DUY TÂN UNIVERSITY

International School

CAPSTONE PROJECT 1

CMU-SE-450 / CMU-IS-450 / CMU-CS-450

INTERFACE DESIGN DOCUMENT

Version 1.2

Date: 15 - Nov - 2020

SMART DASHBOARD APPLICATION

Submitted by

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Approved by

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PROJECT INFORMATION			
Project Acronym	SDA		
Project Title	Smart Dashboard Application		
Project Web URL	https://sda-research.ml/		
Start Date	12 - Aug - 2020		
End Date:	15 - Dec - 2020		
Lead Institution	International School, Duy Tan University		
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DOCUMENT INFORMATION			
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Author(s)	Team C1SE.06		
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Access	Project and CMU Program		

REVISION HISTORY

Version	Person(s)	Date	Description	Approval
Draft	Tin, Pham	12 - Aug - 2020	Initiate document	x
1.0	Tin, Pham	15 - Nov - 2020	Finish content of interface design	x
1.1	Tin, Pham	20 - Nov - 2020	Update UI	x
1.2	Tin	13 - Dec - 2020	Update UI when merge	x

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1. INTRODUCTION

1.1. PURPOSE OF DOCUMENT

This IDD of the SDA system has the following purpose:

- Document the design of user interface of functions of SDA
- Be the primary document driving the implementation of the user interfaces.
- Introduce interface design for the reader. Including the background, content information display, command buttons.

1.2. INTENDED AUDIENCES

This IDD is intended for the following audiences:

- Technical reviewers including:
- Scrum Master
- Product owner
- Implementers, including:
    - Developers.
    - Testers.

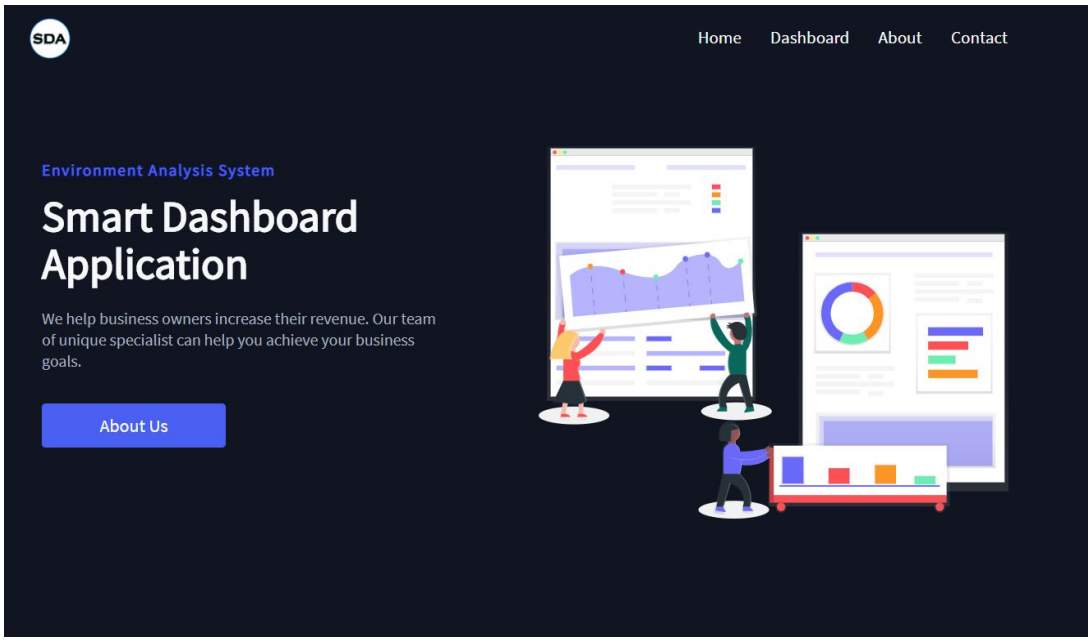
1.3. DOCUMENT OVERVIEW

This IDD is organized into the following sections:

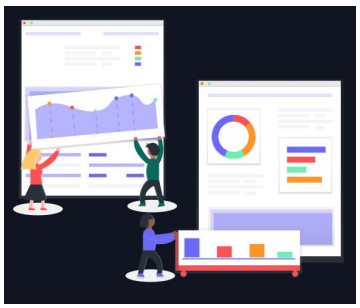
- This document helps to better understand the interface of the Smart Dashboard Application System, detailed specification components and function of the Application.
- With this document, the development team can understand the structure and composition to create a consistent and complete system.
- Overview of the stages and modules of the software and create a complete interface.

2. DETAILED INTERFACE DESIGN

2.1. Homepage

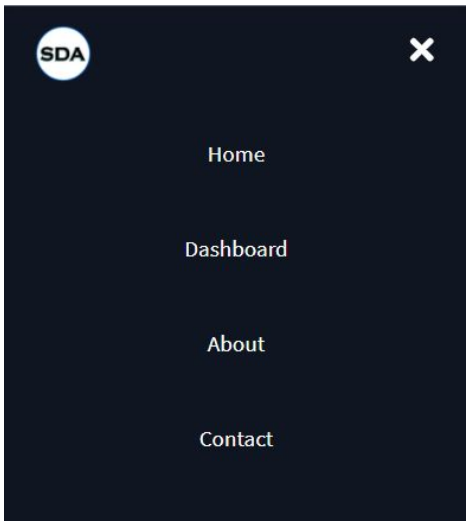


Homepage				
No.	**Field name**	**Type**	**Require**	**Target**
1	Background		Background: #101522	
2	Heading	H1 tag	Font-size: 48px Font-weight: 600 Color: #f7f8fa	Smart Dashboard Application
3	Subtitle	P tag	Font-size: 18px Color: #a9b3c1	Short introduction about SDA
4	Button	button	Background: #4b59f7 Padding: 10 20px Color: #fff Font-size: 16px;	Redirect to /about page

5	Thumbnail	image		homepage.svg

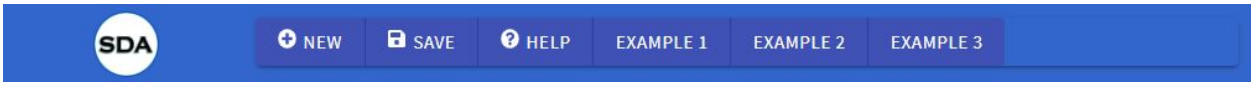
2.2. Navbar

2.2.1. IN HOME PAGE



Navbar				
No.	**Field name**	**Type**	**Require**	**Target**
1	Logo	image	SDA	logo.png
2	Menu	List	Height: 90px; Font-size: 19px; Font-family: “Source sans pro”. Responsive: max-width: 960px;	Home, Dashboard, About, Contact

