**CMML –** chat message manipulation language

Description:

The programming language is meant as a tool for messaging and is supposed to offer an alternative way to manage them. It could also include style and interaction related functionalities, such as defining message type.

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| --- | --- |
| Examples of instructions: | Result: |
| “D+A".repeat(10) | DAAAAAAAAAA |
| Pe 27 am plecat, si tot pe 27 am ajuns..replace([27]29) | Pe 29 am plecat, si tot pe 29 am ajuns. |
| #14.upper | #14: Nu, nu stiu  #16: NU, NU STIU |
| #10.rightcut(3)+ ‘si ieri’ | #10: da, am fost azi  #12: da, am fost si ieri |
| #11.edit(‘Am coborat’) | #11: Nu am coborat  #11: Am coborat |
| nu vreau.reverse | un uaerv |

|  |  |
| --- | --- |
| Examples of styles: |  |
| button[tap here][Hello] | File:Dark blue right arrow.svg - Wikipedia |
| gift[happy new year] | Gift - Free christmas icons File:Dark blue right arrow.svg - Wikipedia |
| gift[generate(birthday)] | Birthday cake - Free food icons |

Complex instructions:

|  |  |
| --- | --- |
| def.walking(let’s go for a walk)  button[tap here][Hello].wait([2]walking) | File:Dark blue right arrow.svg - Wikipedia  After 2 seconds: |
| question[da][nu](vrei sa iesim la plimbare?) .response[  question[da][nu](  vrei sa mergem in parc?  ).response[super!][unde doresti?]  ][ok..] | nu-> ok..  da ->  da -> super!  nu-> unde doresti? |

Q&A:

* What domain will this language address?

Communication domain

The most important domain in the human life is the communication one. Humans are social person and they need to speak with their neighborhoods every day. In the 21st century when all activity transferred to online platforms, communication also transferred to online format. We use many messengers to speak with friends, neighborhoods and even with teachers. We will focus on a branch of communication domain and it will be message communication or chat applications. Text messaging, or texting, is the act of composing and sending electronic messages, typically consisting of alphabetic and numeric characters, between two or more users of mobile devices, desktops/laptops, or other type of compatible computer. Text messages may be sent over a cellular network, or may also be sent via an Internet connection.

* Why or how this domain could benefit from a DSL?

Communication domain is in a continued improvement. Every day appears new futures to simplify our daily communication with neighborhoods. A DSL can bring some new futures to text messages domain and improve it quality. It can contribute to the style of writing, to improve the user knowledge in programming and can create an interactive possibility of use. These are only some of new futures that can improve and simplify the quality of online communication. This will create a better user experience and will bring more pleasure to speak with people on online platforms.

* What problem will be solved by proposed language?

Our chat message manipulation language will create more interactive communication and will reduce boring texting. It is supposed to offer an alternative way to manage messages. It will learn people basic code syntax. So, our language will solve a bunch of problems, like: boring messages and interaction with people, wasting of time when you waiting for a response for someone and poor skills in coding.

* Who are the potential users of this DSL?

People that can access and use this language should also use a chat in which this language is implemented. We suppose that most of the users will be those who have a technical background. Although anyone using the service will be able to learn a few simple commands, which they find useful for them. From 60 persons that response to our formular more than 50% are interested in this kind of app. The most part of potential users are teenagers that are interested in codding and are a little bit lazy to write long messages and what to do that in a interactive way and also to practice codding in this way.