# **FUNCTION PARSER REFERENCE**



# TECHNICAL STAGES



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#### 1. OBJECTIVE

In order to provide a tool that simplifies and ensures the right way to input information in SmartContract features, function parser enableS to analyze the syntax of a string with the nomenclature of the smart contract methods/functions to be invoked and parse them into Katun BlokChain set of objects to be used in invoke/execute smart contracts events.

function:<function name>:['\n'|<space>|<blank>]

## 2. USAGES

### Syntax

```
arg:<data_type>:{<value>}:['\n'|<space>|<blank>]
...
arg:<data_type>:{<value>}:

arg = element to start the definition of an argument belonging to a function.

data type =
```

<boolean|byte|char|double|float|integer|long|object|string>
value = [any value introduced by the user compatible with the datatype
defined in the argument].

 Supported types boolean, byte, char, double, float, integer, long, object, string

Notice that the **arg** elements correspond only to the arguments to be input in the method/function to Its execution as we can see in the next example

## Example

The next code is a simple java class to be used as a SmartContract. This contract has 2 methods (**function**(s)), sum (with arguments (**arg**) "a" int/integer type and "b" int/integer type and message (no arguments).

```
public class test{
    int sum(int a, int b){
```

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```
return a+b;
}
String message(){
    return "this is a test";
}
```

The nomenclature to generate the execution/invoke string might be as follows:

```
function:sum:
arg:integer:{10}:
arg:integer:{10}:
function:message:
```

Expecting to get 2 katun.smartcontract.ui.common.entities.UIFunction objects with 2 katun.smartcontract.ui.common.objects.Attribute objects with name arg[0..n] (in this case arg[0-1]) and datatype as native int, and no arg, respectively.