Mango Project

Feature Review



Test Results

CS550: Software Design and Development Spring 2024

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Contents

1.	Data Report Charts Functionality	3
	Landing Page functionality	
3.	Horizontal CSV functionality	12

1. Report Charts Functionality

1.1. Feature Description

This feature aims to improve on the existing feature by providing the user the ability to add y-reference line (float value) and labels (of max char length 64) for each axis. This feature also gives the user the option to generate scatter or line plots. In the current version, the user can generate a report, and has the option to select the Point name, Data type, Colour, Consolidated chart. Individuals can then view the chart by clicking the "View Charts" button once the report is generated.

1.2. Test Case Review

		1. Data Re	eport chart Fu	nctionality		
Requirem	ent	,	Test Cases		Testing	Results
Mappin	g					
Requirements	Test	Requirements	Test	Pass Cases	Test	Date
ID	ID	•	Instructions		Result	
1.4.1,	1.1	Improved	1. Log into	In addition to	Pass	04/20/2024
1.4.2,		Descriptive labels	Mango server	Point name,		
1.4.3,		and Reference	using valid	Data type,		
1.4.4		lines check	credentials.	Colour and		
1.4.4			2. Click on	Consolidated		
			"Reports"	chart,		
			icon in	"Report		
			navigation	criteria"		
			bar. This	window shall		
			takes you to	include Chart		
			reports page.	Type, Title, x		
			3.Under	axis label, Y		
			"Report	axis label and		
			templates"	Y Reference		
			window,	Line.		
			select desired			
			sensor point			
			template.			
1.4.1.1	1.2	Chart Type Radio	Repeat test	Under Chart	Pass	04/20/2024
		buttons	instructions	Type, there		
			stated in Test	shall be radio		
			ID – 1.1	buttons to		
				select either		
				Line plot or		
				scatter plot.		

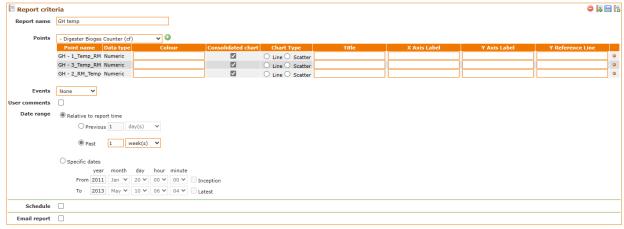
1.4.2.1	1.3	'Title' field input length check	1.Repeat test instructions stated in Test ID – 1.1 2. Input any string of length greater than 64 in Title field	The 'Title' field shall take input of only 64 characters.	Pass	04/20/2024
1.4.2.1	1.4	'Title' field Input check	1.Repeat test instructions stated in Test ID – 1.1 2. Input any string of length less than 64 in Title field. Include lower- and upper-case alphanumeric chars along with '_' in the string.	The 'Title' input field shall take alphanumeric characters and '_' special character only as a valid input.	Pass	04/20/2024
1.4.3.1	1.5	X & Y Axis labels input length check	1.Repeat test instructions stated in Test ID – 1.1 2. Input any string of length greater than 32 in X and Y axis label fields.	The 'X-axis Label' and 'Y-axis Label' fields shall take input of only 32 characters.	Pass	04/20/2024
1.4.3.2	1.6	X & Y Axis labels Input check	1.Repeat test instructions stated in Test ID – 1.1	The 'X and Y axis label' input field shall take alphanumeric	Pass	04/20/2024

			2. Input any string of length less than 32 in X and Y axis label field. Include lower- and upper-case alphanumeric chars along with '_' in	characters and '_' special character only as a valid input.		
1.4.4.2	1.7	Y Reference line field input(float/int)	the string. 1.Repeat test instructions stated in Test ID – 1.1 2. Input float/int	'Y Reference line' field shall take float and int value as	Pass	04/20/2024
			values in Y Reference line field.	input.		
1.4.4.2	1.8	Y Reference line field input	1.Repeat test instructions stated in Test ID – 1.1 2. Input string in Y Reference line field.	Mango shall not allow string as input in Y Reference line field.	Pass	04/20/2024
1.4.4.3	1.9	Reference line in Report charts	1.Repeat test instructions stated in Test ID – 1.1 2.Provide all relevant values in respective fields under 'Report	1. Charts shall have reference line in it if a value is provided under 'Y Reference line' tab.	Pass	04/20/2024

Templates'	2. In the	
window.	absence of	
3.Click on	this value,	
'Run Now'	there shall be	
button	no reference	
present on	line seen in	
top right side	the plot.	
under		
'Report		
Templates'		
window. This		
queues the		
chart in		
'Report		
Queue'.		
4. Click on		
'view charts'		
button to		
generate		
charts.		

