**Shared Hosting Customer Experience Monitoring System**

Test Case Document

Revision 1.0

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Team Name: GoDaddy Team

Project Sponsor: GoDaddy Inc.

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| **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 |

**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:

**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

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| **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:  * 0 – 3000ms : Green * 3000 – 5000 ms: Yellow * 5000 – 10000 ms: Red |
|  |  | 1. A speed gauge for Cluster response time with the same threshold values as above. |
|  |  | 1. A Linear gauge for Server Availability with 3 threshold values indicated by 3 different colors:  * 0- 90% : Red * 90-95% : Yellow * 95-100% : Green |
|  |  | 1. 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

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| **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

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| **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

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| **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

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| **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. 5th Percentile value 4. 95th 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

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| **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. |

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| **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 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

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| **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 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

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

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| **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. |

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

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| **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 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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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.

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| **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 |