResponse -> Not needed as a close process is performed on the framework side. (2) When writing a file using FileRecordWriterHolder -> Not needed as a close process is performed on the framework side. -> However, FileRecordWriterHolder can only be used during batch processing (it cannot be used during steen processing). (3) When reading and writing files using DataRecordFormatter -> A close process must be executed. (4) When reading and writing files using a different class (standard Java class) -> A close process must be executed. (4) When reading and writing files using a different class (standard Java class) -> A close process must be executed. (5) Java General Method arguments - Unused arguments must not be defined The minimum necessary arguments for the method must be defined The minimum necessary arguments for the method arguments - Boolean must be passed to the method arguments. * Example: If only one property in Dto is used, use only the property (not Dto) as an argument. * Reason In many cases, it is best to branch at the origin of the call and call separate methods.	
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when processing these values. and call separate methods.	!
	!
	!
	!
8 Java General Magic numbers - Magic numbers must be changed to	
constants and given suitable variable names.	!
	!
9 Java General Variable names - Variable names that are too abstract must * Variable names that are too abstract X X X	!
that are too not be used. Example of an unacceptable name: Pattern PATTERN	!
abstract This variable name does not indicate the purpose of the	· ·
pattern. The intent needs to be clear from the variable	'
name.	· ·
Example of a correction: EXTRACT_HOSTNAME_PATTERN	· ·
	'
10 Java General Type-specific - Type-specific names must not be used for * Examples X X X X	
variable and variable names or method names. Examples of unacceptable names: XXXMap, XXXStr, etc.	· ·
method names	'
	<u> </u>
11 Java General Names of methods - Names such as isXXX, hasXXX or canXXX * Example X X X X	
returning Boolean must be used. Example of an acceptable name: hasError	
- A name that clearly indicates the return ->It can be envisioned that true will be returned in the	·
value (true or false) must be used in the area event of an error.	ì
indicated by XXX.	l
12 Java General Character string - Constant equals(hoge) must be used (not * Reason X X X X	
The same as a series of the se	
comparison with hoge.equals(constant)). hoge.equals(constant) may cause a NullPointerException.	
constants	

13	Java		Method for judging zero items	- Collection#isEmpty() must be used for this judgment when handling collections.	* Reason The code will be too long if zero items are judged after acquiring the size.	X	X	X			
14	Java	General	Dates	- The date format set to be used must not be incorrect.	* Examples Business date, system dates, etc.	Х	Х	Х			
15	Java		Nest for method calls	- Up to two method call nests can be used.	* Reason Readability decreases if too many method calls are included in a method argument. Example of unacceptable code: setZZZ(convertXXX(getXXX(hoge,huga),getYYY(moge,moga).toString().subString(0,12))); Example of acceptable code: String foo = getXXX(hoge,huga); String bar = getYYY(moge,moga).toString().subString(0,12); setZZZ(convertXXX(foo, bar));	Х	X	X			
16	Java	General	Sorting order of methods	- The order "public, protected, private" must be used.		Х	Х	Х			
17	Java	Action	Error destination	- A forwarding destination must be set correctly for errors such as exclusive errors and validation errors.		Х					
18	Java		Automatically set items	- Values that are set automatically, such as @CurrentDateTime, cannot be set with individual business logic.		X	X	X			
19	Java	Action	Instance variables	- Actions must not have instance variables. X	* Exception Cases in which functions such as the counter of batch output items need to be achieved using an instance variable.	х	X	X			
20	Java		Domain definitions for forms	- Domain definitions specified in the specifications must be checked and the close investigation process defined in the domain definitions must be correctly implemented.		X	X	X			
21	Java	Database access	Exclusive control	- Exclusive control using UniversalDao must be X implemented for update processes.	* Implementation method 1. Store the records to be updated in an entity. *For screens, the above entity is stored in a session store when displayed for the first time and is held for the duration of the request. 2. Overwrite the items to be updated in the entity. *Version numbers do not need to be overwritten in the entity as these are updated automatically by the framework. 3. Execute the update process using UniversalDao.update(entity).	Х	X				