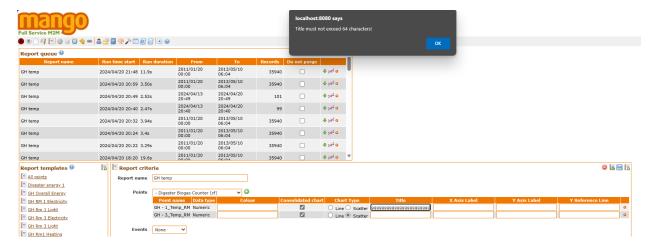
1.3. Results

1.3.1. Report Criteria Box in Report Chart Page

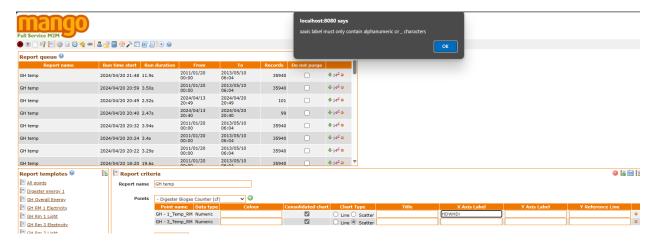


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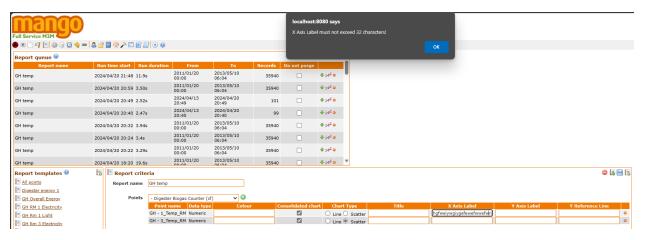
1.3.2. Title Input length check



1.3.3. Title, X Axis Label, Y Axis Label Input field check



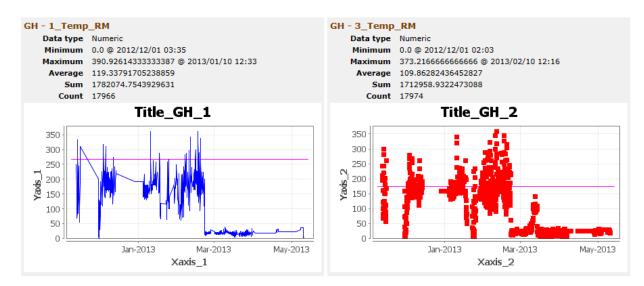
1.3.4. X Axis Label, Y Axis Label Input length check



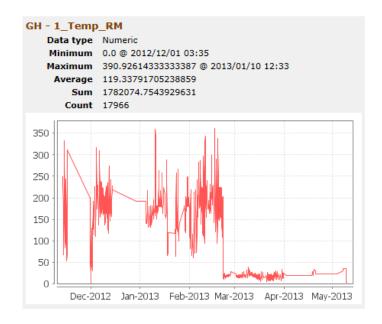
1.3.5. Y Reference Line Input field check



1.3.6. Chart generated with the newly added properties.



1.3.7. Chart generated with default conditions (to check previous functionality)



2. Landing Page functionality

2.1. Feature Description

This feature aims to create a customized landing page with a watchlist on the right half of webpage and a description of mango and the sensors used in the database on the left. The current version has the default landing page set to watchlist page and the user has an option to set or reset any page as the landing page with 'Make this my default page' button on the top-right of the navigation bar. A new 'Landing Page' button to reach the customized landing page is to be added to the navigation bar.