2.2.2. IN DASHBOARD PAGE

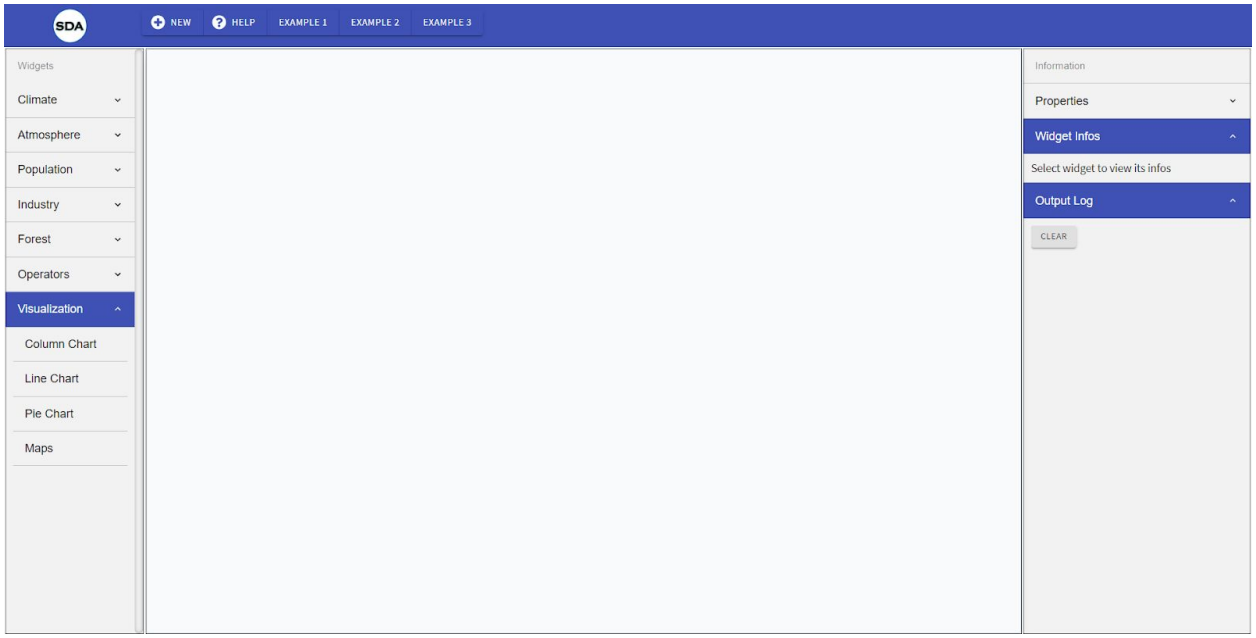


Navbar				
No.	**Field name**	**Type**	**Require**	**Target**
1	Logo	image		logo.png
2	Group Button	button	Width: 100px; Height: 35px;	New, Save, Help, Example 1, Example 2

2.3. Footer

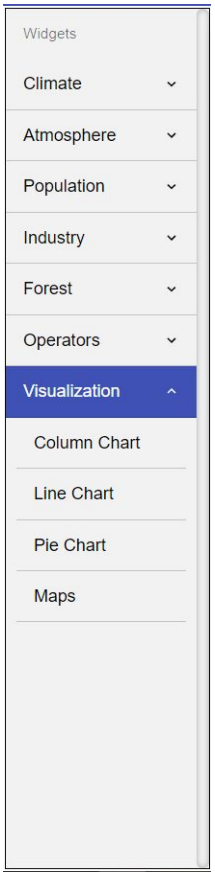
Footer				
No.	**Field name**	**Type**	**Require**	**Target**
1	Logo	image		logo.png
2	Credits	P tag	Font-size: 19px; Font-family: “source sans pro” Responsive: 960px	SDA-Team © 2020
3	Github Link	Icon Button	Icon name: “FaGithub”	https://github.com/sdateamdtu2020

2.4. Dashboard page



Dashboard page				
No.	**Field name**	**Type**	**Require**	**Target**
1	Toolbar	div	Width: 185px Height: full height	
2	Info	div	Width: 320px	
3	MashupContent	div	Width: 100vw - toolbar - info	

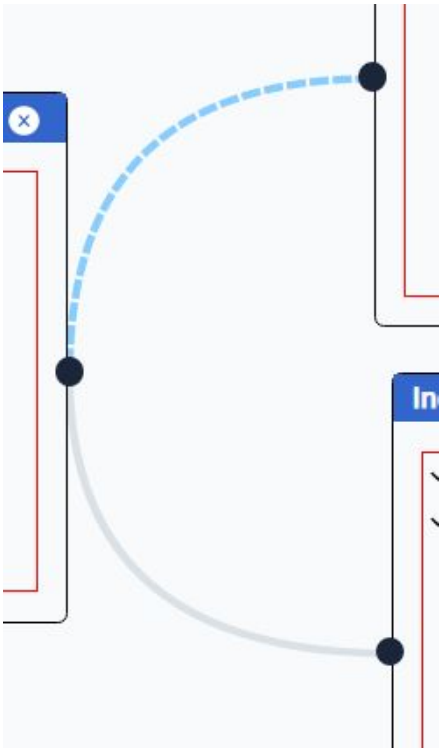
2.5. Toolbar



Toolbar				
No.	**Field name**	**Type**	**Require**	**Target**
1	Widgets	Dropdown menu	Climate: Average Temperature, Average Precipitation, Average Rainfall Atmosphere: Air Quality Station, Air Quality Filter Population: Population Industry: Industry Production Forest: Forest Cover Area, AfForestation Operators: Statistics Merge, Simple Merge Visualization: Column Chart, Line Chart, Pie Chart, Maps Each dataSet have 3 dimensions: Year, City, Period of City	

2	Default state is Open		Visualization: true
3	ListItem		Color: rgb(242, 242, 242), hover: #3f51b5

2.6. Connector

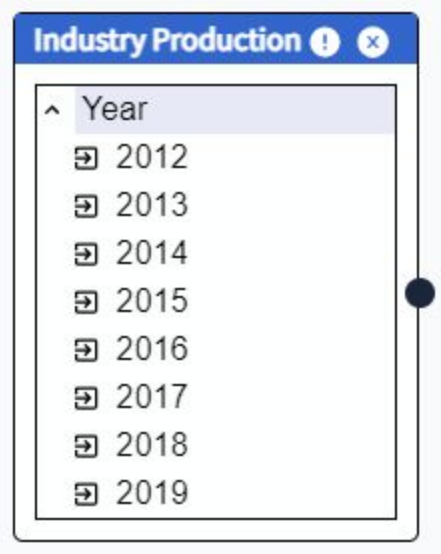


Connector				
No.	**Field name**	**Type**	**Require**	**Target**
1	Line	SVG	Stroke: #dae1e7;	
2	Port	Button	Port In & Port Out	

2.7. Industry Production

2.7.1. IN TREE VIEW

Filter By Year



Industry Production				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container

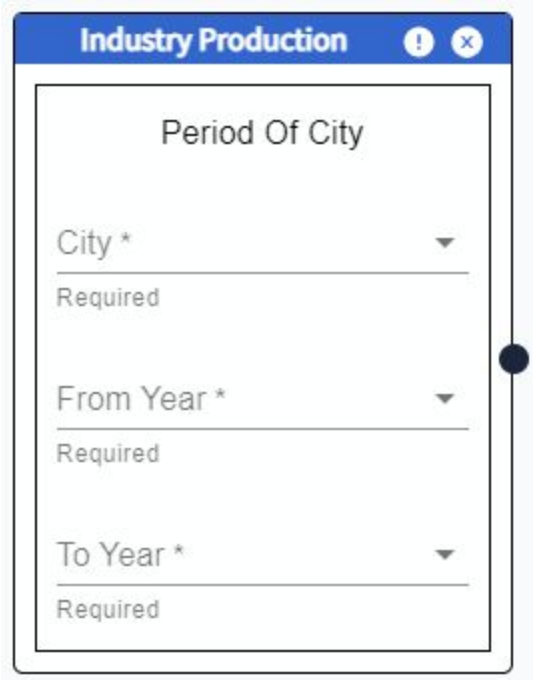
6	Data		2012 to 2019	

Filter By City

Industry Production				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget

				info in Info container
6	Data		64 province in VN	

Filter By Period of City



Industry Production				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	

5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container
6	Data		City: 64 province in VN FromYear: 2012 to 2019 ToYear: 2012 to 2019 ToYear > FromYear	

