

How to Create a Clotho Application in 30 minutes

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“Clotho 3.0 Launch Party”

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Overview

- Coding Requirements
- Demo
- Resources
- Discussion

Coding Requirements (Basic)



Basic HTML
(Elements & Attributes)



JavaScript
(Basic understanding
of functions)



CSS
(Depends on how pretty
you want your app to look)



Power User



Basic HTML



Bower



JavaScript



Angular JS



Python



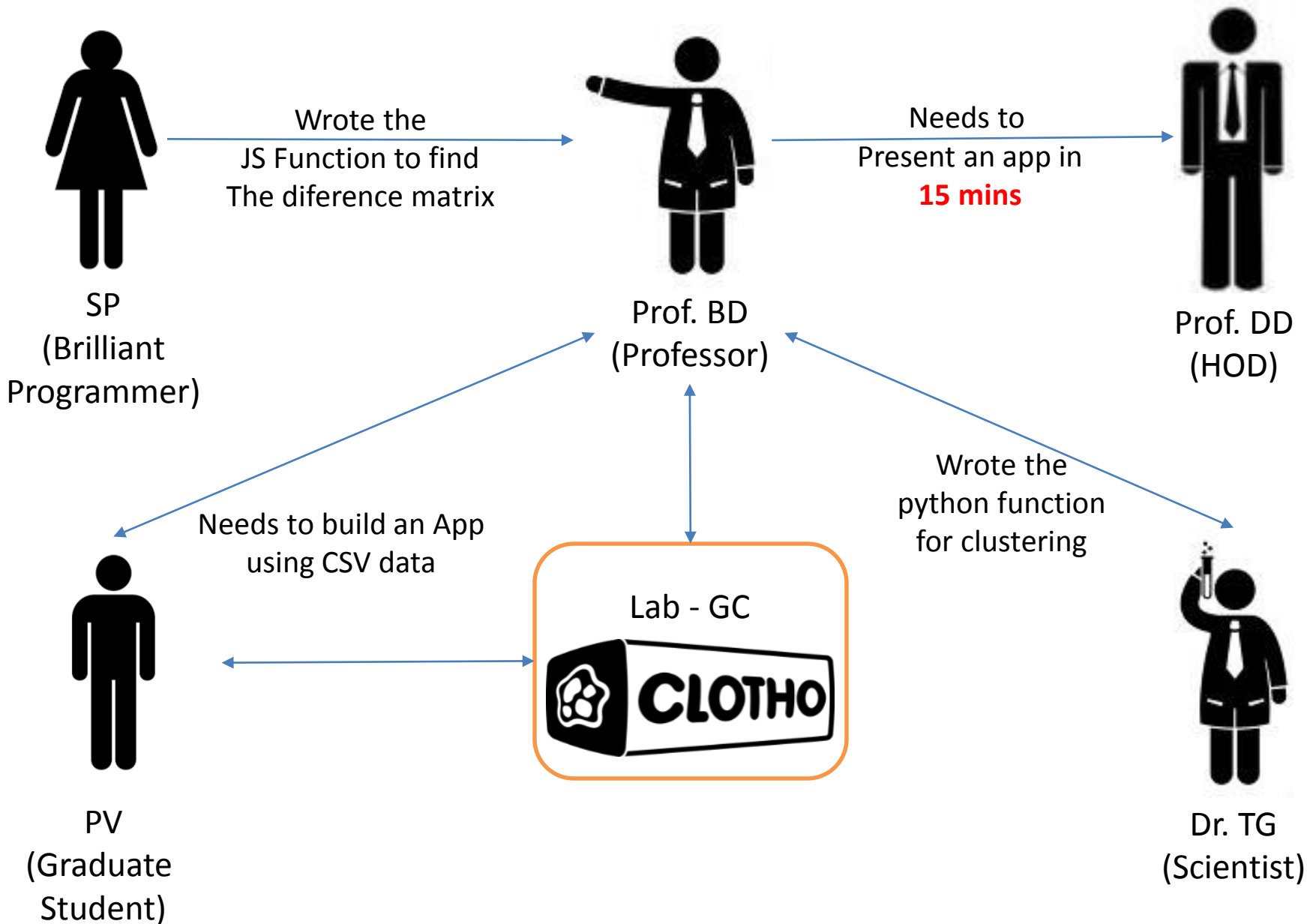
CSS

Building an App





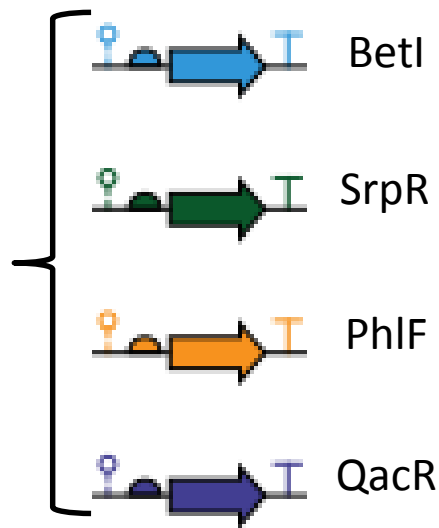
This is the story of a Graduate Student


























App Specifics

- Login to Clotho
- Upload assignments and store them in Clotho.
 - Input is a CSV File
- Load the JS difference matrix function in Clotho
- Use the cluster function python function
- Display Cluster Groups