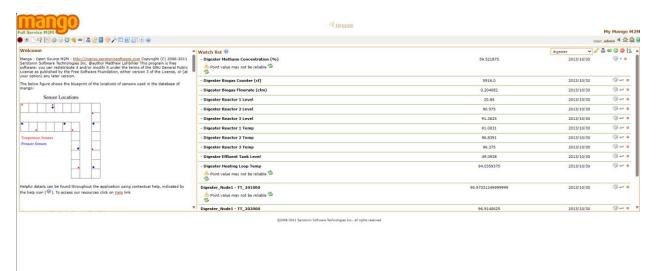
2.2.Test Case Review

2. Landing Page Functionality									
nent		Test Cases		Testi	ng Results				
ng									
Test	Requirements	Test	Pass Cases	Test	Date				
ID		Instructions		Result					
2.1	Default	1. Log into the	The left half	Pass	04/15/2024				
	landing page	Mango server	shall have						
	upon user	using valid	Mango						
	login.	credentials.	software and						
		2. Check the	sensor details						
		landing page	and the right						
		upon	shall have						
		successful user	watchlist.						
		login.							
2.2	Left half of	1. Log into the	1. The left	Pass	04/15/2024				
	landing page	Mango server	half of						
	upon	using valid	webpage						
	successful	credentials.	shall include						
	login.	2. Check the	a hyperlink						
		landing page	message 'To						
		upon	access our						
			resources,						
		login.	click on the						
			"Help" link."						
			2. The left						
			half shall						
			also have						
	Test ID 2.1	Test Requirements ID 2.1 Default landing page upon user login. 2.2 Left half of landing page upon successful	Test Cases Test Requirements Instructions 2.1 Default landing page upon user login. 2.2 Check the landing page upon successful user login. 2.2 Left half of landing page upon using valid credentials. 2. Check the landing page upon successful user login. 2.2 Left half of landing page upon using valid credentials. 2. Check the left half of landing page	Test Cases Test ID Test Instructions 2.1 Default landing page upon user login. 2.2 Check the landing page upon successful user login. 2.2 Left half of landing page upon successful login. 2.3 Left half of landing page upon successful login. 2.4 Left half of landing page upon successful ser upon successful ser upon successful login. 2.5 Check the landing page upon successful erdentials. login. 2.6 Check the landing page upon successful credentials. shall include a hyperlink with a landing page upon successful user login. 2.7 Check the left half of landing page upon successful user login. 2.8 Check the left half of landing page upon successful user login. 2.9 Check the left half of landing page upon successful user login.	Test ID Test Requirements ID Default landing page upon user login. 2.1 Default landing page upon user landing page upon successful user upon successful user upon successful login. 2.2 Left half of landing page upon successful login. 2.4 Left half of landing page upon successful login. 2.5 Check the landing page upon successful login. 2.6 Left half of landing page upon successful user using valid credentials. 2. Check the left half of landing page upon successful user login. 2.6 Left half of landing page upon successful user login. 2.7 Left half of landing page upon successful user login. 2.8 Left half of landing page upon successful user login. 2.9 Left half of landing page upon successful user login.				

2.4.1.2	2.3	Right half of landing page upon successful login (user already selected sensor points of interest)	1. Log into the Mango server using valid credentials. 2. Check the right half of landing page upon successful user login.	descriptive diagram of the sensors included in the database. Right half includes watchlist interface to allow the user to monitor sensor points.	Pass	04/15/2024
2.4.1.2	2.4	Right half of landing page upon successful login (user did not select sensor points of interest)	1. Log into the Mango server using valid credentials. 2. Check the right half of landing page upon successful user login.	There should be a message on the right window stating, 'Click on points to add them to the watchlist'.	Pass	04/15/2024
2.4	2.5	Landing page icon on Navigation bar	Log into the Mango server using valid credentials. Check the Navigation bar	The navigation bar shall have a hyperlink icon at the left most corner with name as landing page.	Pass	04/15/2024

2.3. Results

2.3.1. Mango New Landing Page

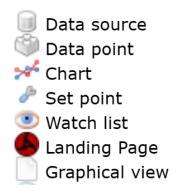


2.3.2. Landing Page icon in Navigation Bar



2.3.3. Additional information in Mango help page

Application icons



3. Horizontal CSV functionality

3.1. Feature Description

This feature aims to alter the way data is spread across a CSV file that is produced when exporting a report generated such that each sensor has its own set of output parameters. The current version shows the data of all the sensor under the same five columns, while the updated feature will have these 5 columns separately for each sensor and can be read easily in a horizontal format. while the data for each individual sensor will be read in vertical.

