Defect ID:	Issue 01			
Problem Title:	Invalid result while the computed value exceeds the integer limit (add, multiply)			
Environment:	Chrome, Win10			
Defect Type:	□ Functionality			
Priority:	□ Medium			
Severity:	□ Medium			
Steps to	\$	1. Value1 = 2.147.483.647 (Integer.MAX_VALUE)		
reproduce:	2. Value2 = 2.147.483.647 (Integer.MAX_VALUE)			
	3. Select "addition"			
	4. Click "Calculate"			
	Actual result: -2			
	Expected result : 4.294.967.294	ŀ		
	Note: This is not exactly a product This is because of two's complet number is positive (0) or negative multiply by two), this happens: 011111111111111111111111111111111111	ment, ve (1).	where the leftmos When you add ma	t bit is used to signify if a
	<pre>We can change it return type and add cast to long numbers like this: public static long add(int a, int b) { long c = (long)a + (long)b + 1; return c - 1;</pre>			
	}			
ļ <u>.</u>	Another way – to throw an excep	otion w	then the result is e	exceed the INT range.
Screenshot:		Atac	cama TestCalc	
		Value 1:	2147483647	
	-		04.47.4000.47	1
		Value 2:	2147483647	
		@ 1.0°.1		
		addition		
		subtrac	tion	
		o multipl	ication	
		division	n	
			Calculate	
				-
		Result:	-2	

Defect ID:	Issue 02	
Defect or	□ Defect (Default)	
Enhancement		
Problem Title:	Uninformative error message for Web UI in case of Integer overflow	
Environment:	Chrome, Win10	
Defect Type:	□ Functionality	
Priority:	□ Low	
Severity:	□ Low	
Steps to	1. Open WebUI	
reproduce:	2. Value1 = 2.147.483.648 (Integer.MAX_VALUE + 1)	
	3. Value2 – any valid value	
	4. Select "addition"	
	5. Click "Calculate"	
	6. Write the error code and message	
	7. Send a POST request with the same data (via Postman, etc)	
	8. Compare error messages for UI and Post	
	Actual result: Message: For input string: " <value1>"</value1>	
	Expected result : Message should contain information about Integer overflow. See the	
Screenshot:	POST request example.	
Screenshot:	<u> </u>	
	HTTP Status 500 - Internal Server Error	
	Type Exception Report	
	Message For input string: "214748364777"	
	Popis The server encountered an unexpected condition that prevented it from fulfilling the request.	
	Proprise The server encountered an unexpected condition that prevented it from fulfilling the request. Exception	
	java.lang.NumberFormatException: For input string: "214748364777" java.lang.NumberFormatException.forInputString(Unknown Source)	
	java.lang.Integer.parseInt(Unknown Source)	
	java.lang.Integer.parseInt(Unknown Source) com.ataccama.qa.testcalc.webui.TestCalcServlet.parseIntFromParameter(TestCalcServlet.java:75)	
	com.ataccama.qa.testcalc.webui.TestCalcServlet.doPost(TestCalcServlet.java:44)	
	javax.servlet.http.HttpServlet.service(HttpServlet.java:660) javax.servlet.http.HttpServlet.service(HttpServlet.java:741)	
	org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53)	
	Note Celý výpis (stack trace) zdrojové chyby je dostupný server logu.	
	Note Celý výpis (stack trace) zdrojové chyby je dostupný server logu.	
	Apache Tomcat/9.0.33	
	Apache Tomcat/9.0.33 POST	
	Apache Tomcat/9.0.33 POST Can not construct instance of java.lang.Integer from String value '214748364777':	
	Apache Tomcat/9.0.33 POST	

Defect ID:	Issue 03		
Defect or	□ Defect (Default)		
Enhancement			
Problem Title:	WebUI: no value length limit for Value1 and Value2 text boxes		
Environment:	Chrome, Firefox, Win10		
Defect Type:	□ Functionality		
Priority:	□ Low		
Severity:	□ Low		
Steps to	1. Open WebUI		
reproduce:	2. Value1 = enter a long value (e.g. 11111111111111111111111111111111111		
	Actual result: There is no value length limit		
	Expected result: there should be the length limit (equal to 32-bit integer limit)		
Screenshot:			
	Ataccama TestCalc		
	Value 1: 64777666666666666666		
	Value 2: 0		
	value 2.		
			
