## **Deliverables self-checklist for programmers**

Version 1.0

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No	Broad	Specific	Check point	Details of check	Nablarch	Note	Check fo	r each pr	ocess	Checked by	Date	Comment
	categor	category	Circuit point	Details of check	Trabial Cit		architect	-	00000	Checked by		
					dependent		Screen	Rest	Batch			
1	All	General	Line break code in files	- The line break code in files must be the code specified for the project.		* Example Files such as Java, SQL, JSP, Shell and config files must all be checked in the same way.	X	X	X			
2	All	General	Character code in files	- The character code in files must be the code specified for the project.		* Example Files such as Java, SQL, JSP, Shell and config files must all be checked in the same way.	Х	Х	Х			
3	Java		Judgment of "" or Null	- The following API provided by Nablarch must be used for "" or Null judgments Check whether a value is set ->StringUtil#hasValue - Check whether no value is set ->StringUtil#isNullOrEmpty - Unnecessary logical operators must not be used. Example of unacceptable operator: if(!StringUtil.isNullOrEmpty(hoge)) Use StringUtil#hasValue in this case.	X	* When checking whether a value is set Incorrect: if (!"".equal(value)) {} if (value != null) {} if (!StringUtil.isNullOrEmpty(value)) {}  Correct: if (StringUtil.hasValue()) {}  * When checking whether a value is not set Incorrect: if ("".equal(value)) {} if (value == null) {} if (!StringUtil.hasValue(value)) {}  Correct: if (StringUtil.isNullOrEmpty(value)) {}	X	X	X			
4	Java		Joining of character strings	- Do not combine potentially null strings as the string "null".		* How to address this To join character strings that may be null, use a method such as (Apache Commons) StringUtils#join.	Х	Х	Х			
5	Java		Close process during reading and writing of files	- During reading and writing of files, refer to the points below to check whether there is a 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 screen 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.	X		X	X	X			

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6 Java	General	Method arguments	<ul><li>Unused arguments must not be defined.</li><li>The minimum necessary arguments for the method must be defined.</li></ul>	* Example: If only one property in Dto is used, use only the property (not Dto) as an argument.	X	X	X	
7 Java	General	Boolean method arguments	- Boolean must be passed to the method arguments, and branching must not be used when processing these values.	* Reason  In many cases, it is best to branch at the origin of the call and call separate methods.	X	Х	X	
8 Java	General	Magic numbers	- Magic numbers must be changed to constants and given suitable variable names.		X	X	X	
9 Java	General	Variable names that are too abstract	- Variable names that are too abstract must not be used.	* Variable names that are too abstract Example of an unacceptable name: Pattern PATTERN 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	X	X	X	
10 Java	General	Type-specific variable and method names	- Type-specific names must not be used for variable names or method names.	* Examples Examples of unacceptable names: XXXMap, XXXStr, etc.	X	Х	X	
11 Java	General	Names of methods returning Boolean	- Names such as isXXX, hasXXX or canXXX must be used A name that clearly indicates the return value (true or false) must be used in the area indicated by XXX.	* Example Example of an acceptable name: hasError ->It can be envisioned that true will be returned in the event of an error.	X	X	X	
12 Java	General	Character string comparison with constants	- Constant.equals(hoge) must be used (not hoge.equals(constant)).	* Reason hoge.equals(constant) may cause a NullPointerException.	X	X	X	
13 Java	General	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	Х	X	
14 Java	General	Dates	- The date type set to be used must not be incorrect.	* Examples Business date, system dates, etc.	X	X	X	
15 Java	General	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));	X	X	X	
16 Java	General	Sorting order of methods	- The order "public, protected, private" must be used.		X	X	X	