2.7.2. IN VISUALIZATION

Column

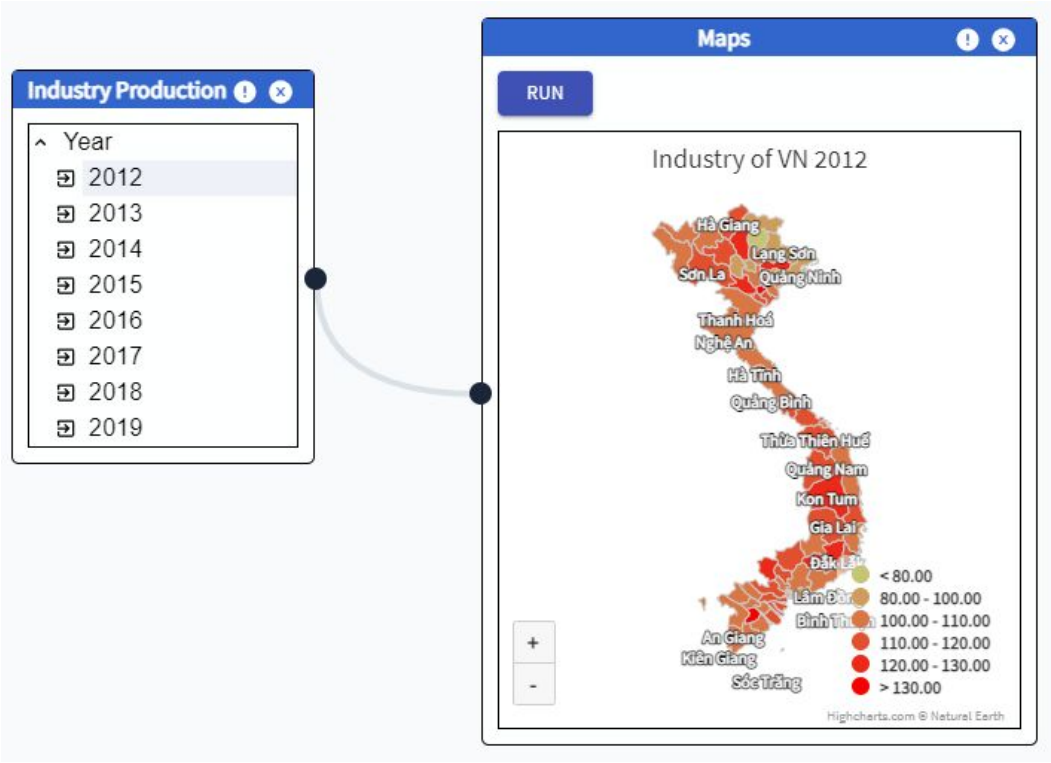
Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Column	Width: 350px;	Industry of cities from 2012 to 2019

2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Line Chart

Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Line	Width: 350px;	Industry of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Maps



Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Industry of VN 2012 to 2019
2	Port	button	Port in	
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 80 • From 80 to 100 • From 100 to 110	

			• From 110 to 120 • From 120 to 130 • From 130 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Viz data Cities in year

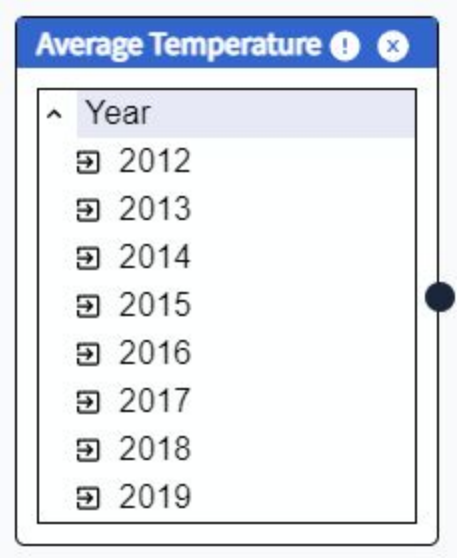
Cities In Year				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8",	Industry of cities in year

			maxColor: "#005645",	
2	Chart	Column	Width: 300px;	Industry of cities in year
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 80 • From 80 to 100 • From 100 to 110 • From 110 to 120 • From 120 to 130 • From 130 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Industry in ${year}”	Industry in year

2.8. TEMPERATURE

2.8.1. IN TREE VIEW

Filter By Year



TEMPERATURE				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Average Temperature
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container

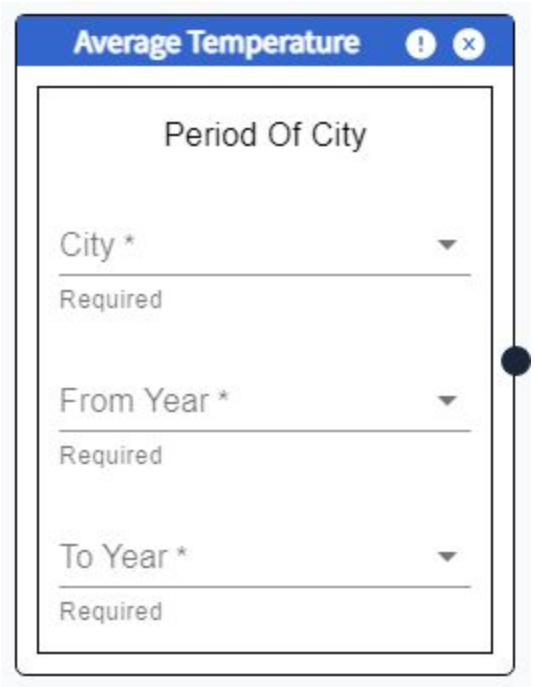
6	Data		2012 to 2019	

Filter By City

TEMPERATURE				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: "Source sans pro" Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container

6	Data		Cà Mau, Đà Lạt, Đà Nẵng, Hà Nội, Huế, Lai Châu, Nam Định, Nha Trang, Pleiku, Qui Nhơn, Sơn La, Tuyên Quang, Vinh, Vũng Tàu	

Filter By Period of City

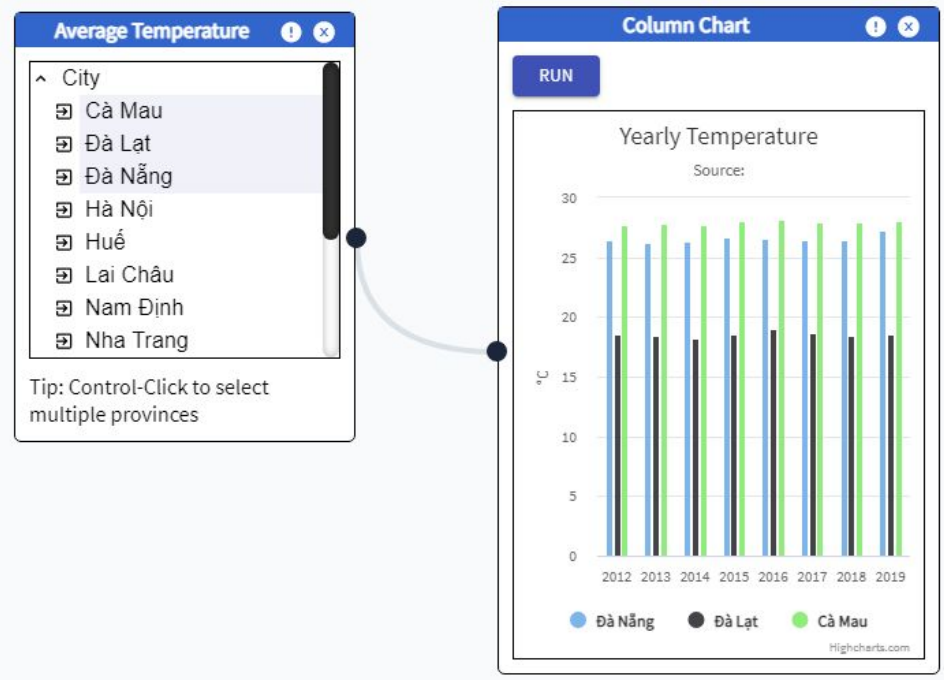


TEMPERATURE				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: "Source sans pro" Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node

