Project Name	**Smart Dashboard Application**					
Document Name	**Exploratory Testing**					
Created by	**SDA Team**					
Date of creation	**15 - Nov - 2020**					
Date of review	**14 - Dec -2020**					
Feature	**Acceptance Criteria ID**	**Description**	**Input**	**Process**	**Output**	**Pass/Fail (P/F)**
Toolbar	1	View Dataset of Climate	Humidity, Temperature, Rainfall	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Click on Temperature 4. Click on Rainfall	Temperature: Filter by City, Filter By Year, Filter By Period Of City Rainfall: Filter by City, Filter By Year, Filter By Period Of City Humidity: Filter by City, Filter By Year, Filter By Period Of City	P
	2	View Dataset of Population	Population	Click on Toolbar 1. Click on Population > Population	Population: Filter by City, Filter By Year, Filter By Period Of City	P
	3	View Dataset of Industry	Industry Production	Click on Toolbar 1. Click on Industry > Industry Production	Industry Production: Filter by City, Filter By Year, Filter By Period Of City	P
	4	View Dataset of Forest	Forest Cover Area Afforestation	Click on Toolbar 1. Click on Forest 2. Click on Forest Cover Area 3. Click on Afforestation	Afforestation: Filter by City, Filter By Year, Filter By Period Of City Forest Cover Area: None	F
	5	View Dataset of Forest	Forest Cover Area Afforestation	Click on Toolbar 1. Click on Forest 2. Click on Forest Cover Area 3. Click on Afforestation	Afforestation: Filter by City, Filter By Year, Filter By Period Of City Forest Cover Area: None	F
	6	View List Item of Operators	Statistic Merge: enabled Simple Merge: disabled	Click on Toolbar 1. Click on Operators	Statistic Merge: enabled Simple Merge: disabled	P
	7	View List Item of Visualization	Table, Charts, Maps	Click on Toolbar 2. Click on Visualization	Table: enabled Charts has children Maps	P
	8	View type of Charts	Column Line Pie Chart with two-axis Chart with three-axis	Click on Toolbar 1. Click on Visualization 2. Click on Charts	Column: enabled Line: enabled Pie: disabled Chart with two-axis: enabled Chart with three-axis: enabled	P
	1	Drag item from Toolbar to dahsboard	Item in Toolbar, Dashboard	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Year" and drop to dashboard	Appear an widget: "Average Humidity" filter by Year	P
	2	Draw connector between 2 widget		Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Year" and drop to dashboard 4. Click on Visualization 5. Drag item "Maps" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Maps	Appear an line when dragging when dragging success: Appear a line from Humidity To Maps	P

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Dashboard	3	Visualization Humidity Filter By Year In Maps	Humdity Filter By Year, Year: 2012 Sơn La: 80.2 Gia Lai: 80.8 Đà Nẵng: 79.9	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Year" and drop to dashboard 4. Click on Visualization 5. Drag item "Maps" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Maps 7. Select Year: 2012 9. Click on Run button in Maps 10. Hover on pronvice in Maps	Maps has update data of each pronvice in Maps Sơn La: 80.2 Gia Lai: 80.8 Đà Nẵng: 79.9	P
	4	Visualization Humidity Filter By City In Column Chart	Humdity Filter By City, Year: 2012 Đà Lạt: 83.8 Đà Nẵng: 79.9 Bãi Cháy: 84.2 Cà Mau: 81.3	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by City" and drop to dashboard 4. Click on Visualization 5. Drag item "Column Chart" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Maps 8. Select City: Đà Lạt, Đà Nẵng, Bãi Cháy, Cà Mau 7. Click on Run button in Chart 8. Hover on year 2012 in Chart	Column Chart has update data of each pronvice was select Đà Lạt: 83.8 Đà Nẵng: 79.9 Bãi Cháy: 84.2 Cà Mau: 81.3	P
	5	Visualization Humidity Filter By City In Line Chart	Humdity Filter By City, Year: 2012 Đà Lạt: 83.8 Đà Nẵng: 79.9 Bãi Cháy: 84.2 Cà Mau: 81.3	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by City" and drop to dashboard 4. Click on Visualization 5. Drag item "Line Chart" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Maps 8. Select City: Đà Lạt, Đà Nẵng, Bãi Cháy, Cà Mau 7. Click on Run button in Chart 8. Hover on year 2012 in Chart	Line Chart has update data of each pronvice was select Đà Lạt: 83.8 Đà Nẵng: 79.9 Bãi Cháy: 84.2 Cà Mau: 81.3	P
	6	Visualization Humidity Filter By Period of City in Column Chart	Humidity Filter by Period of City From Year: 2012. To Year: 2016 City: Đà Nẵng Data: 2012: 79.9, 2013: 81.0, 2014: 80.6, 2015: 80.7, 2016: 80.6	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Period of City" and drop to dashboard 4. Click on Visualization 5. Drag item "Column Chart" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Column Chart 8. Select City: Đà Nẵng, From Year: 2012, To Year: 2016 7. Click on Run button in Chart	Column Chart has update data of each pronvice was select Data: 2012: 79.9, 2013: 81.0, 2014: 80.6, 2015: 80.7, 2016: 80.6	P