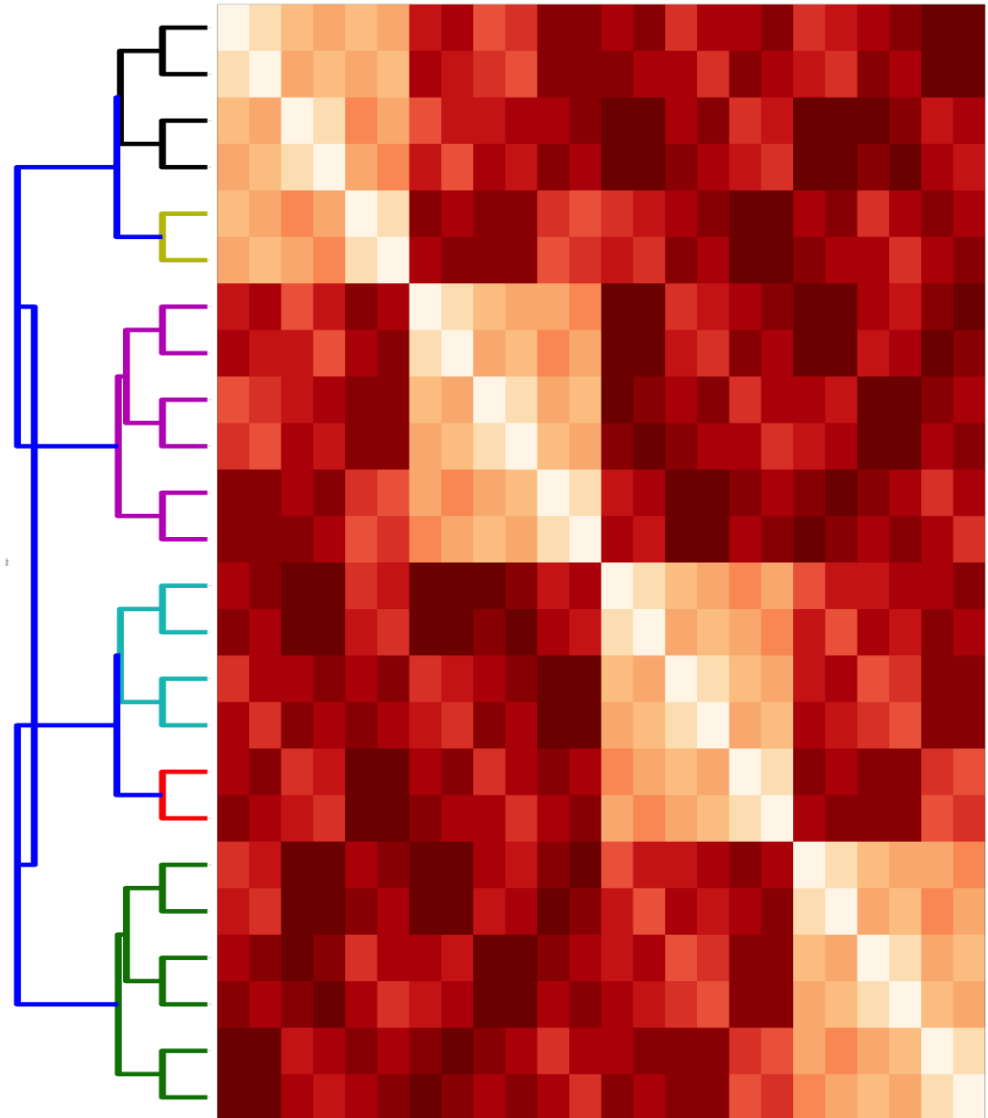
Boolean gates



	1
	2
	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16
	17
	18
	19
	20
	21
	22
	23
	24

App - Background

Group_1	1	9	16
	20	21	24