17 Ja	va Action	Error destination	- A forwarding destination must be set correctly for errors such as exclusive errors and validation errors.			X					
18 Ja	va Action	Automatically set items	- Values that are set automatically, such as @CurrentDateTime, cannot be set with individual business logic.	Х		X	X	X			
19 Ja	va Action	Instance variables	- Actions must not have instance variables.	Х	* Exception  Cases in which functions such as the counter of batch output items need to be achieved using an instance variable.	x	X	X			
20 Ja	va Form	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 Ja	va Database access	Exclusive control	- Exclusive control using UniversalDao must be implemented for update processes.	X	* 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).	X	X				
22 Ja	va Database access	Database access	<ul> <li>As a general rule, UniversalDao must be used for database access.</li> <li>A batch execution method (UniversalDao#batchInsert, etc.) must be used if the same SQL syntax is issued multiple times.</li> </ul>	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	Х	X	X			
23 Ja	Va Database access	Multiple search results	<ul> <li>If SQL enabling multiple search results to be acquired is issues, the number of results must be judged correctly.</li> <li>If one result is sufficient, SQL must be implemented so that only one result can be acquired.</li> <li>SqlResultSet#get(0) must not be executed for SELECT expressions for which multiple results are returned.</li> </ul>	Х	* 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.	Х	х	X			

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24	Java	Database	Zero search results	- Implementation when there are zero search	X	* Examples of handling of zero search results	X	X	X			
		access		results must be taken into account.		- Displaying "No search results" on screen						
				Check the specifications and confirm that one		- Raising an application exception						
				of the following methods is used.		J. J. Spr. State of Super-						
				(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.								
25	Java	Databaco	Method for	- UniversalDao#countBySqlFile must be used. )	~				X	+		
25		access		· · · · · ·	^		^	^	^			
		access	acquiring number	- SqlResultSet#isEmpty must not be used,								
				as this method judges the number of results								
			list search	on the current page.								
							<del></del>		1			
26	l l		Acquisition of	- A suitable acquisition method must be used	X	* Examples	X	X	X			
		access	values from SqlRow	(not casting with SqlRow#get()).		SqlRow#getString(), SqlRow#getBigDecimal(), etc.						
27	JSP	General	Button submission	- type="button" must be specified when using )	X	* Examples	X	+		+		
-/	33.	Cerrerar	control	the following custom tags so that submission is	•	type="button" specified as a tag attribute.						
			Control	not executed when the enter key is pressed.		Example of unacceptable code:						
				I								
				- n:button		<n:button uri="hoge/000">fuga</n:button>						
				- n:popupButton		Example of acceptable code:						
				- n:downloadButton		<n:button <="" td="" type="button"><td></td><td></td><td></td><td></td><td></td><td></td></n:button>						
						uri="hoge/000">fuga						
28	JSP	General	Linking of popup	- n:changeParamName must be used when	Χ	* Reason	X					
			windows for input	changing the request parameter name of		When the request parameter name is changed using						
			items	information input in a screen and sending the		n:param before being sent, the value that is sent is the						
				information to a popup window.		value indicated when the screen is displayed for the first						
						time.						
29	JSP	General	Submission outside	- n:a must be used (not n:submit) for	X	* Reason	X	+		+		
				submissions outside applications.	•	The n:a tag needs to be used because submissions						
			пс аррпсасіон	Submissions outside applications.		outside the application do not have a request ID and are						
						all inactive when used as "submit" links.						
						* Franchisms						
						* Exceptions						
						- When linking values to the main screen from a popup						
						window						
						- The close button						
						- Links in the page						
-	100											
30	JSP	General	Screens with only	- For screens with only one input item with an	X	* Examples	X					
			one input item	<input type="text"/> format ( <n:text>, etc.),</n:text>		- Screens where there is only a search condition (search						
				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						
				disable) as an error occurs if Enter is pressed		button), search condition 2 (text box) and a search buttor	n					
				with the focus on the text box.								
						*This is not dependent on the version of Nablarch. It is						
												1
						caused by the browser.						

3	1 Testin	General	Assertion of expected values	- A suitable assertion method must be called for assertion targets.		* Examples - assertEquals type - assertSqlRowEquals - assertSqlResultSetEquals	X	X	X		
3	2 Testin g	General	Table assertion	- EXPECTED_COMPLETE_TABLE must be used for table assertion.	x	* Reason Omitted columns are not targets for comparisons when EXPECTED_TABLE is used, but are compared as columns containing default values when EXPECTED_COMPLETE_TABLE is used.	X	X	X		
3	3 Testin g	General	Exception testing	- @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.  - If multiple types of exception occur for one method, a separate test method must be used for each type of exception.	X		X	Х	X		
3	4 Testin g	General	Reviewed content	- Content to be reviewed must be checked to confirm that there are no omissions.		* Reason The following files are easily omitted, so care needs to be taken SQL files - XML files - fmt files	x	X	x		

X: Dependency