## Lab 3:Wep application with genie

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## I. INTRODUCTION:

In our lab, we employed the Genie Framework in Julia. Genie is a complete MVC web framework that streamlines and streamlines the workflow for developing modern web applications. It leverages Julia's strengths (high-level, high-performance, dynamic, JIT-computed), revealing a rich API and a powerful toolset for efficient web development.

## II. . EXERCICES:

• In the first exercice we add extra slide that modify the behaviour of the sine wave graph by adding: Phase ranging between  $-\pi$  and  $\pi$ , changes by a step of  $\pi/100$ .

figure 1: Adding the phase function in julia

• figure 2: Adding the phase function in HTML

Then in the second application we add the offset function : Offset varies from -0.5 to 1, by a step of 0.1

• Figure 3: Adding the offset function in Julia

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• Figure 4: Adding the offset function in HTML

After that we open the Julia REPL in order to open the web app

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Documentation: https://docs.julialang.org

Type "?" for help, "]?" for Pkg help.

Version 1.10.2 (2024-03-01)

official https://julialang.org/ release

julia> cd("/home/medraed/Bureau/correctionTAB3")

julia> using GenteFramework

julia> Gente.loadapp()
```

- Figure 5: Julia REPL
- -Now we have the sine wave and we can change every parameter thanks to the graphic interface

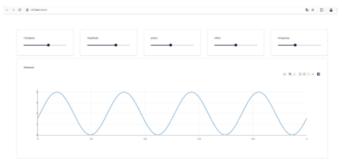


Figure 6: Sine Wave

## III. CONCLUSION:

-This lab has the ability to utilize Genie Lab in Julia to design a mathematical web app.