

Code Review Checklist				
#	Items for Review	Developer	Reviewer	Comment
<b>Java</b>				
1	Is the number of lines in the file <= 2000 ?	YES	YES	
2	<p>Business object File header sample:</p> <pre>***** *****</pre> <p>*</p> <ul style="list-style-type: none"> <li>- Method Name : isValidLogin</li> <li>- Input Parameters : LoginDTO loginDTO</li> <li>- Return type : Boolean</li> <li>- Author : Hema Chowdary Byrapudi</li> <li>- Creation Date : 16-10-2015</li> <li>- Description : Validates the login credentials of the users</li> </ul> <pre>***** *****</pre> <p>/</p> <p>Are you following the above header conventions?</p>	NO	NO	
3	All files should start with a File Description Header	NO	NO	

4	Check with standards document whether you have used proper naming convention for Class Names.	YES	YES	
5	Remove all <ul style="list-style-type: none"> <li>• Unused variables, object declarations and methods.</li> <li>• commented codes</li> <li>• printStackTrace()</li> <li>• unwanted Javascript alert messages</li> <li>• unwanted packages</li> <li>• unwanted comments</li> <li>• remove System.out.println() messages</li> </ul>	YES	YES	
6	Use preparedStatement instead of Statement	NA	NA	

7	Hardcoded numeric constant & literals are not used except for loop index variables.	YES	YES	
8	Is all the variables used in functions are declared at the beginning of the function?	YES	YES	
8	Is there appropriate comments given to all the functions?	NA	NA	
10	Are all constant variable declared with public static final at the beginning of the variable declaration?	YES	YES	

11	<p>Are all the variables declared in a separate line          (Multiple variables should not be declared in a single line) ?</p>	YES	YES	
12	<p>a) Are the constant and variable names fall under [a-z] [A-Z] [0-9] range ?          b) Are the class and Interface names fall under [a-z] [A-Z] range?</p>	YES	YES	

	Are the valid Access Modifiers provided to methods and variables ? (i.e.: The methods should be declared 'private' unless they are used outside the class, 'protected' unless they need to be public )			
13		YES	YES	
14	No deprecated methods are used.	YES	YES	
15	Avoid multiple returns in a method. Return should be the last statement in the method	YES	YES	In controller methods, multiple return s
16	Is the code properly aligned	YES	YES	
17	Is your java doc comment proper	NA	NA	

	Avoid using variable names such as j k for loop counters follow same naming convention for the temporary variables also			
18		YES	YES	
19	Does all conditional and looping statements have open( { ) and closed braces( } ) even though if it has only one line of code?			
		YES	YES	
20	No infinite loops	YES	YES	
21	Is the size of collection not calculated inside loop?			
		YES	YES	
22	Does the name of class that inherits from Exception ends with "Exception"?			
		YES	YES	
23	No Empty Catch Block	YES	YES	

24	Are the enhanced for loop used for iterating the collections and arrays ?	YES	YES	
25	Is Log4j used to print the stack trace of the exception?	NA	NA	
26	Do all the methods have proper logging ?	NA	NA	
27	Is the word 'enum' not used as Class or variable name?	NA	NA	
28	Is the exception stack trace printed using 'error' method of log4j instead of 'debug' method?	NO	NO	
29	Is there any sensitive information like password or system details being printed in the log?	NA	NA	

30	No commented code exists	YES	YES	
31	Are String literals / Constants used first when comparing with variables? i.e., if ("H".equals(custType)) and not like if (custType.equals("H"))			
32	No redundant Code exists.	YES	YES	
33	Are the unnecessary and obsolete functionalities code removed?	YES	YES	
34	Is string comparison is not performed using == or != operator instead of equalsIgnoreCase?	YES	YES	

35	Is there user fully qualified class/interface names? (Package must be imported first and then used in the class/interface)	YES	YES	
36	Is Null check done at all applicable places ? String values should be checked with StringUtil.isNullOrEmpty()	YES	YES	
37	Are the objects assigned to null if they are not used in the subsequent processing ?	YES	YES	
38	Are static members referenced using the class name ?	NA	NA	