3.2.Test Case Review

		3.	Horizontal CSV fund	ctionality		
Requirer	nent		Test Cases		Testin	g Results
Mappi	ng					
Requirem	Test	Requirements	Test Instructions	Pass Cases	Test	Date
ent ID	ID				Result	
3.4.1	3.1	CSV file	1. Follow first	There shall be	Pass	04/15/2024
		format check	three steps of Test	an addition of		
			ID – 1.1.	a new set of		
			2. Select point,	columns		
			point names and	("Point Name",		
			the data range of	"Time",		
			time of your	"Value",		
			choice under the report tab.	"Rendered",		
			3. Click on 'Run	"Annotation")		
			Now' button	adjacent to the		
			present on top	previous		
			right side under	columns in the		
			'Report	report with		
			Templates' window. This	every new		
			queues the chart	point name		
			in 'Report	identified.		
			Queue'.	Check if all the		
			2. Now click on	selected sensor		
			'Export Data'	points are		
			button to	present in the		
			download csv file.	generated CSV.		

3.3.Results

3.3.1. Generated CSV file from mango.

Point name	Time	Value	Rendered	Annotation	Point name	Time	Value	Rendered	Annotation
GH - 1_Temp_RM	11/13/2012 11:25	249	249		GH - 3_Temp_RM	11/13/2012 11:23	351	351	
GH - 1_Temp_RM	11/13/2012 11:25	249	249		GH - 3_Temp_RM	11/13/2012 11:25	351	351	
GH - 1_Temp_RM	11/13/2012 11:35	254.1293	254.1293		GH - 3_Temp_RM	11/13/2012 11:35	257.1063	257.1063	
GH - 1_Temp_RM	11/13/2012 11:45	252.9124	252.9124		GH - 3_Temp_RM	11/13/2012 11:45	227.0708	227.0708	
GH - 1_Temp_RM	11/13/2012 11:55	250.1249	250.1249		GH - 3_Temp_RM	11/13/2012 11:55	225.0708	225.0708	
GH - 1_Temp_RM	11/13/2012 12:05	248.6792	248.6792		GH - 3_Temp_RM	11/13/2012 12:05	224	224	
GH - 1_Temp_RM	11/13/2012 12:15	251.8709	251.8709		GH - 3_Temp_RM	11/13/2012 12:15	226.0583	226.0583	
GH - 1_Temp_RM	11/13/2012 12:25	252.6708	252.6708		GH - 3_Temp_RM	11/13/2012 12:25	228.1167	228.1167	
GH - 1_Temp_RM	11/13/2012 12:35	250.2374	250.2374		GH - 3_Temp_RM	11/13/2012 12:35	227.0208	227.0208	
GH - 1_Temp_RM	11/13/2012 12:45	244.3832	244.3832		GH - 3_Temp_RM	11/13/2012 12:45	222.3958	222.3958	
GH - 1_Temp_RM	11/13/2012 12:55	242.0041	242.0041		GH - 3_Temp_RM	11/13/2012 12:55	218.7062	218.7062	
GH - 1_Temp_RM	11/13/2012 13:05	242.4459	242.4459		GH - 3_Temp_RM	11/13/2012 13:05	215.7708	215.7708	
GH - 1_Temp_RM	11/13/2012 13:15	243.7292	243.7292		GH - 3_Temp_RM	11/13/2012 13:15	214.6854	214.6854	
GH - 1_Temp_RM	11/13/2012 13:25	245.0751	245.0751		GH - 3_Temp_RM	11/13/2012 13:25	214.3167	214.3167	
GH - 1_Temp_RM	11/13/2012 13:35	246.1125	246.1125		GH - 3_Temp_RM	11/13/2012 13:35	214.0167	214.0167	
GH - 1_Temp_RM	11/13/2012 13:45	247.2292	247.2292		GH - 3_Temp_RM	11/13/2012 13:45	214.0167	214.0167	
GH - 1_Temp_RM	11/13/2012 13:55	247.6208	247.6208		GH - 3_Temp_RM	11/13/2012 13:55	213.85	213.85	
GH - 1_Temp_RM	11/13/2012 14:05	247.3	247.3		GH - 3_Temp_RM	11/13/2012 14:05	212.8542	212.8542	
GH - 1_Temp_RM	11/13/2012 14:15	247.5333	247.5333		GH - 3_Temp_RM	11/13/2012 14:15	212.0833	212.0833	
GH - 1_Temp_RM	11/13/2012 14:25	247.15	247.15		GH - 3_Temp_RM	11/13/2012 14:25	211.8521	211.8521	