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	7	Visualization Humidity Filter By Period of City in Line Chart	Humidity Filter by Period of City From Year: 2012. To Year: 2016 City: Đà Nẵng Data: 2012: 79.9, 2013: 81.0, 2014: 80.6, 2015: 80.7, 2016: 80.6	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Period of City" and drop to dashboard 4. Click on Visualization 5. Drag item "Line Chart" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Line Chart 8. Select City: Đà Nẵng, From Year: 2012, To Year: 2016 7. Click on Run button in Chart	Line Chart has update data of each pronvice was select Data: 2012: 79.9, 2013: 81.0, 2014: 80.6, 2015: 80.7, 2016: 80.6	P
	8	Visualization Humidity Filter By Year & Filter By City in Column Chart	Cities: Bãi Cháy, Đà Nẵng, Đà Lạt, Cà Mau Year: 2012 Data: Bãi cháy: 84.2, Đà Nẵng: 79.9, Đà Lạt: 83.8, Cà Mau: 81.3	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Year" and drop to dashboard 4. Drag item "Filter by City" and drop to dashboard 5. Drag item "Column Chart" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Column Chart 8. Select City: Đà Nẵng, Bãi Cháy, Đà Lạt, Cà Màu 9. Select Year: 2012 7. Click on Run button in Chart	Column Chart has update data of each pronvice was select Data: Bãi cháy: 84.2, Đà Nẵng: 79.9, Đà Lạt: 83.8, Cà Mau: 81.3	P
	9	Visualization Humidity Filter By Year & Filter By City in Maps	Cities: Bãi Cháy, Đà Nẵng, Đà Lạt, Cà Mau Year: 2012 Data: Bãi cháy: 84.2, Đà Nẵng: 79.9, Đà Lạt: 83.8, Cà Mau: 81.3	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by Year" and drop to dashboard 4. Drag item "Filter by City" and drop to dashboard 5. Drag item "Column Chart" and drop to dashboard 6. Drag an port-out from Humidity in Year to port-in in Maps 8. Select City: Đà Nẵng, Bãi Cháy 9. Select Year: 2012 10. Click on Run button in Chart 11. Select City: Đà Lạt, Cà Mau 12. Select Year: 2012	Column Chart has update data of each pronvice was select Data: Bãi cháy: 84.2, Đà Nẵng: 79.9 when click Đà Nẵng, Bãi Cháy Data: Bãi cháy: 84.2, Đà Nẵng: 79.9 Đà Lạt: 83.8, Cà Mau: 81.3 when click Đà Lạt, Cà Mau	F

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	10	Merge Afforest & Rainfall and visualization in Two-Axis Chart	From Year: 2012 To Year: 2014 City: Đà Nẵng Data: 2012: Afforest: 19.1, Rainfall 1696.1 2013: Afforest: 191, Rainfall: 2167.3 2014: Afforest: 14.3 , Rainfall: 2224.1 Rainfall: type: Column Afforestation: type: Line	Click on Toolbar 1. Click on Climate 2. Click on Rainfall 3. Drag item "Filter by Period of City" and drop to dashboard 4. Click on Forest > Afforestation 5. Drag item "Filter by Period of City" and drop to dashboard 6. Drag Statistisc Merge and drop to dashboard 7. Drag an port out from Humidity & Rainfall To port-in Statistic Merge 8. 5. Drag item "Chart Two Y-Axis" and drop to dashboard 6. Drag an port-out from Statistic Merge to port-in in LineChart 8. Select City: Đà Nẵng 9. Select From Year: 2012, To Year: 2014 10. Click on Run button in Statiscmerge 11. Click on Run button in Line Chart Two Y-Axis	Line Chart two Y-Axis has update data of each pronvice was select Data: 2012: Afforest: 19.1, Rainfall 1696.1 2013: Afforest: 191, Rainfall: 2167.3 2014: Afforest: 14.3 , Rainfall: 2224.1 Rainfall: type: Column Afforestation: type: Line	**P**
Outputlog	1	Widget Information	Humidity Filter By City	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by City" and drop to dashboard	Widget Info: Name: Average Humidity Description: Get humidity data of a specific city from 2012 to 2019. Combine with Charts to view results Input: no output: json connect: Line, Column chart, Table	**P**
	2	Output Log	Humidity Filter By City	Click on Toolbar 1. Click on Climate 2. Click on Humidity 3. Drag item "Filter by City" and drop to dashboard	Output Log: Average Humidity is Running	**P**