	Is the org.apache.log4J.Logger class referenced as static final variable in each java class ?			
39		NA	NA	
40	Are all the objects in session cleared after use?			
		NA	NA	
41	Do the class attributes are declared at the top of the class.(Applicable for Util Class) ?			
		YES	YES	
42	Instance variables should not be declared as public.			
		YES	YES	
43	Are the generics used wherever applicable?			
		YES	YES	
44	Is there an adequate comment is given for complex logics?			
		NA	NA	

45	Proper indentation is given for better code readability.	YES	YES	
46	Are all drop down values taken from property file if it is not fetched from database?	NA	NA	
<b>Performance Checks</b>				
47	Remove all Unused variables, object declarations and methods	YES	YES	
48	Are there any PrintStackTrace(), System.out.println Statements? If Yes remove the same from the code	NO	NO	
49	Is there used finally blocks for cleanup of variables?	NA	NA	Since we are using spring finally blocks

	Is the size of the collection objects are pre-defined if the size is pre-known? For Eg: List list = new ArrayList(3);			
50		NA	NA	
51	Imports should not made by using .*;	NO	NO	
52	Is object initialization not done inside loop?	YES	YES	
53	a) Are all unnecessary log statements removed? b) Are all System.out.printlns removed?	YES	YES	
54	Is there any hardcoded numeric constant & literals except for loop index variables?	YES	YES	

**SQL Queries Checks**

55	Have you tested all the SQL queries at the SQL prompt for all possible "Conditional display"?	YES	YES	
56	The Queries should be split up in different lines for different clauses in the query The Queries should be split up in different lines for different clauses in the query	NO	NO	
57	If more than one table used check if the joins between the table are appropriate?	NA	NA	
58	Is Query logged into the Logger before the execution?	NA	NA	

	All Queries key word should be in UPPER case and column name/variable should be in lowercase			
59		YES	YES	
<b>JSP</b>				
60	Is set the "session" directive to "false" (turn off the default HttpSession usage) ? In this case the JSP engine will not create an HttpSession by default. <@page session = "false">	NA	NA	

61	<p>JSP File header sample:</p> <pre>&lt;%--</pre> <pre>*****</pre> <pre>*****</pre> <pre>*****</pre> <pre>*****</pre> <pre>*****</pre> <p>* Description : Home page for the Internal Recruitment portal</p> <p>* Functionality : This Jsp page is the home page for the recruitment portal and allows users to login with their credentials.</p> <p>* Models Used : LoginDTO</p> <p>* Restrictions : N/A</p> <p>* Author : Hema Chowdary Byrapudi</p> <p>* Creation date : 16-10-2015</p> <p>* Modifications : Added required CSS to the page.</p> <p>* Author : Sharvil R Majmudar</p> <p>* Date : 17-10-2015</p> <p>* Change Description: Improves the look of the home page.</p>	NO	NO	
62	Is the business logic not mixed up with front-end presentation in the same file?	YES	YES	
63	Scriptlets should not be used along with javascript.	NO	NO	

64	Is there the right library name alone is imported instead of doing imports with * ?	NO	NO	
<b>Java Script</b>				
65	Is null checks done before using any objects?	YES	YES	
66	Is all the variables are declared on start of the function?	YES	YES	
67	Is javascript functions placed in js instead of JSP?	NO	NO	The back button disable function needs to be implemented.
<b>Security</b>				
68	Timeout is set for sensitive pages in the web application	NA	NA	
69	Error message does not expose details about the server software configuration, DB name, table names, user name etc.	YES	YES	

70	Account is locked after repeated wrong attempts	NA	NA	
71	Hidden parameters embedded in the page are validated against the original values used when the page is submitted back	NA	NA	
72	Log files and script files are maintained in a protected areas not accessible to web user	NA	NA	
	<b>Checks on the Validation</b>			
73	Please check the relevant points in the Test Cases and validations document are passed / taken care in your component.	YES	YES	

74	Have you included try-catch block in all the methods that throw Exceptions?	YES	YES	
75	Restrict the user input in the text fields/text area by setting the maximum length and proper data validations.	YES	YES	
<b>General Checks</b>				
76	Is the code adhering to class diagrams?	YES	YES	
77	Is the context path referred instead of IP address of the system?	YES	YES	









tatements exist for redirecting the control to the appropriate JSP page.











s are not used.









s the page name for which the js is applied. So the javascript cannot be applied externally.