

Shared Hosting Customer Experience Monitoring System

Test Case Document

Revision 1.0

April 10, 2011

Document Number: TC.GD.041011.1.0

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FUNCTIONAL VERIFICATION TESTING

TEST CASE 1: Test to verify that Go Daddy Dashboard opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement:

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Verify that the page has an Accordion type panel on the left	The accordion panel should have two sections: 1. Live Charts 2. Templates
3	Verify the Central panel	The central panel should have a message that says "Please select a chart"
4	Verify that the page has another accordion panel on the right	The panel should have 4 sections: 1. Canvas Background 2. Canvas 3. Chart 4. Grid
5	Verify the Live Charts section on the left panel	The Live Charts section should have 3 links in it: 1. Executive 2. Manager 3. Technical
6	Verify the Templates section on the left panel	The Templates panel should have 10 links in it : 1. Line 2. Area 3. Bar 4. Pie 5. Donut 6. Bar 3D 7. Pie 3D 8. Donut 3D 9. Scatter 10. Heat Map

TEST CASE 2: Test to verify that Executive Live Chart opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: UC-GD-112210-AU-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Live Charts section on the left panel	The panel should open to show 3 links inside: Executive, Manager and Technical
3	Click on the Executive link	The center panel should change and display the following :
		1. A speed gauge for Server Response time in milliseconds. The speed gauge should have 3 threshold values indicated by 3 different colors: <ul style="list-style-type: none">• 0 – 3000ms : Green• 3000 – 5000 ms: Yellow• 5000 – 10000 ms: Red
		2. A speed gauge for Cluster response time with the same threshold values as above.
		3. A Linear gauge for Server Availability with 3 threshold values indicated by 3 different colors: <ul style="list-style-type: none">• 0- 90% : Red• 90-95% : Yellow• 95-100% : Green
		4. A Linear gauge for Cluster availability with the same thresholds as above.
4	Move the Time slider from the present date to 7 days back.	The slider position should start at the extreme right and should show date for the present day [should show “Today”] The slider should move 6 positions to the left of the “Today ” position With each shift to the left, the chart should re-render and display data for the previous day.

TEST CASE 3: Test to verify that Executive Live Chart displays the correct data

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: UC-GD-112210-AU-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Run a SQL query to get Response time data for the Server for a day.	A list of response times for all the tests for that day should be returned.
2	Calculate the average Response time for that day.	
3	Run an MDX query to get the average Response time for the Server for that day.	The result of the MDX query should match the average response time calculated from the SQL query results.
4	Run a SQL query to get Response time data for the Cluster for a day.	A list of response times for all the tests for that day should be returned.
5	Calculate the average Response time for that day.	
6	Run an MDX query to get the average Response time for the Cluster for that day.	The result of the MDX query should match the average response time calculated from the SQL query results.

TEST CASE 4: Test to verify that Manager Live Chart opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: UC-GD-112210-AU-002

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Live Charts section on the left panel	The panel should open to show 3 links inside: Executive, Manager and Technical
3	Click on the Manager link	The center panel should change and display the following :
		A Bubble chart should be displayed that has the following properties : 1. Availability on the Y axis 2. Hosts on the X axis 3. The Size of the bubbles should indicate the Response times
4	Move the Time slider from the present date to 7 days back.	The slider position should start at the extreme right and should show date for the present day [should show "Today"] The slider should move 6 positions to the left of the "Today " position With each shift to the left, the chart should re-render and display data for the previous day.

TEST CASE 5: Test to verify that Manager Live chart displays accurate data

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: UC-GD-112210-AU-002

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Run a SQL query to get Response time data for the Hosts for a day.	A list of response times for all the tests for that day should be returned.
2	Calculate the average Response time for that day.	
3	Run an MDX query to get the average Response time for the Hosts for that day.	The result of the MDX query should match the average response time calculated from the SQL query results.

TEST CASE 6: Test to verify that Technical Live chart opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: UC-GD-112210-AU-003

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Live Charts section on the left panel	The panel should open to show 3 links inside: Executive, Manager and Technical
3	Click on the Technical link	The center panel should change and display the following :
		A Box and Whisker chart should be displayed that shows the following Response time data : 1. Minimum Response time 2. Maximum Response time 3. 5 th Percentile value 4. 95 th Percentile value 5. Mean and Median for the Response times
4	Move the Time slider from the present date to 7 days back.	The slider position should start at the extreme right and should show date for the present day [should show "Today"] The slider should move 6 positions to the left of the "Today " position With each shift to the left, the chart should re-render and display data for the previous day.

TEST CASE 7: Test to verify that the Line chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Line' link	The center panel should change and display a Line chart with data picked up from the Json file.

TEST CASE 8: Test to verify that the Area chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Area' link	The center panel should change and display an Area chart with data picked up from the Json file.

TEST CASE 9: Test to verify that the Bar chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Bar' link	The center panel should change and display a Bar chart with data picked up from the Json file.

TEST CASE 10: Test to verify that the Pie chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Pie' link	The center panel should change and display a Pie chart with data picked up from the Json file.

TEST CASE 11: Test to verify that the Bar 3D chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Bar 3D' link	The center panel should change and display a 3D Bar chart with data picked up from the Json file.

TEST CASE 12: Test to verify that the Pie 3D chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Pie 3D' link	The center panel should change and display a 3D Pie chart with data picked up from the Json file.

TEST CASE 13: Test to verify that the Donut chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Donut' link	The center panel should change and display a Donut chart with data picked up from the Json file.

TEST CASE 14: Test to verify that the Donut 3D chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Donut 3D' link	The center panel should change and display a Donut 3D chart with data picked up from the Json file.