4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container
6	Data		City: Cà Mau, Đà Lạt, Đà Nẵng, Hà Nội, Huế, Lai Châu, Nam Định, Nha Trang, Pleiku, Qui Nhơn, Sơn La, Tuyên Quang, Vinh, Vũng Tàu FromYear: 2012 to 2019 ToYear: 2012 to 2019 ToYear > FromYear	

2.8.2. IN VISUALIZATION

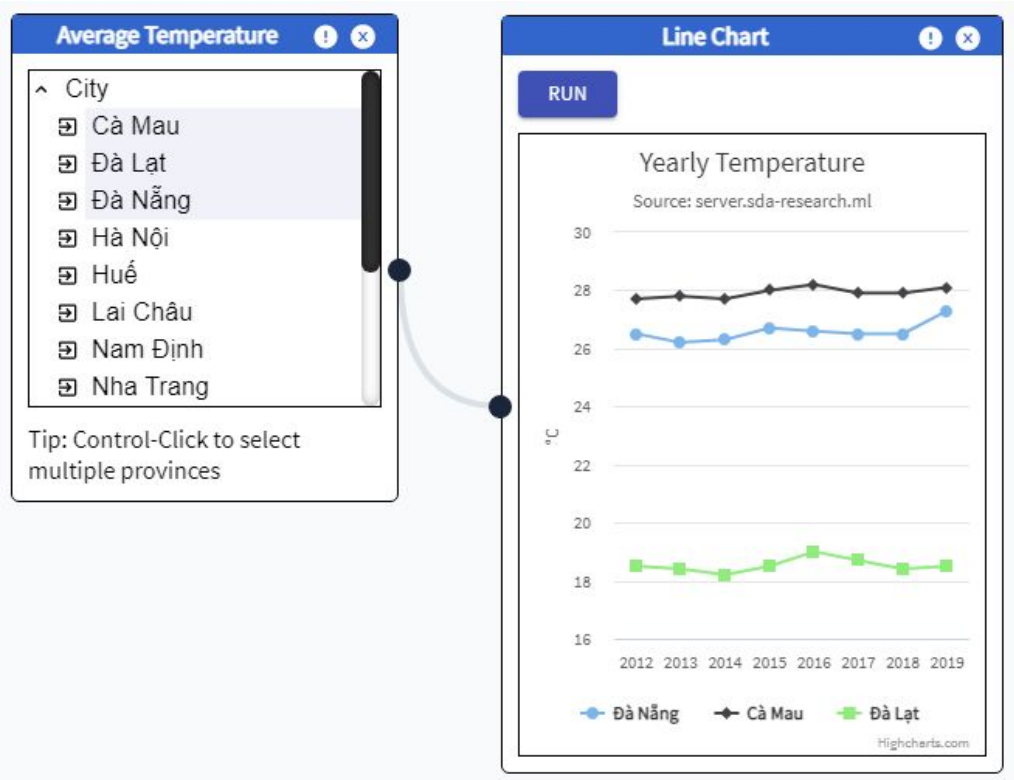
Column



Column

No.	Field name	Type	Require	Target
1	Chart	Column	Width: 350px;	Industry of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

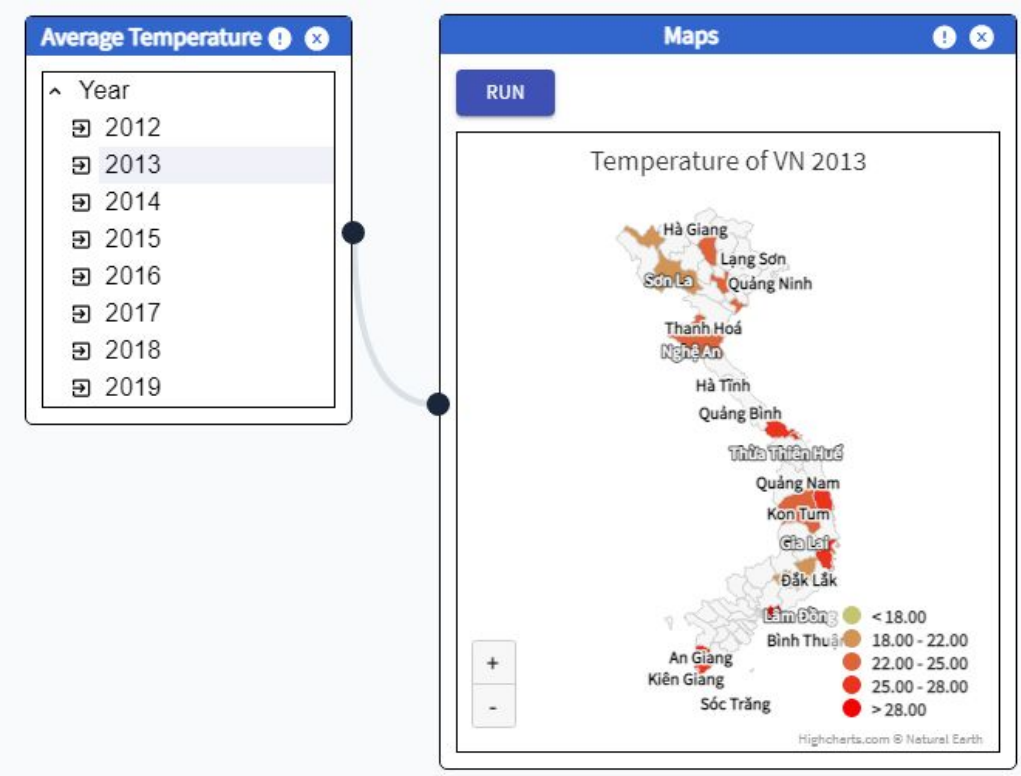
Line Chart



Line				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Line	Width: 350px;	Industry of cities from 2012 to 2019
2	Port	button	Port in	

3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Maps



Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Industry of VN 2012 to 2019
2	Port	button	Port in	
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)",	

			maxColor: "rgb(247, 2, 2)", colorRange: • To 18 • From 18 to 22 • From 22 to 25 • From 25 to 28 • From 28 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Temperature of VN ${year}”	Temperature of VN 2012

Viz data Cities in year

Cities In Year				
No.	**Field name**	**Type**	**Require**	**Target**

1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Temperature of cities in year
2	Chart	Column	Width: 300px;	Temperature of cities in year
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 80 • From 80 to 100 • From 100 to 110 • From 110 to 120 • From 120 to 130 • From 130 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Temperature in ${year}”	Temperature in year

2.9. Humidity

2.9.1. IN TREE VIEW

Filter By Year

Humidity				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Average Humidity
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget

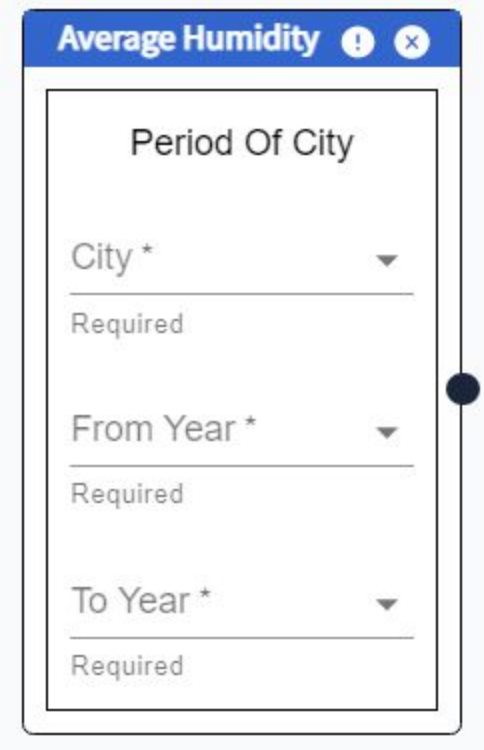
				info in Info container
6	Data		2012 to 2019	

Filter By City

Humidity				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node

4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container
6	Data		Cà Mau, Đà Lạt, Đà Nẵng, Hà Nội, Huế, Lai Châu, Nam Định, Nha Trang, Pleiku, Qui Nhơn, Sơn La, Tuyên Quang, Vinh, Vũng Tàu	

Filter By Period of City



Humidity				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess,	

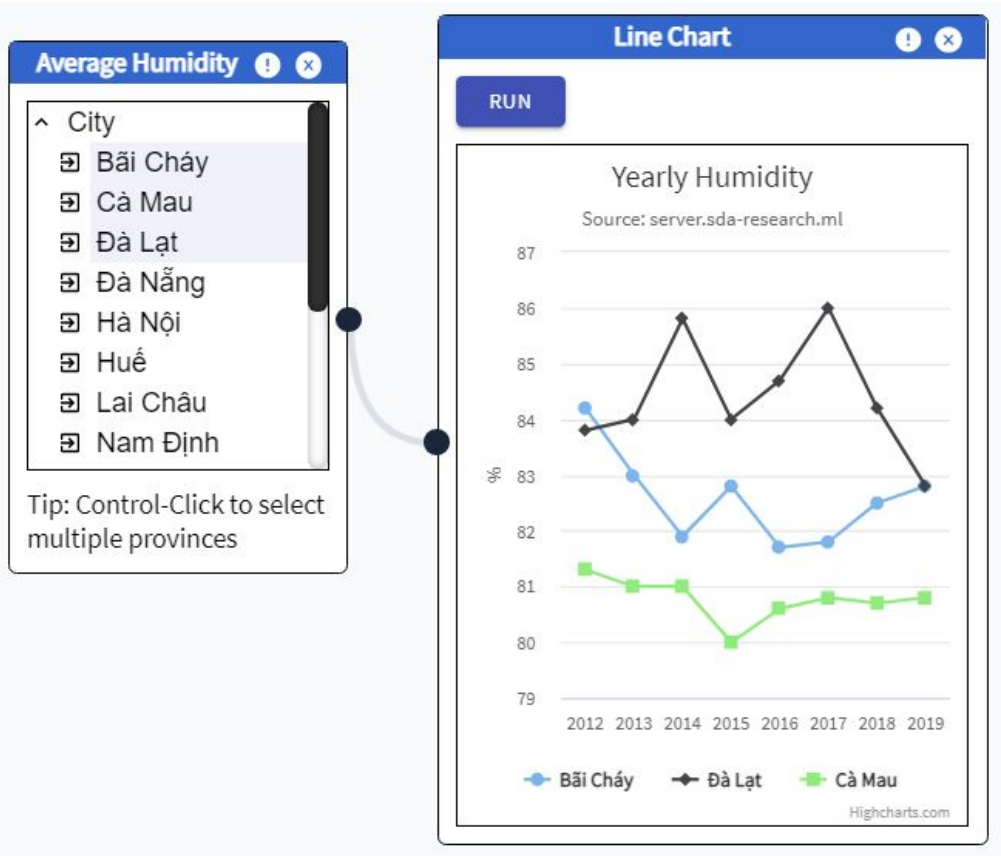
			MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container
6	Data		City: Cà Mau, Đà Lạt, Đà Nẵng, Hà Nội, Huế, Lai Châu, Nam Định, Nha Trang, Pleiku, Qui Nhơn, Sơn La, Tuyên Quang, Vinh, Vũng Tàu FromYear: 2012 to 2019 ToYear: 2012 to 2019 ToYear > FromYear	

2.9.2. IN VISUALIZATION

Column

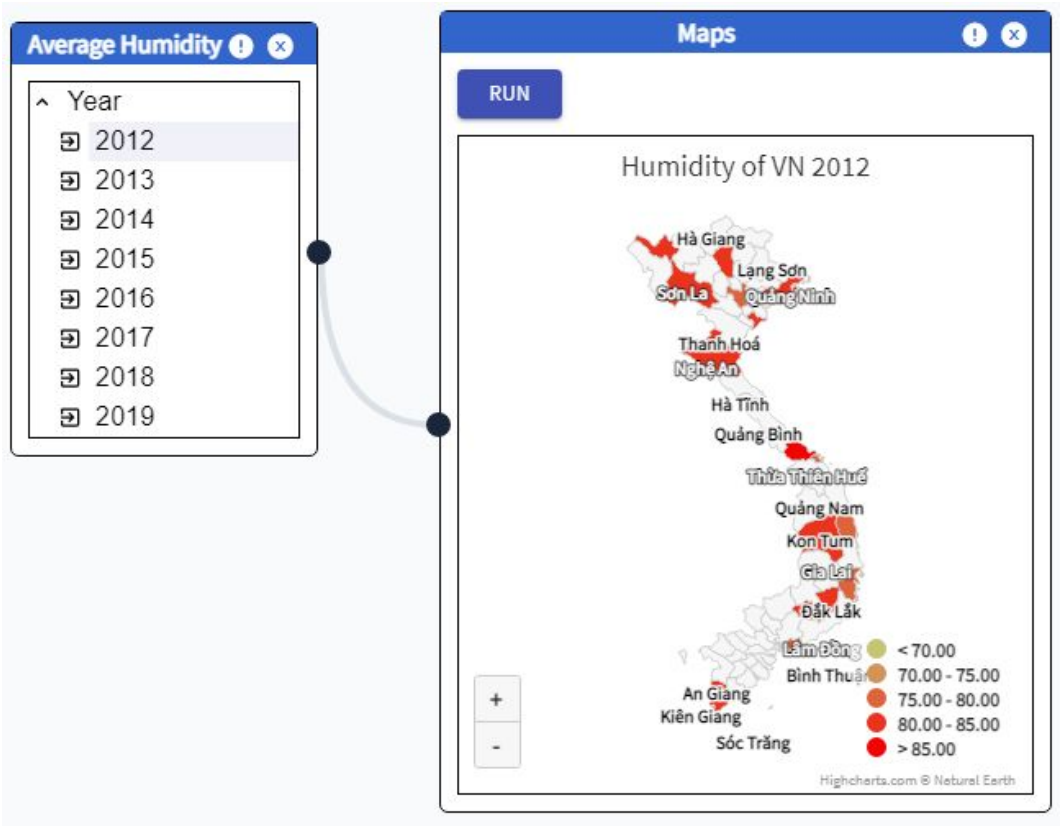
Column				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Column	Width: 350px;	Industry of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Line Chart



Line				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Line	Width: 350px;	Humidity of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

