MATALEM

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PROJECT'S OBJECTIVES

Our idea is creating web application, which provides compilation resources with specific cost so consumers may buy it and make some mathematical expressions that their computers “can not execute” (those mathematical expressions can actually execute any computer, and we are doing it for showing the idea). Also provide information about CPU and RAM loading.

MAIN FEATURES

1. Computing Taylor Sin
2. Computing Taylor Cos
3. Computing Taylor Tan
4. Computing Taylor Cot
5. Computing Exponential series

$$\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \cdots = \sum_{k=0}^{n} \frac{(-1)^k x^{2k}}{(2k)!}$$

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \cdots = \sum_{k=0}^{n} \frac{(-1)^k x^{2k+1}}{(2k+1)!}$$

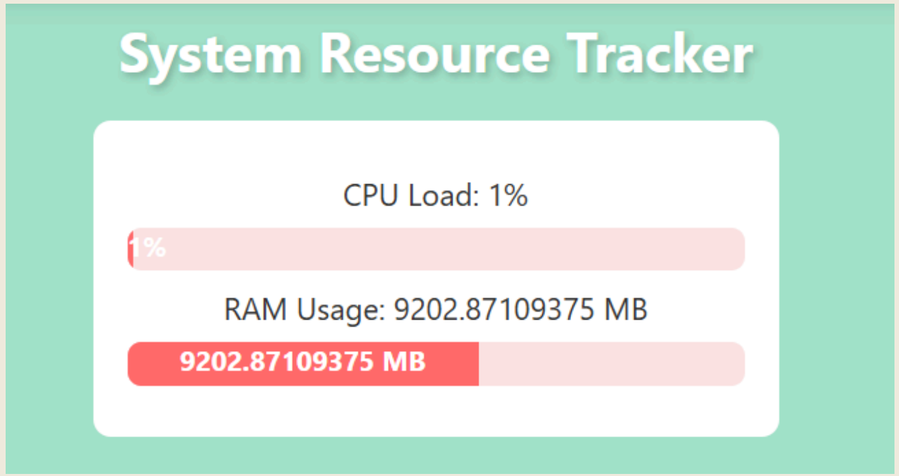
$$\cosh x = 1 + \frac{x^2}{2!} + \frac{x^4}{4!} + \cdots = \sum_{k=0}^{n} \frac{x^{2k}}{(2k)!}$$

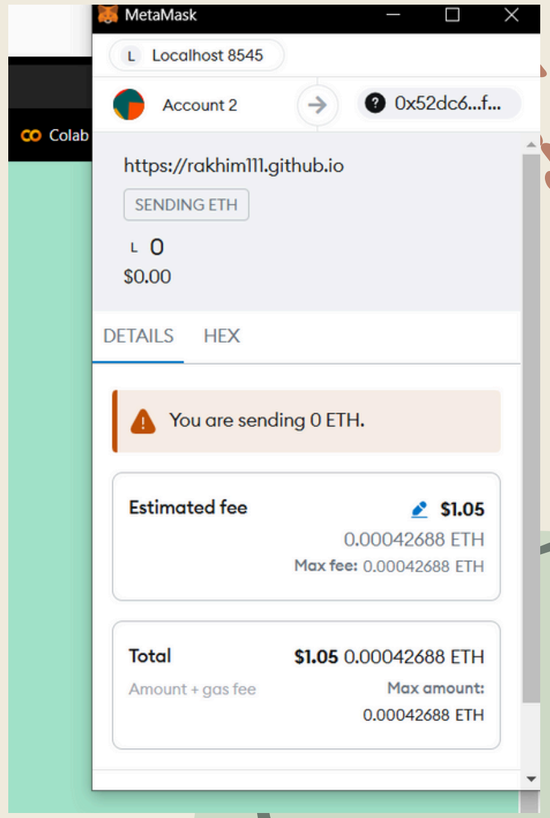
$$\sinh x = x + \frac{x^3}{3!} + \frac{x^5}{5!} + \cdots = \sum_{k=0}^{n} \frac{x^{2k+1}}{(2k+1)!}$$

$$\tan^{-1} x = x - \frac{x^3}{3} + \frac{x^5}{5} - \frac{x^7}{7} + \cdots \qquad (-1 \le x < 1)$$

TECHNICAL FEATURES

1. Connection to Metamask account
2. CPU, RAM usage tracking on main server
3. Billing system





UTILIZED TOOLS

WALLET

CPU RAM USAGE
TRACKING

ETHEREUM DISTRIBUTOR

SMARTCONTRACT
COMPILER/DEPLOYER

DEPLOYMENT TOOLS FOR
RUNNING A WEB SERVER

BACKEND FRAMEWORK

IMPACT

1. Accessible Computation: Simulates high-demand computations, making users feel less restricted by their hardware.
2. Resource Monitoring: Provides insights into CPU and RAM usage, helping users optimize performance.
3. Educational Tool: Demonstrates computational resource usage and math problem-solving.

THANK YOU!

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