i			

Defect ID:	Issue 04		
Defect or	□ Defect (Default)		
Enhancement			
Problem Title:	There is no trim() method to filter values input with trailing spaces		
Environment:	Chrome, Firefox, Win10		
Defect Type:	□ Functionality		
Priority:	□ Low		
Severity:	□ Low		
Steps to	1. Open WebUI		
reproduce:	Value1 = enter a value with spaces at the beginning and at the end		
	3. Click Calculate		
	Actual result: The exception is thrown		
	Expected result: the exception can be avoided in case of trimming the spaces.		
Screenshot:			
	Ataccama TestCalc		
	Ataccama resteate		
	Value 1: 332234423		
	value 1. 332234423		
	Value 2: 0		
	HTTP Status 500 - Internal Server Error		
	Type Exception Report		
	Message For input string: " 332234423 "		
	Popis The server encountered an unexpected condition that prevented it from fulfilling the request.		
	Exception		
	java.lang.NumberFormatException: For input string: " 332234423 "		
	java.lang.NumberFormatException.forInputString(Unknown Source)		
	java.lang.Integer.parseInt(Unknown Source) java.lang.Integer.parseInt(Unknown Source)		
	com.ataccama.qa.testcalc.webui.TestCalcServlet.parseIntFromParameter(TestCalcServlet.java:75) com.ataccama.qa.testcalc.webui.TestCalcServlet.doPost(TestCalcServlet.java:44)		
	javax.servlet.http.HttpServlet.service(HttpServlet.java:660)		
	javax.servlet.http.HttpServlet.service(HttpServlet.java:741) org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53)		
	Note Celý výpis (stack trace) zdrojové chyby je dostupný server logu.		
	and the state an		

Defect ID:	Issue 05		
Defect or	□ Enhancement		
Enhancement			
Problem Title:	Add exception handling to provide a message in case of invalid input		
Environment:	Chrome, Firefox, Win10		
Defect Type:	□ Functionality		
Priority:	□ High		
Severity:	□ High		
Steps to	Enter invalid values (integer overflow values, strings, etc)		
reproduce:	2. Click Calculate		
	There is an exception thrown.		
	Suggestion : it would be much more user-friendly if there was a clear message or		
Screenshot:	warning instead of exception.		
Screenshot.			
	Ataccama TestCalc		
	Value 1: 332234423		
	Value 2: 0		
	HTTP Status 500 - Internal Server Error		
	ITTT Status 500 Internal Server Error		
	Type Exception Report		
	Message For input string: " 332234423 "		
	Popis The server encountered an unexpected condition that prevented it from fulfilling the request.		
	Exception		
	java.lang.NumberFormatException: For input string: " 332234423 "		
	java.lang.NumberFormatException.forInputString(Unknown Source) java.lang.Integer.parseInt(Unknown Source)		
	java.lang.Integer.parseInt(Unknown Source) com.ataccama.qa.testcalc.webui.TestCalcServlet.parseIntFromParameter(TestCalcServlet.java:75)		
	com.ataccama.qa.testcalc.webui.TestCalcServlet.doPost(TestCalcServlet.java:44)		
	javax.servlet.http.HttpServlet.service(HttpServlet.java:660) javax.servlet.http.HttpServlet.service(HttpServlet.java:741)		
	org.apache.tomcat.websocket.service(httpserviet.java:741)		
	Note Celý výpis (stack trace) zdrojové chyby je dostupný server logu.		

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Defect ID: (Required)	System generated	
Author: (Required)	System generated	
Defect or Enhancement: (Required)	□ Defect (Default) □ Enhancement	
Problem Title: (Required)	Short one-line description	
Problem Description: (Required)	A precise problem description with screen shots, if possible	
Current Environment: (Required)	E.g. Win95 / Oracle 4.0 NT	
Defect Type: (Required)	Functionality (Default) Architectural Connectivity Consistency Database Integrity Documentation GUI Installation Memory Performance Security and Controls Stress Usability	
Priority: (Required)	☐ High (Default) ☐ Critical ☐ Medium ☐ Low	
Severity: (Required)	☐ High (Default) ☐ Critical ☐ Medium ☐ Low	
Status: (Required)	□ Open (Default) □ Being Reviewed by Development □ Returned by Development □ Ready for Testing in the Next Build □ Closed (QA) □ Returned by (QA) □ Deferred to the Next Release	
Status Description:	(Required when) Status = "Returned by Development," "Ready for Testing in the Next Build"	