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MULTI PROGRAMMING LANGUAGE SYNTAX

FRAMEWORK: A HYBRID APPROACH

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ABSTRACT

This paper suggests an idea of a possible framework whereby a single computer programme can be written using syntaxes of different-different computerprogramming languages and thereby reduces the burden to remember syntaxes of particular programming language and learn it before writing a computer programme.

Keywords: Hybrid Programming Syntaxes, Programming Framework, Programming Languages, Programming Syntax

I. INTRODUCTION

In today's world, computers have entered in every aspect of life in terms of software or hardware running various software. As a result of such fast developments in the field of computer science and applications, a large number of programming languages were developed to cater variety of needs like: to run hardware, to develop desktop based software application, to develop web based software solutions, to develop various scientific solutions etc. To fulfil all these variety of needs a variety of programming languages are developed and a programmer has to learn them for proving different solutions. This paper would suggest a solution to such scenario of coding in different-different programminglanguages and their difficulties in syntax remembrance. [1][2][3]

1.1 Survey Done for this type of framework

There are certain languages in which there is no limitation on coding languages but coding is done using one particular programming language syntaxes only. This framework gives an idea of combining syntaxes of various programming languages, which you remember, while writing a single programme unit. [1][3]

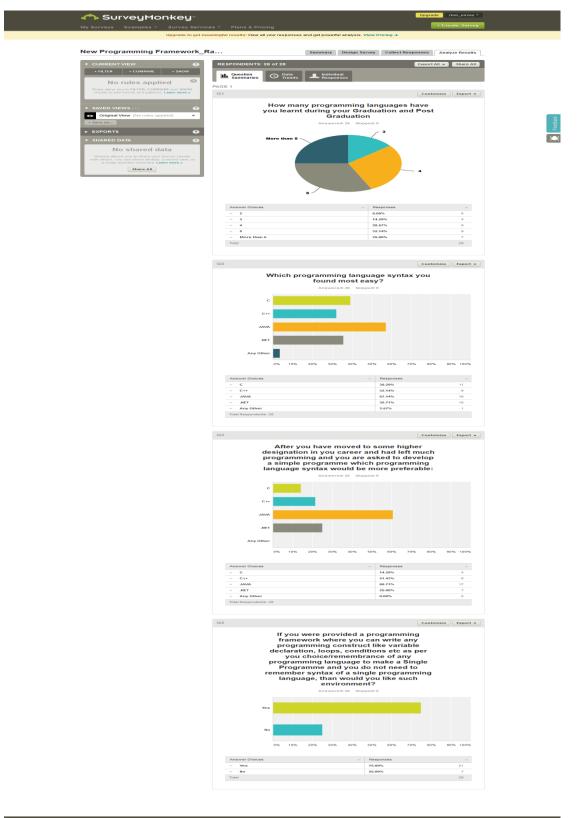
Before having an idea of such a framework, it is necessary to conduct a survey amongst faculties and students to know their view point about such a framework. Hence a survey was conducted on "survey monkey" amongst students and few of faculty members of my institute and it was found that 75% of the persons, who responded to the survey on question no 4, had appreciated this framework concept and would be willing to accept it if provided. The details of survey is mentioned below with graphs showing responses: [4]

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Fig 1: Survey Result from Survey Monkey

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1.2 Conceptual Framework Idea Design

The developer of this framework, should identify the starting tags and ending tags for various languages whereby the program developer can use these tags and write the language name in these tags and program logic, using concerned programming language between these starting and ending tags. Hence the programmer will write first the starting tag with language name and then program logic and again then the ending tags.

+++Programming Language Name+++ //Starting Tag

Programming Language Logic using its own syntax.

--- Programming Language Name--- //Ending Tag

In this way we can make one single program using hybrid syntax of variety of languages.

1.3 Problems in this approach

- This approach is good but the problem that should be ideally or tactically to be taken care off is related to
 compilation or interpretation of such in to machine language. This may take longer times and this should
 definitely be looked after as many language syntaxes are going to be used in a hybrid nature to make one
 programming unit to go.
- The installation of this framework may require more memory space.
- Portability issues may be there.

II. CONCLUSION

The frameworks idea seems really good and but good feasibility study should be done and problems related to the development should be looked after before final implementation. This may reduce the burden of infrequent programmers to remember the syntaxes of a particular programming language approach.

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