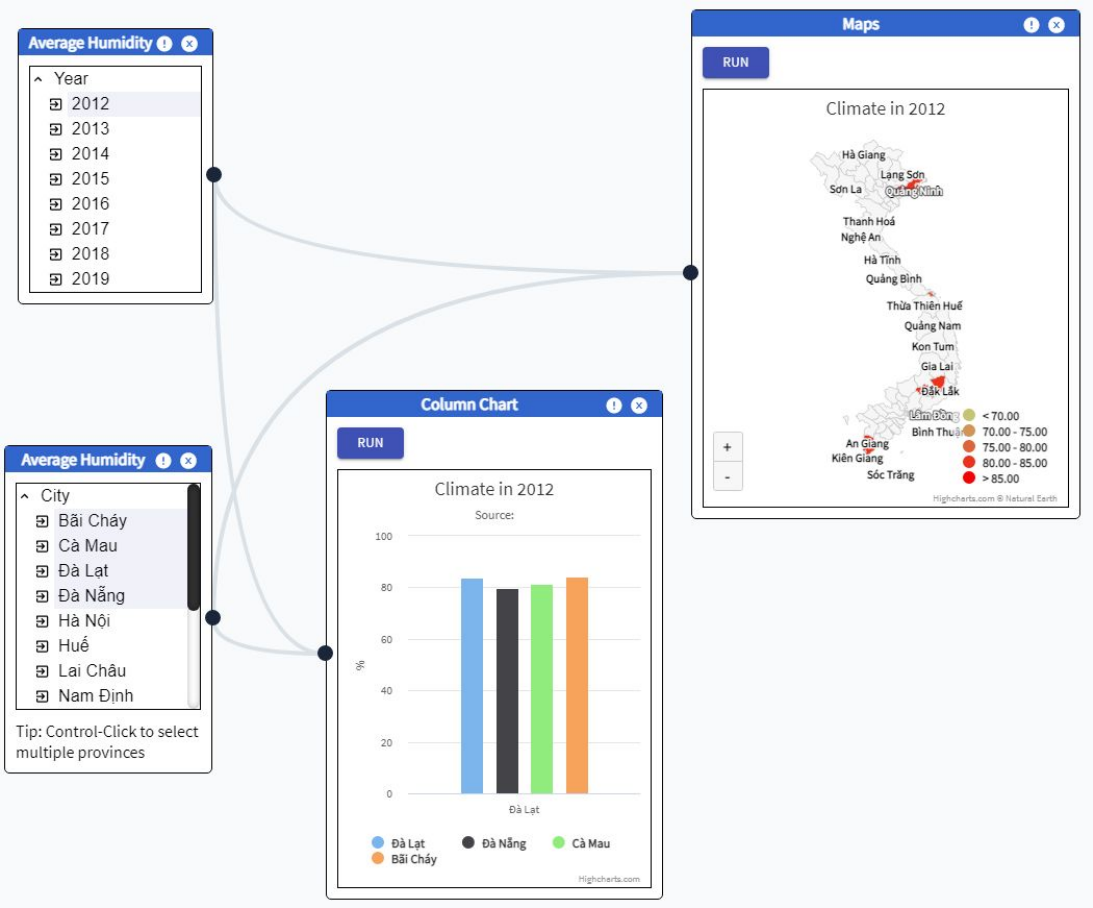
Maps



Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Industry of VN 2012 to 2019
2	Port	button	Port in	
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 18 • From 18 to 22	

			• From 22 to 25 • From 25 to 28 • From 28 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Humidity of VN ${year}”	Humidity of VN 2012

Viz data Cities in year



Cities In Year				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px;	Humidity of cities in year

			colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	
2	Chart	Column	Width: 300px;	Humidity of cities in year
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 80 • From 80 to 100 • From 100 to 110 • From 110 to 120 • From 120 to 130 • From 130 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Humidity in ${year}”	Humidity in year

2.10. Rainfall

2.10.1. IN TREE VIEW

Filter By Year

Rainfall				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Average Rainfall
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container

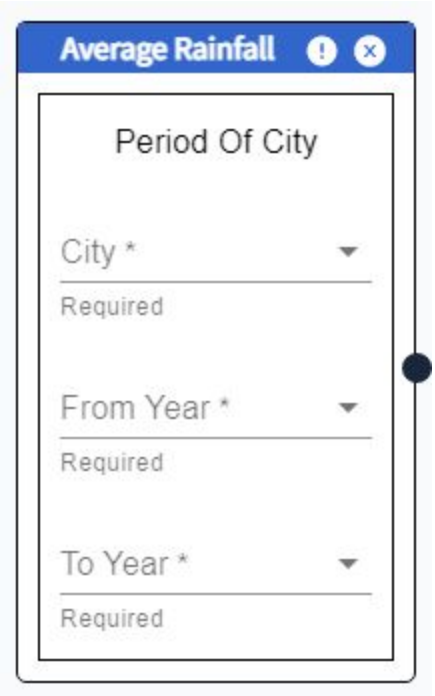
6	Data		2012 to 2019	

Filter By City

Rainfall				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget

				info in Info container
6	Data		Cà Mau, Đà Lạt, Đà Nẵng, Hà Nội, Huế, Lai Châu, Nam Định, Nha Trang, Pleiku, Qui Nhơn, Sơn La, Tuyên Quang, Vinh, Vũng Tàu	

