Lab 3: Web Application with Genie

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I. Introduction

In this Lab we used Genie Framework in julia, Genie is a full-stack MVC web framework that provides a streamlined and efficient workflow for developing modern web applications. It builds on Julia's strengths (high-level, high-performance, dynamic, JIT compiled), exposing a rich API and a powerful toolset for productive web development.

II. EXERCICES

• In the first task we add extra slide that modify the behaviour of the sine wave graph by adding: *Phase* ranging between $-\pi$ and π , changes by a step of $\frac{\pi}{100}$

Figure 1: Adding the phase function in julia

Figure 2: Adding the phase function in HTML

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

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Figure 3: Adding the offset function in Julia

Figure 4: Adding the offset function in HTML

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



Figure 5: Julia REPL

• Now, we have the sine wave and we can change every parameter thanks to the graphic interface

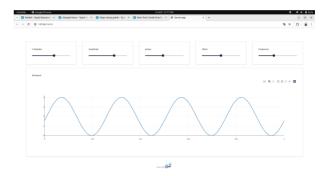


Figure 6: Sine Wave

III. CONCLUSION

In this Lab we have the ability to use Genie Lab in julia to design a mathematical web app

REFERENCES

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