TEST CASE 15: Test to verify that the Scatter chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Scatter' link	The center panel should change and display a Scatter chart with data picked up from the Json file.



TEST CASE 16: Test to verify that the HeatMap chart in Templates opens successfully

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Templates section on the left panel	The panel should open to show 10 links inside: Line, Bar, Pie, Area, Bar 3D, Pie 3D, Donut, Donut 3D, Scatter and Heat Map
3	Click on the 'Heat Map' link	The center panel should change and display a Heat Map chart with data picked up from the Json file.



TEST CASE 17: Test to verify that the Canvas Background of the charts can be customized

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Canvas Background section on the right panel	The panel should open to show controls that allow changing : Background Color, Background Alpha (opacity), Show/Hide Border, Border Color, Border Thickness.
3	Click in the Background Color textbox	A Color picker panel should open up beside the textbox : 
4	Select the ColorPicker from the panel and move it around on the color palette to select a color.	The selected color should show up in the panel on the right hand side of it.
5	Click on the 'Color Select' icon : 	The Canvas Background (on the central panel behind the chart) should change and display the selected color.
6	Click outside of the Color Picker panel	The Color picker should disappear.
7	Change the value of the 'Background Alpha'	Increasing the value should make the Canvas background more opaque. Decreasing the value should make the Canvas background more transparent.
8	Check / uncheck the 'Show Border' checkbox	Selecting the checkbox should show the Border around the canvas and unselecting it should hide the border
9	Click in the Border Color and use it the same way as the Canvas background color picker to select the Border color	Border color should be the same as the one selected from the color picker.
10	Change the value of the 'Border Thickness'	Increasing the value should make the Border thicker Decreasing the value should make the Border thinner

TEST CASE 18: Test to verify that the Canvas of the charts can be customized

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Canvas section on the right panel	The panel should open to show controls that allow changing : Background Color, Background Alpha (opacity), Border Color, Border Thickness.
3	Click in the Background Color textbox	A Color picker panel should open up beside the textbox : 
4	Select the ColorPicker from the panel and move it around on the color palette to select a color.	The selected color should show up in the panel on the right hand side of it.
5	Click on the 'Color Select' icon : 	The Canvas of the chart should change and display the selected color.
6	Click outside of the Color Picker panel	The Color picker should disappear.
7	Change the value of the 'Background Alpha'	Increasing the value should make the Canvas background more opaque. Decreasing the value should make the Canvas background more transparent.
8	Click in the Border Color and use it the same way as the Canvas background color picker to select the Border color	Border color should be the same as the one selected from the color picker.
9	Change the value of the 'Border Thickness'	Increasing the value should make the Border thicker Decreasing the value should make the Border thinner

TEST CASE 19: Test to verify that the Chart color can be customized

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Chart section on the right panel	The panel should open to show controls that allow changing the (Color) Palette
3	Change the value in the Palette box from minimum to maximum	Verify that the minimum value is 1 and the maximum is 5
4	Set the value to a number between 1 and 5	Verify that the Color of the Chart changes to a different one for each of the values selected.

TEST CASE 20: Test to verify that the Grid can be customized

- Method of Testing : Manual
- Browser : FireFox 3.6
- Pre Condition : A chart from the Templates section should be open
- Feature / Requirement: M-R-GD-0302-001

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Go Daddy Dashboard should open
2	Open the Grid section on the right panel	The panel should open to show controls that allow selecting or de-selecting the Grid
3	Select the Grid checkbox	The data in the charts should be displayed below the chart in a grid format.
4	De-select the Grid checkbox	The grid data should disappear.
5	Select the check box again.	A toaster should appear informing the user that the Grid will now be displayed for the next chart.
6	Reload the chart or select a new chart	The Grid will now appear below the chart

PERFORMANCE TESTING

TEST CASE 21: Test to verify that all the charts in the application render in less than 10s

- Method of Testing : Manual
- Browser : FireFox 3.6
- Feature / Requirement : VD-GD-113010-C-007

S.N	EXECUTION STEPS	EXPECTED RESULTS
1	Open the GoDaddy Dashboard by typing in the url http://129.219.40.38:8080/SpringGoDaddy/ into the browser	Verify that page loads in less than 10s
2	Click on the Executive link under Live Charts	Verify that chart loads in less than 10s
3	Click on the Manager link under Live charts	Verify that chart loads in less than 10s
4	Click on the Technical link under Live charts	Verify that chart loads in less than 10s
5	Click on the Line link under Templates	Verify that chart loads in less than 10s
6	Click on the Area link under Templates	Verify that chart loads in less than 10s
7	Click on the Bar link under Templates	Verify that chart loads in less than 10s
8	Click on the Pie link under Templates	Verify that chart loads in less than 10s
9	Click on the Bar 3D link under Templates	Verify that chart loads in less than 10s
10	Click on the Pie 3D link under Templates	Verify that chart loads in less than 10s
11	Click on the Donut link under Templates	Verify that chart loads in less than 10s
12	Click on the Donut 3D link under Templates	Verify that chart loads in less than 10s
13	Click on the Scatter link under Templates	Verify that chart loads in less than 10s
14	Click on the HeatMap link under Templates	Verify that chart loads in less than 10s

CROSS BROWSER TESTING

TEST CASE 22: Test to verify that the application works uniformly across multiple browsers.

- Method of Testing : Manual
- Browsers : Chrome / Safari / Internet Explorer
- Feature / Requirement: VD-GD-113010-C-012.

S.N	EXECUTION STEPS
1	Execute Test cases 1-21 on Chrome
2	Execute Test cases 1-21 on FireFox
3	Execute Test cases 1-21 on Safari