Filter By Period of City

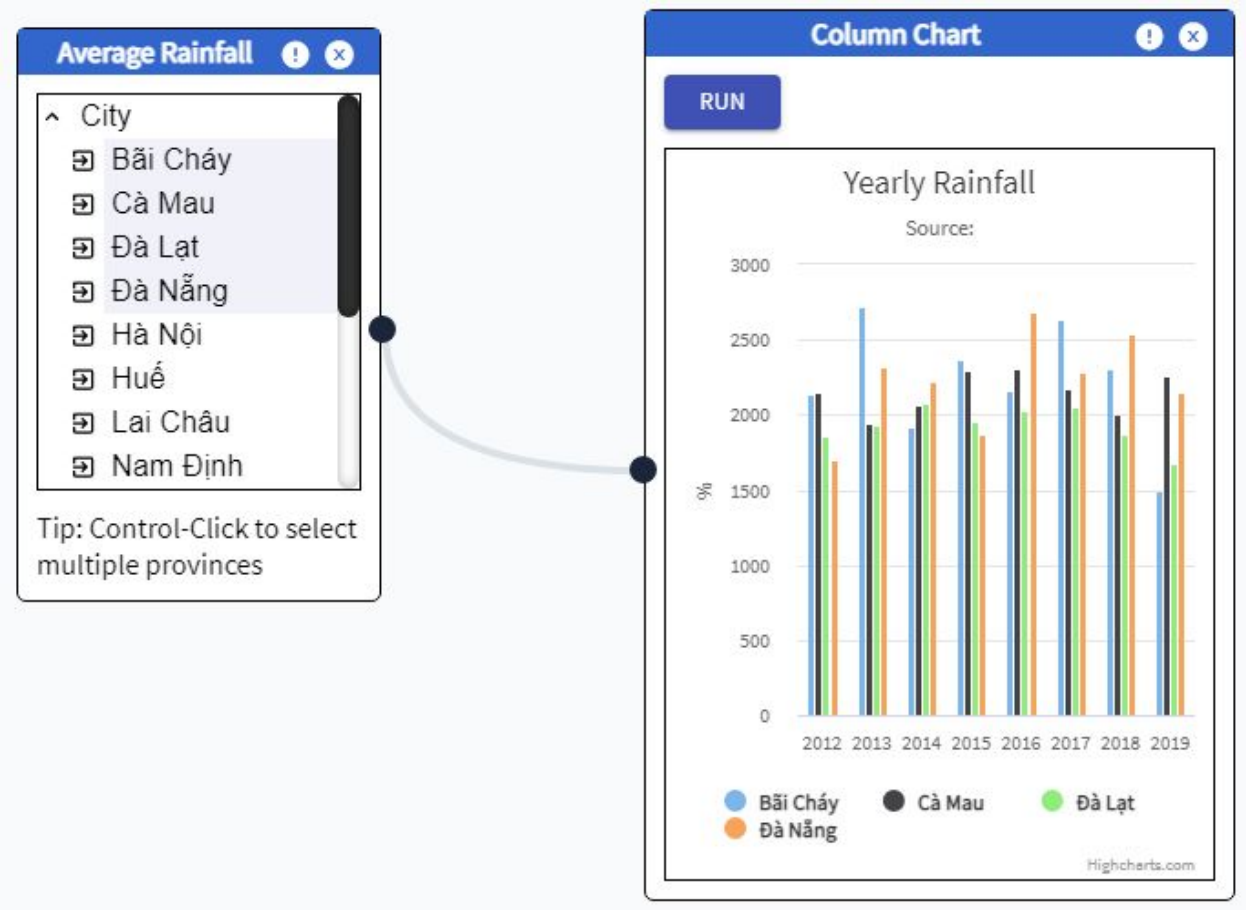


Rainfall				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro”	Industry Production

			Font-weight: bold	
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container
6	Data		City: Cà Mau, Đà Lạt, Đà Nẵng, Hà Nội, Huế, Lai Châu, Nam Định, Nha Trang, Pleiku, Qui Nhơn, Sơn La, Tuyên Quang, Vinh, Vũng Tàu FromYear: 2012 to 2019 ToYear: 2012 to 2019 ToYear > FromYear	

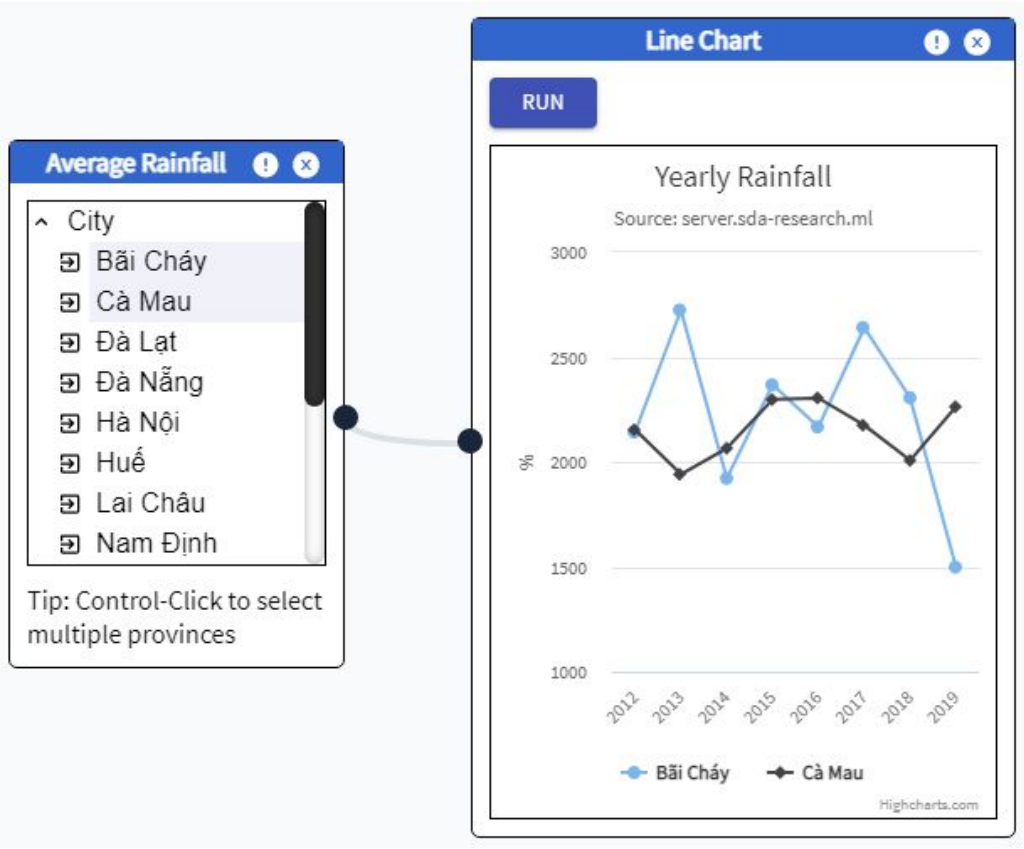
2.10.2. IN VISUALIZATION

Column



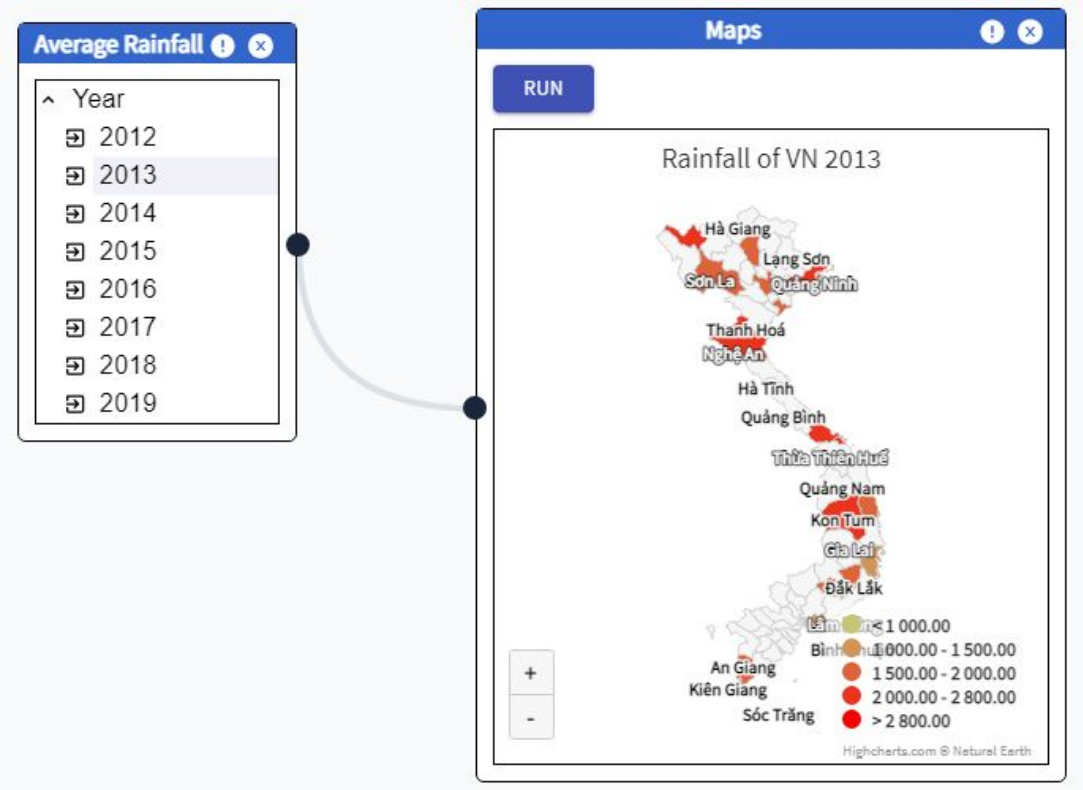
Column				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Column	Width: 350px;	Industry of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Line Chart