Group_2	12	17	
Group_3	2	3	14
	22		
Group_4	5	6	8
	11	13	18
Group_5	7	4	
Group_6	10	15	19
	23		



CSV - Background

- CSV = comma-separated values

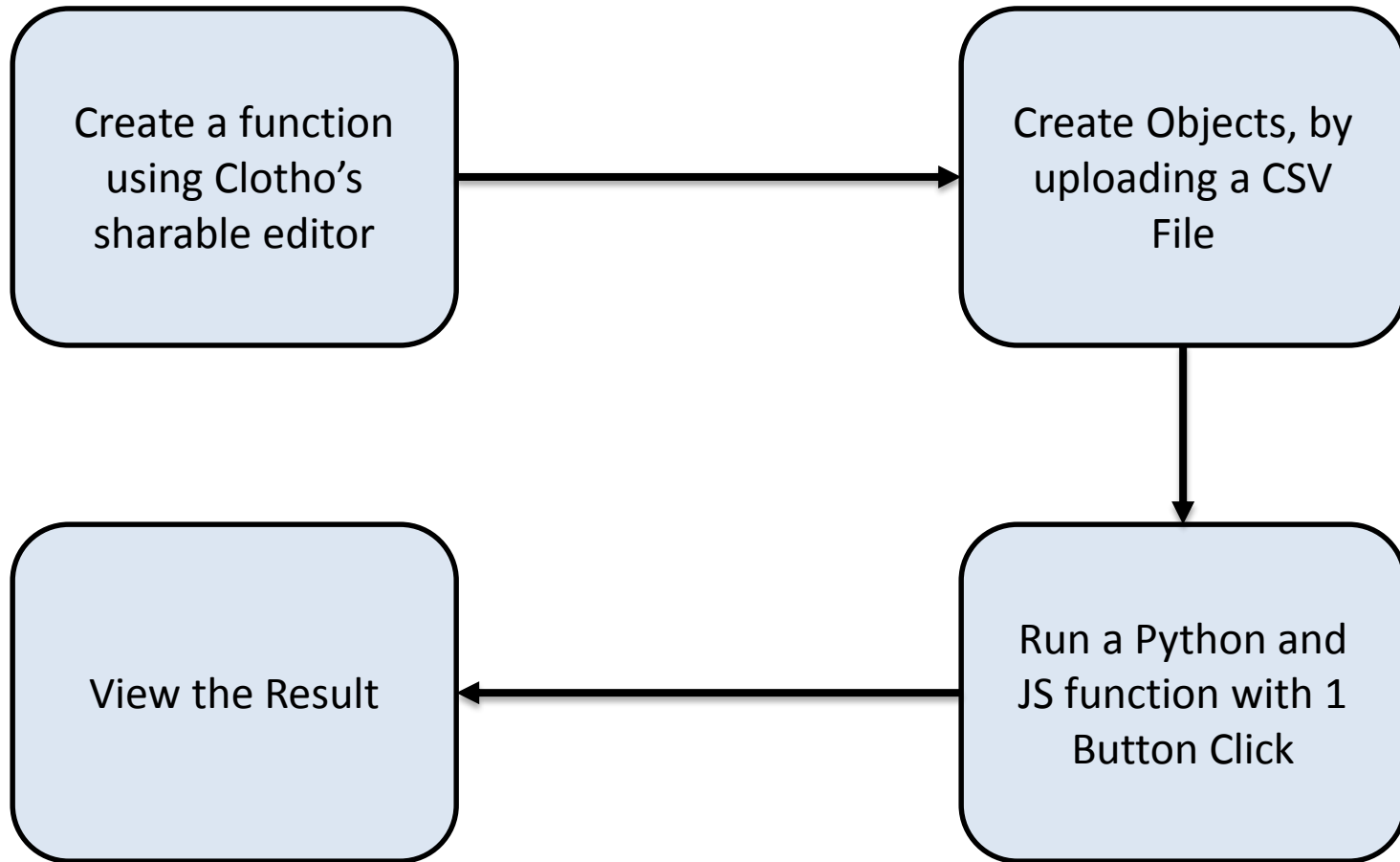
Eg:

name,age	=	[
John,24		{
Tina,26		"name": "John", "age": "24"
		},
		{
		"name": "Tina", "age": "26"
		}
]

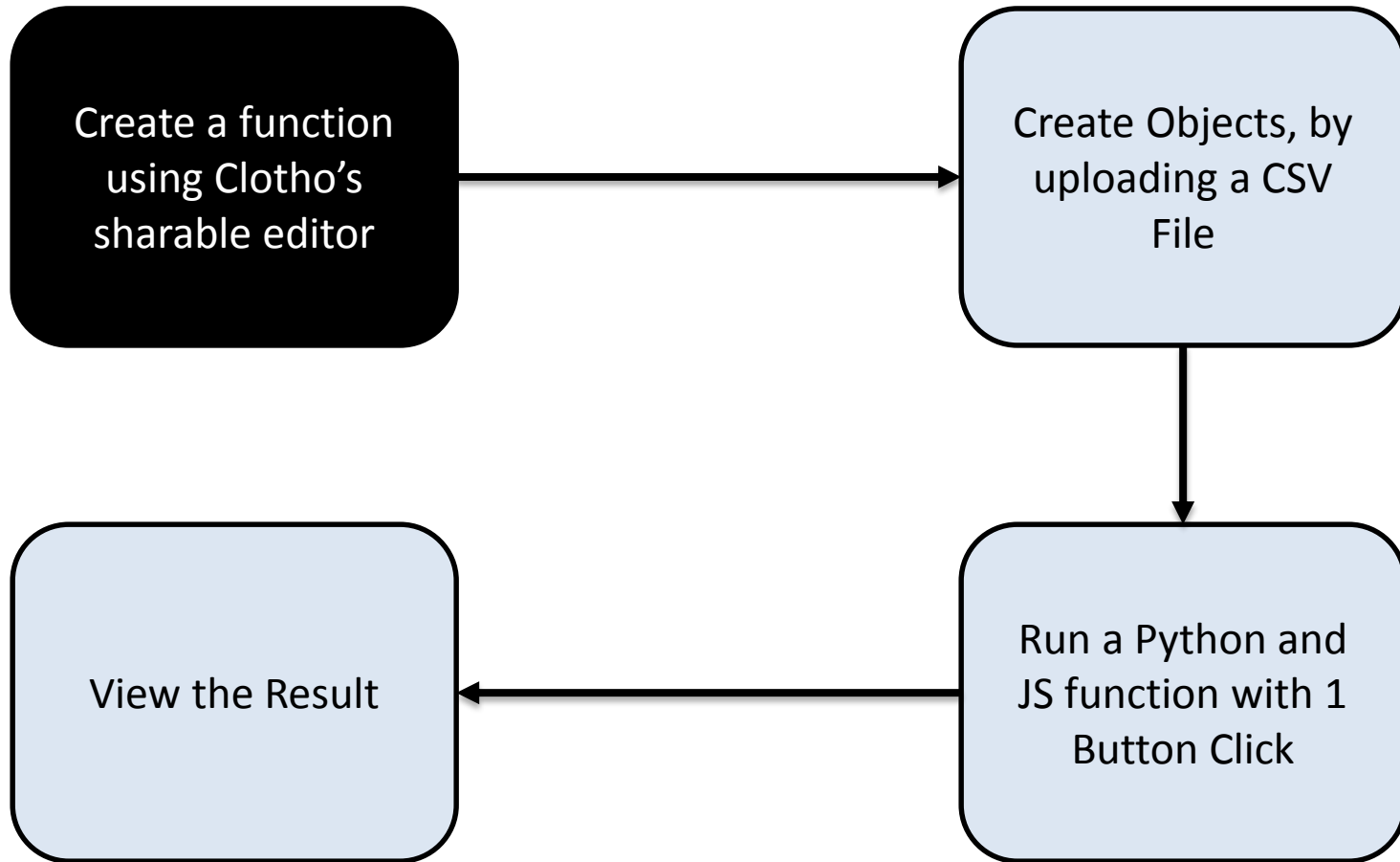
DEMO



