Web Technology



Variable management exercises through branching and arithmetic

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A. Problem.

Silakan adik-adik ikuti latihan sesuai contoh pada video untuk memahami penggunaan kondisi percabangan pada operasi matematika dan manajemen variabel. GUnakan studi kasus berbeda, yang penting sesuai dengan ketentuan.

Ketentuan:

- Antarmuka form input untuk menampung inputan variabel.
- Controller untuk mengolah inputan
- Antarmuka output pada aplikasi untuk menampilkan hasil perhitungan

Kumpulkan dalam pdf laporan dan hasil praktikum.

B. Basic Theory

1. PHP.

PHP is an open-source server-side scripting language that many devs use for web development. It is also a general-purpose language that you can use to make lots of projects, including Graphical User Interfaces (GUIs).

The abbreviation PHP initially stood for Personal Homepage. But now it is a recursive acronym for Hypertext Preprocessor. (It's recursive in the sense that the first word itself is an abbreviation, so the full meaning doesn't follow the abbreviation.)

2. Validation Request Method.

Validation is the process of checking the incoming data. By default, laravel provides the base controller class that uses the ValidatesRequests trait to validate all the incoming Http requests.

3. Laravel.

Laravel is an open-source PHP framework, which is robust and easy to understand. It follows a model-view-controller design pattern. Laravel reuses the existing components of different frameworks which helps in creating a web application. The web application thus designed is more structured and pragmatic.

C. Descriptions.

In this development of this Fibonacci website, I'm using some tools to help me create and getting ready for it, the tools namely:

1. Visual Studio Code.

Visual studio code is a software to write code from various code language and you compile your code on it. I'm use this software to prepare and wrote my code cause thus software so much helping because the extension.

A. Structure code.

1. Fibonacci Controller.

This controller is processing the value that inputted by user. This controller having 2 function they are Function index and function output. Function index is setting up the view for user interface and the function is to count the Fibonacci series and process the value that inputted by user and will be display the output to view using validation request.

2. Fibonacci Routes.

Fibonacci routes is a route the get and POST the Fibonacci controller to Fibonacci interface.

3. Output Validation Request.

This outputValidationRequest is for authorize the input that requested by user and knowing data that user input is correct or not, if correct will be displaye by 'Success' if not will be displaye by 'Error'.

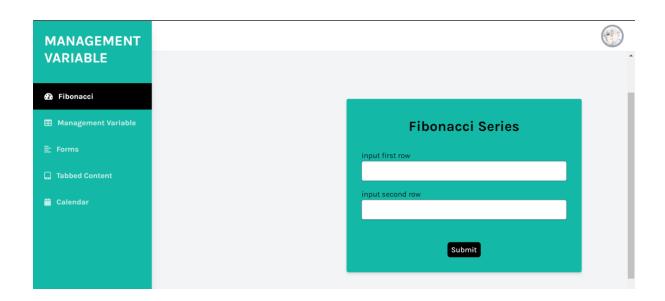
4. Fibonacci Interface.

Fibonnaci interface is the interface that will be displayed to user. This Interface using PHP, Tailwind, and HTML to make the component of the website. And this interface using template-layout to displaying the other interface for the user.

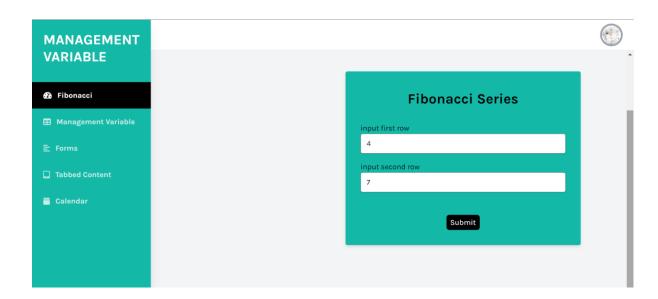
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B. result.

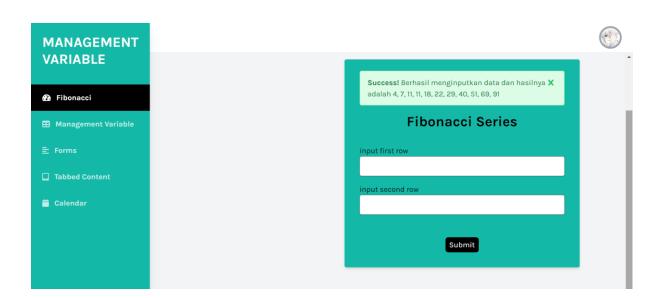
This Website using get and POST so the user first time visit the website user will be directed to FibonacciController and the controller will be return to view of the Fibonacci page.



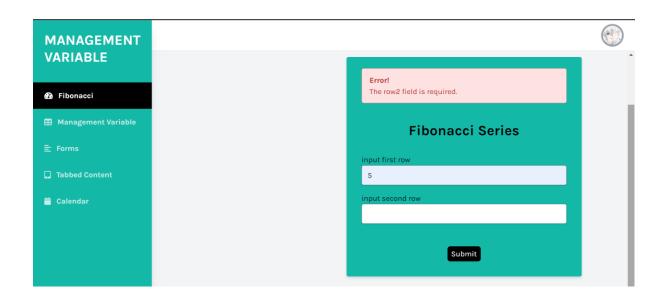
1. Input.

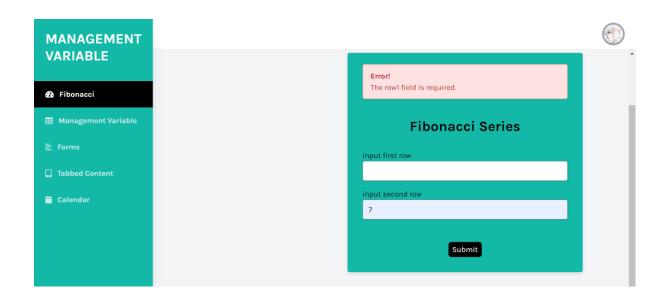


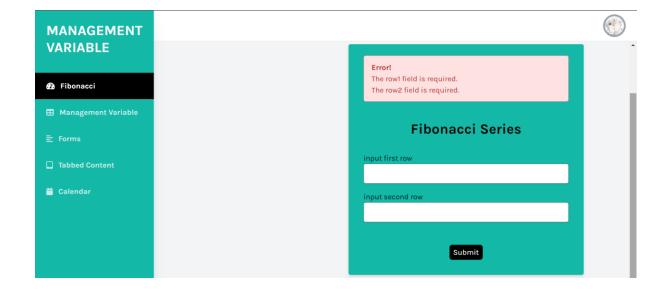
2. Output.



3. If Error.







C. Conclusions.

So in this project of Laravel management variable, we get learning more about PHP and more learning to it's framework Laravel. We learning to use the request method so we can understand the component, controller, route, and interface work. We understand that all of them is complement one and another. The Request is have many method, but for now we will use MVC and Validation method only.

D. Source Code.

Github Link:

• URL Github Profile : https://github.com/SamjoeTL

• URL Fibonacci : https://github.com/SamjoeTL/Fibonacci-

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