# 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

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

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- [4] https://stackoverflow.com/
- [5] http:  $//www.kframework.org/index.php/K_Tutorialhttps$ //www.latex-project.org/help/documentation