		access	Database access	- As a general rule, UniversalDao must be used for database access A batch execution method (UniversalDao#batchInsert, etc.) must be used if the same SQL syntax is issued multiple times.	X	* Operations provided by UniversalDao - Registration/batch registration - Registration/batch registration with a primary key specified *Used only for updating under exclusive control - Deletion/batch deletion with a primary key specified - Searching with a main key specified - Searching using SQL syntax	X	X	X		
23	Java		Multiple search results	 If SQL enabling multiple search results to be acquired is issues, the number of results must be judged correctly. If one result is sufficient, SQL must be implemented so that only one result can be acquired. SqlResultSet#get(0) must not be executed for SELECT expressions for which multiple results are returned. 	X	* Reason If SqlResultSet#get(0) is executed for SELECT expressions that return multiple results, this may be due to issues such as missing search condition specifications or insufficient considerations during the design stage. Check the specifications.		X	X		
24	Java	Database access	Zero search results	- Implementation when there are zero search results must be taken into account. Check the specifications and confirm that one of the following methods is used. (1) If the specifications indicate that zero results are possible - Zero results must be handled as indicated in the design specifications (e.g. error handling consisting of an on-screen user notification) (2) If the specifications indicate that zero results are not possible - Handling of zero results must not be implemented.	X	* Examples of handling of zero search results - Displaying "No search results" on screen - Raising an application exception	X	X	X		
25	Java	access		 - UniversalDao#countBySqlFile must be used. - SqlResultSet#isEmpty must not be used, as this method judges the number of results on the current page. 	Х		X	X	X		
26	Java		Acquisition of values from SqlRow	- A suitable acquisition method must be used (not casting with SqlRow#get()).	Х	* Examples SqlRow#getString(), SqlRow#getBigDecimal(), etc.	Х	X	X		
			Button submission control	- type="button" must be specified when using the following custom tags so that submission is not executed when the enter key is pressed. - n:button - n:popupButton - n:downloadButton	X	* Examples type="button" specified as a tag attribute. Example of unacceptable code: <n:button uri="hoge/000">fuga</n:button> Example of acceptable code: <n:button type="button" uri="hoge/000">fuga</n:button>	Х				
28	JSP		Linking of popup windows for input items	- n:changeParamName must be used when changing the request parameter name of information input in a screen and sending the information to a popup window.	X	* Reason When the request parameter name is changed using n:param before being sent, the value that is sent is the value indicated when the screen is displayed for the first time.	X				

20	JSP	Conoral	Submission outside	- n:a must be used (not n:submit) for	V	* Reason	Ιν		1	Ī	$\overline{}$
29	JSP		the application	submissions outside applications.	^	The n:a tag needs to be used because submissions outside	^				
			ите аррпсацоп	Submissions outside applications.		the application do not have a request ID and are all					
						inactive when used as "submit" links.					
						inactive when used as submit links.					
						* Franking					
						* Exceptions					
						- When linking values to the main screen from a popup					
						window					
						- The close button					
						- Links in the page					
20	JSP	General	Screens with only	- For screens with only one input item with an	v	* Examples	\ \	+			
30	JSP		one input item	<pre><input type="text"/> format (<n:text>, etc.),</n:text></pre>	^	- Screens where there is only a search condition (search	^				
			one input item	this must be placed above the text box		box) and a search button					
				containing dummy text (display:none &		- Screens where there is only search condition 1 (radio					
						button), search condition 2 (text box) and a search button					
				disable) as an error occurs if Enter is pressed with the focus on the text box.		buttory, search condition 2 (text box) and a search buttor					
				with the locus on the text box.		*This is not dependent on the version of Nablarch. It is					
						· · · · · · · · · · · · · · · · · · ·					
						caused by the browser.					
31	Testin	General	Assertion of	- A suitable assertion method must be called		* Examples	Х	Х	Х		
	g		expected values	for assertion targets.		- assertEquals type					
			•			- assertSqlRowEquals					
						- assertSqlResultSetEquals					
33	Testin	General	Table assertion	- EXPECTED_COMPLETE_TABLE must be used	v	* Reason	V	V	V		
32	a	Gerierai	Table assertion	for table assertion.	^	Omitted columns are not targets for comparisons when	^	^	^		
	٦			Tot table assertion.		EXPECTED_TABLE is used, but are compared as columns					
						containing default values when					
						EXPECTED_COMPLETE_TABLE is used.					
						EXPECTED_COMPLETE_TABLE is used.					
-	T				.,		.,		.,		
33	lestin	General	Exception testing	- 	X		X	X	X		
	y			@Test(expected=IllegalArgumentException.cla							
				ss) must be used (sending of exceptions must							
				not be confirmed using try-catch). However,							
				ExpectedException must be used when							
				confirming the details of exceptions.							
I				To accelling to the second of							
				- If multiple types of exception occur for one							
				method, a separate test method must be used							
				for each type of exception.							
	<u> </u>	<u> </u>						<u> </u>		 	
34	Testin	General	Reviewed content	- Content to be reviewed must be checked to		* Reason	X	Х	Х		
	g			confirm that there are no omissions.		The following files are easily omitted, so care needs to be					
						taken.					
						- SQL files					
						- XML files					
						- fmt files					