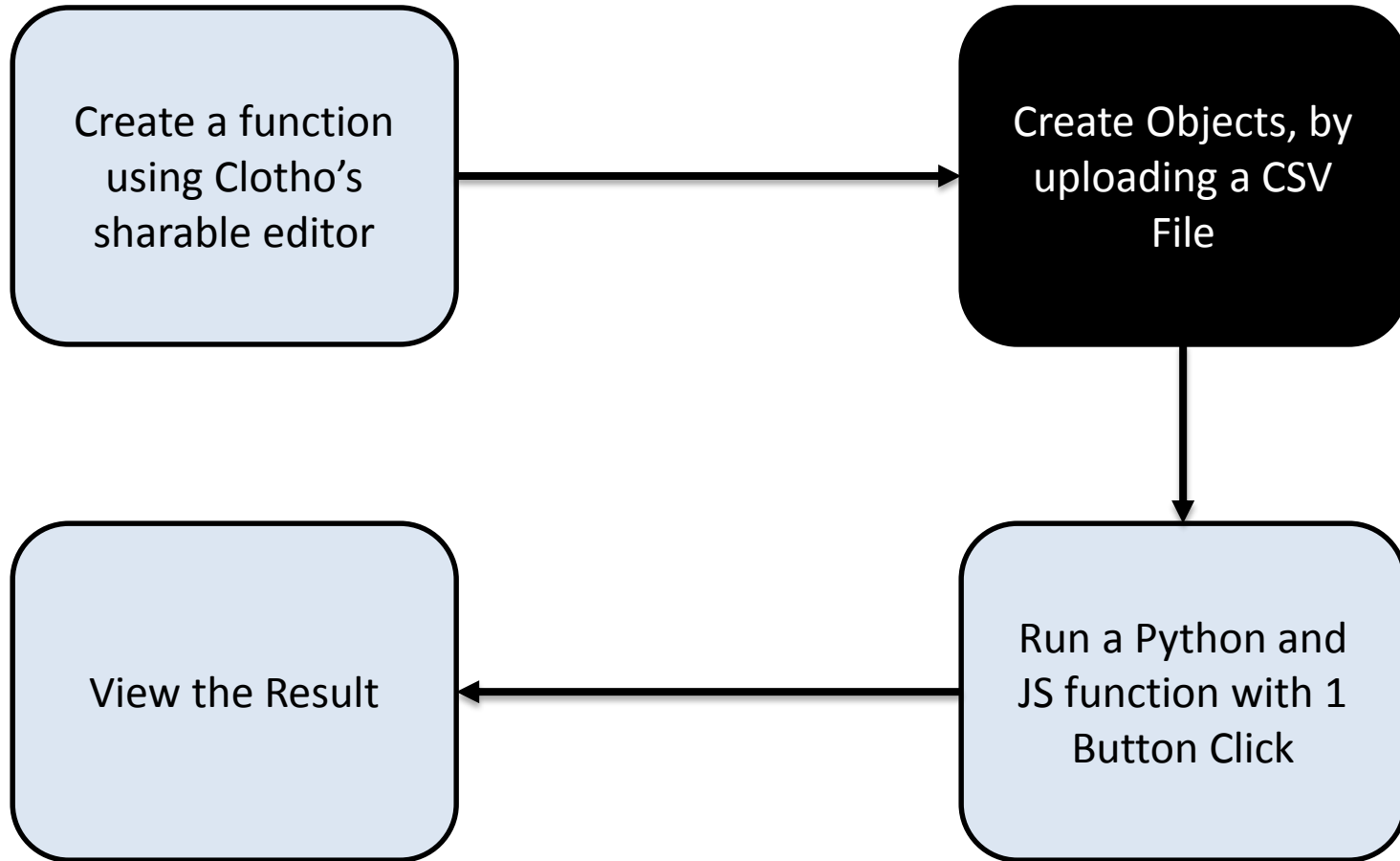
Demo Stand-alone App



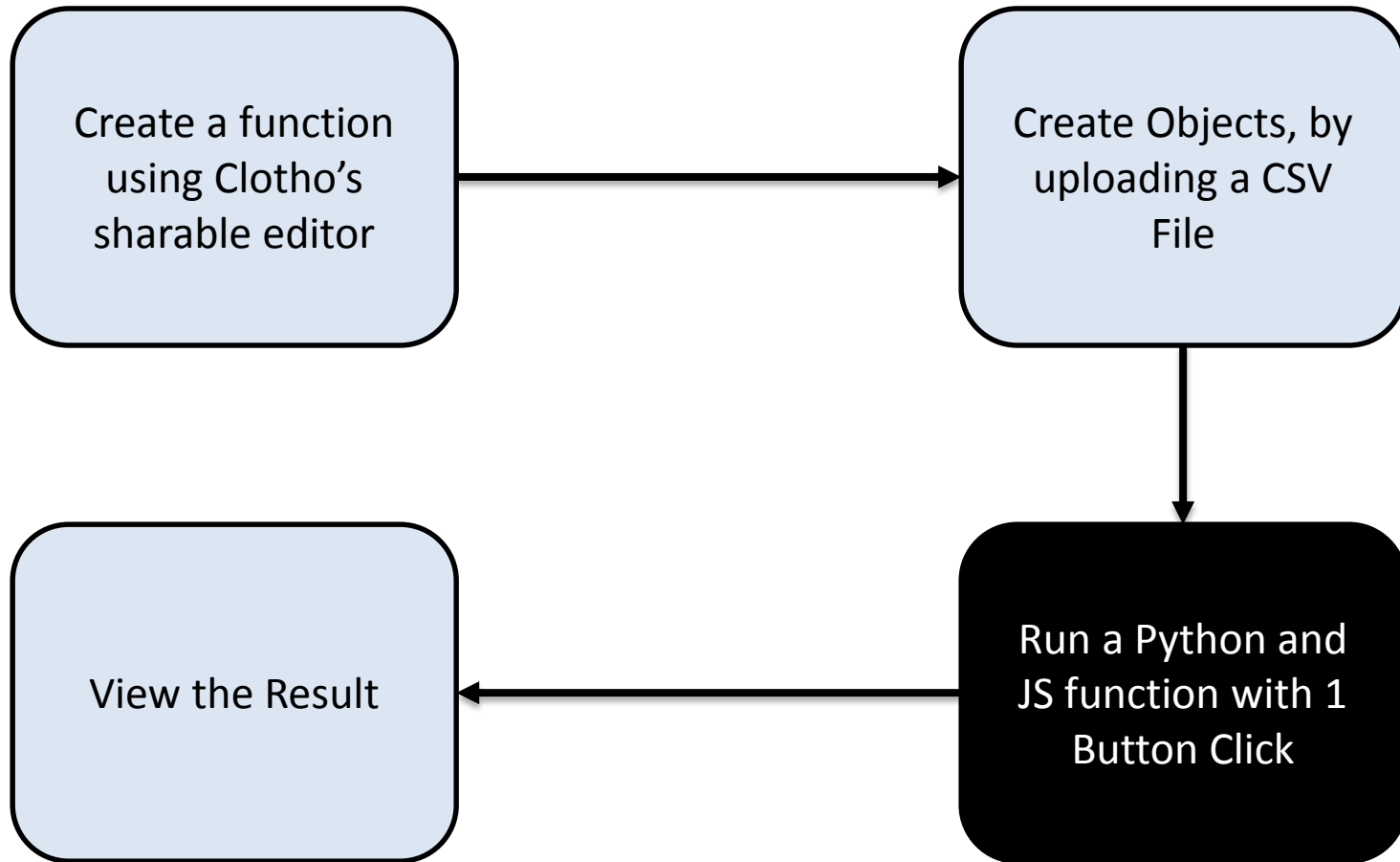
Demo Stand-alone App



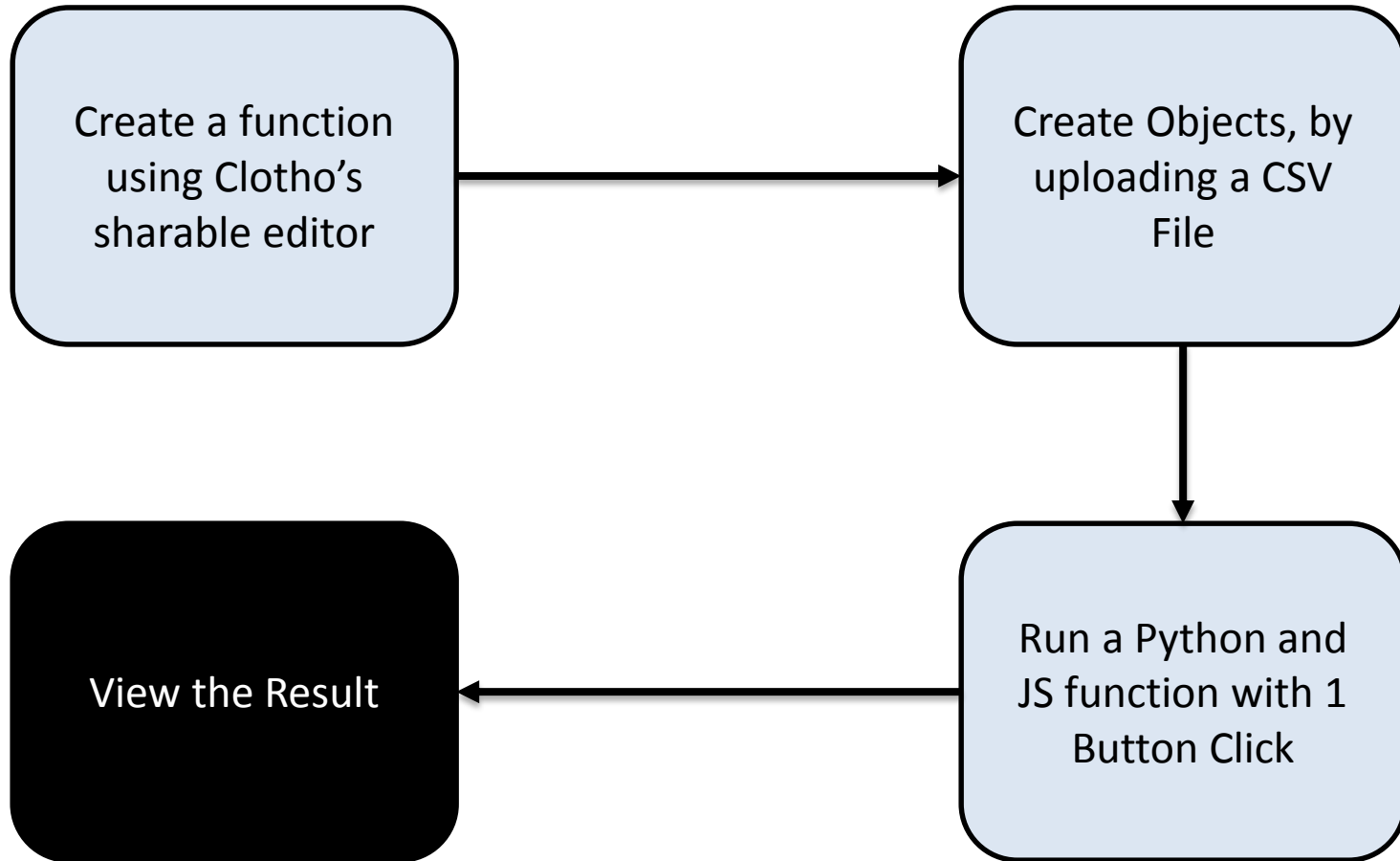
Demo Stand-alone App



Demo Stand-alone App



Demo Stand-alone App



Resources

- JavaScript API (for Web-Applications)
 - <https://github.com/CIDARLAB/clotho3API>
- Java API (For serverside Applications)
 - <https://github.com/CIDARLAB/clotho3JavaAPI>
- Demo code available at:
 - www.clothohelp.org

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