Software	Feature Name	Difficulty
Mango	More Report Charts	Hard (Est. 8 files; 225 LOC)

Learning Goals:

- Perform concept location through an advanced change request
- Perform impact analysis and make technical decisions based on the analysis results
- Practice reverse engineering
- Practice writing test cases with full coverage
- Perform database optimization
- Document software design and analysis

Current Behavior

When generating a report, the user can choose to generate a chart for each sensor. They can then view the chart by clicking the "View Charts" button once the report is generated. The generated chart(s) will be similar to the one shown below:
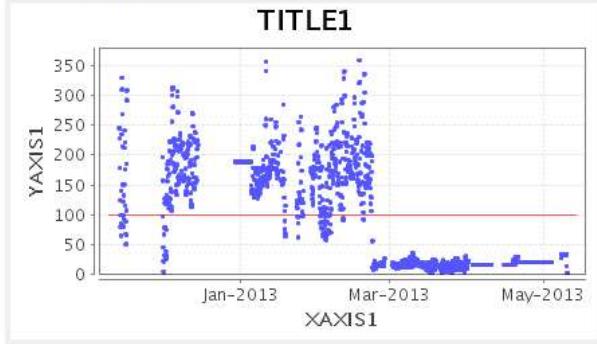

Expected Behavior

This feature should be improved by adding reference lines and the ability to add descriptive labels for X and Y axes. A scatter plot should also be generated.

Point name	Data type	Colour	Consolidated chart	Chart Type	Title	X axis label	Y axis label	Y Reference Line
GH - 1_Temp_RM	Numeric		☐	Line ◯ Scatter ◉	TITLE1	XAXIS1	YAXIS1	100
GH - 3_Temp_RM	Numeric		☐	Line ◉ Scatter ◯	TITLE2	XAXIS2	YAXIS2	200
GH - 2_RM_Temp	Numeric		☐	Line ◉ Scatter ◯	TITLE3	XAXIS3	YAXIS3	1

GH - 1_Temp_RM

Data type	Numeric
Minimum	0.0 @ 2012/12/01 03:35
Maximum	390.92614333333387 @ 2013/01/10 12:33
Average	119.33791705238859
Sum	1782074.7543929631
Count	17966

GH - 3_Temp_RM

Data type	Numeric
Minimum	0.0 @ 2012/12/01 02:03
Maximum	373.2166666666666 @ 2013/02/10 12:16
Average	109.86282436452827
Sum	1712958.9322473088
Count	17974