Line				
No.	**Field name**	**Type**	**Require**	**Target**
1	Chart	Line	Width: 350px;	Rainfall of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Maps



Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Industry of VN 2012 to 2019
2	Port	button	Port in	
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 18 • From 18 to 22	

			• From 22 to 25 • From 25 to 28 • From 28 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Rainfall of VN ${year}”	Rainfall of VN 2012

Viz data Cities in year

Cities In Year				
No.	**Field name**	**Type**	**Require**	**Target**

1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Rainfall of cities in year
2	Chart	Column	Width: 300px;	Rainfall of cities in year
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 80 • From 80 to 100 • From 100 to 110 • From 110 to 120 • From 120 to 130 • From 130 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Rainfall in ${year}”	Rainfall in year

2.11. Population

2.11.1. IN TREE VIEW

Filter By Year

Population				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Average Population
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container

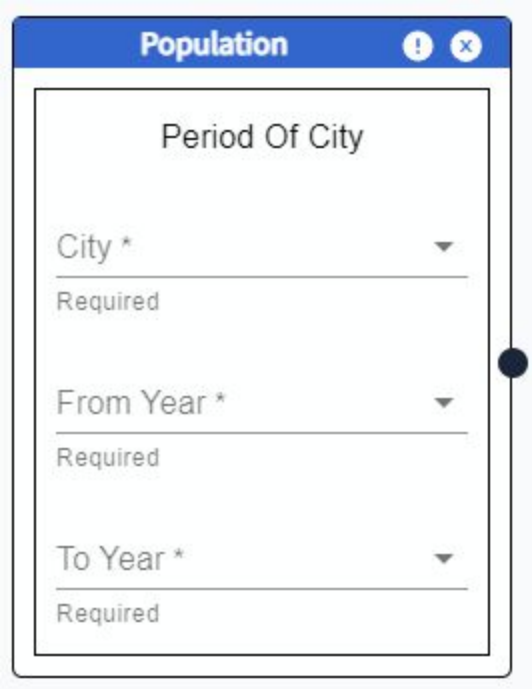
6	Data		2012 to 2019	

Filter By City

Population				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: "Source sans pro" Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	
5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget

				info in Info container
6	Data		64 cities in VN	

Filter By Period of City



Population				
No.	**Field name**	**Type**	**Require**	**Target**
1	Icon	image	Icon name: MdExpandLess, MdExpandMore, MdExitToApp	
2	Header	P tag	Font-size: 16px Font-family: “Source sans pro” Font-weight: bold	Industry Production
3	Close	button	Icon name: AiFillCloseCircle	When onClick, close the node
4	Port	button	Port In & Port Out	

5	Info	button	Icon name: RiErrorWarningFill	When onClick, display widget info in Info container
6	Data		City: 64 cites in VN FromYear: 2012 to 2019 ToYear: 2012 to 2019 ToYear > FromYear	

2.11.2. IN VISUALIZATION

Column

Column

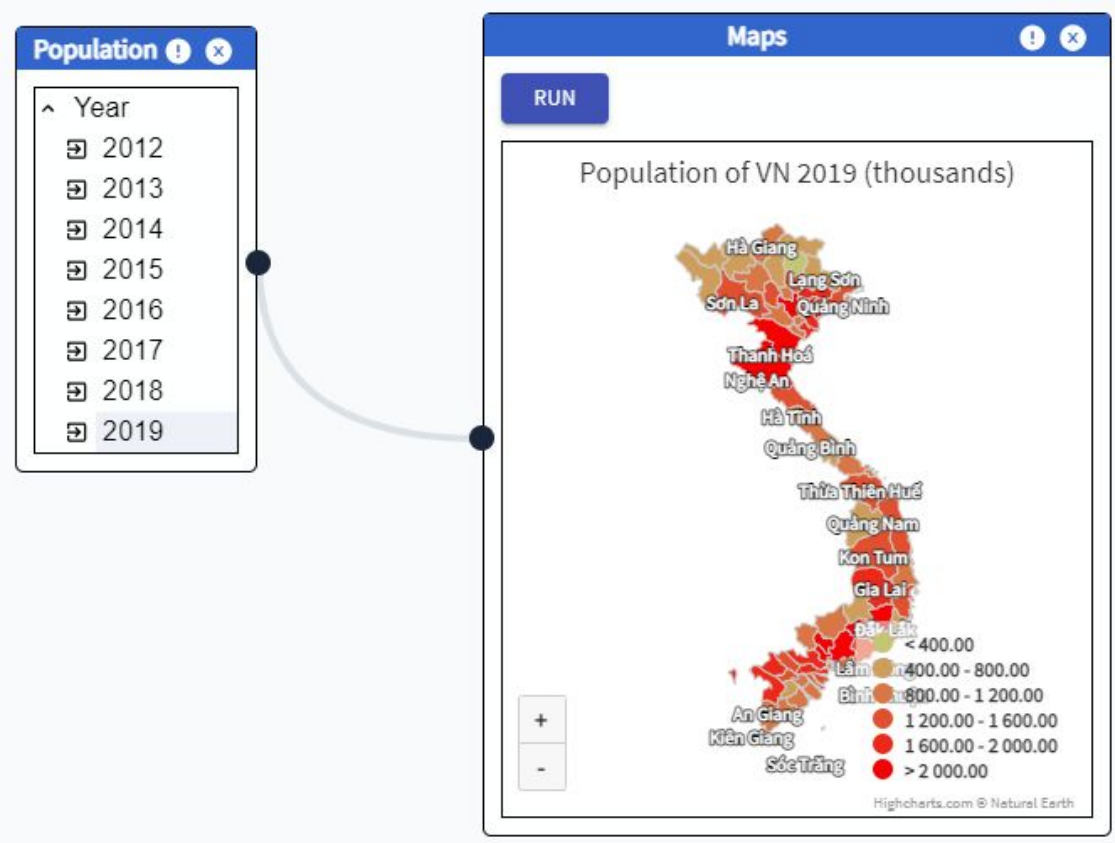
No.	Field name	Type	Require	Target
1	Chart	Column	Width: 350px;	Industry of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Line Chart

Line				
No.	**Field name**	**Type**	**Require**	**Target**

1	Chart	Line	Width: 350px;	Population of cities from 2012 to 2019
2	Port	button	Port in	
3	Maps Title		Default: “” Running: “Industry of VN ${year}”	Industry of VN 2012

Maps



Maps				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px;	Industry of VN 2012 to 2019

			colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	
2	Port	button	Port in	
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)", colorRange: • To 18 • From 18 to 22 • From 22 to 25 • From 25 to 28 • From 28 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Population of VN ${year}”	Population of VN 2012

Viz data Cities in year

Cities In Year				
No.	**Field name**	**Type**	**Require**	**Target**
1	Maps	HighChart/Highmaps	Width: 350px; colorAxis: min: 50, minColor: "#E6E7E8", maxColor: "#005645",	Population of cities in year
2	Chart	Column	Width: 300px;	Population of cities in year
3	colorAxis		Min: 0 minColor: b"rgb(197, 197, 115)", maxColor: "rgb(247, 2, 2)",	

			colorRange: • To 80 • From 80 to 100 • From 100 to 110 • From 110 to 120 • From 120 to 130 • From 130 Hover: color: #EEDD66	
4	Maps Title		Default: “” Running: “Population in ${year}”	Population in year