Documentația Proiectului "K Documentation Generator"

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1 Introduction

1.1 Descriere proiect

Proiectul "K Documentation Generator" reprezinta un tool care preia un fisier .k si genereaza o pagina HTML bazata pe comentariile din interiorul fisierului .k

1.2 Motivul alegerei temei

Am ales acest proiect deoarece pentru versiunile actuale de K, tool-ul de generare a documentatiei nu mai functioneaza

2 Tehnologii utilizate

Proiectul este realizat in limbajul C++ si CSS. O sa folosesc CSS pentru a evita tagurile goale luate de HTML, < k >< /k >, < env >, etc.

3 Arhitectura Aplicatiei

Se da ca input locatia fisierului K iar acesta creeaza la adresa fisierului K, documentatia HTML

3.1 Input

```
//title: A simple k script
//description: Tuxedo cats always looking dapper drool have a lot of grump in
yourself because you can't forget to be grumpy and not be like king grumpy cat
cats are fats i like to pets them they like to meow back.
//<introduction>
///description: Shove bum in owner's face like camera lens plop down in the middle
where everybody walks yet cough. You are a captive audience while sitting on the
toilet, pet me eat an easter feather as if it were a bird then burp victoriously.
//</introduction>
//<syntax>
///description: Fight an alligator and win intently stare at the same spot soft
kitty warm kitty little ball of furr so ptracy.
module IMP-SYNTAX
    syntax AExp ::= Int // builtin
                  Id // builtin
                   String // builtin
                   "++" Id
                | Id "++"
                > left:
                AExp "*" AExp [left]
                AExp "/" AExp [left]
                > left:
                AExp "+" AExp [left, strict]
                | AExp "-" AExp [left]
                  "(" AExp ")" [bracket]
   endmodule
 //</syntax>
///description: Catty ipsum get my claw stuck in the dog's ear for scratch my
tummy actually i hate you now fight me.
   module IMP
       imports IMP-SYNTAX
       syntax KResult ::= Bool | Int | String
    configuration <k> $PGM:Stmt </k>
        <env> .Map </env>
        <store> .Map </store>
        <stack> .List </stack>
        <in stream="stdin"> .List </in>
        <out stream="stdout"> .List </out>
    rule I1:Int <= I2:Int => I1 <=Int I2
    rule I1:Int + I2:Int => I1 +Int I2
    rule S1:Stmt S2:Stmt => S1 ~> S2
    endmodule
//</definition>
```

3.2 Output

A simple k script

Tuxedo cats always looking dapper drool have a lot of grump in yourself because you can't forget to be grumpy and not be like king grumpy cat cats are fats i like to pets them they like to meow back.

Introduction

Shove burn in owner's face like camera lens plop down in the middle where everybody walks yet cough. You are a captive audience while sitting on the toilet, pet me eat an easter feather as if it were a bird then burp victoriously.

Syntax

Fight an alligator and win intently stare at the same spot soft kitty warm kitty little ball of furr so ptracy.

Definition

Catty ipsum get my claw stuck in the dog's ear for scratch my tummy actually i hate you now fight me.

4 Detalii de implementare

• //title: Titlu

• //description: Descriere

• < somename > < /somename > :tot textul din bloc nu e considerat a un atribut, o sa fie considerat ca si cod

In cazul in care se afla unul dintre atribute in interiorul unui bloc, acesta o sa fie luat ca parte a codului.

Parsarea din K in HTML o sa se faca parsand blocurile intr-un arbore.

5 Bibliografie

References

- [1] https://www.overleaf.com/learn/latex
- [2] https://www.google.com/
- [3] https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet
- [4] https://stackoverflow.com/
- [5] http://www.kframework.org/index.php/ $K_Tutorialhttps$: //www.latex project.org/help/documentation

6 De implement

[6] //color: Culoare la linie

 $\bullet\,$ //newline: Insereaza spatiu

 \bullet //h1,2,3,4 : Modifica marimea la caractere in functie de nr h