

LANGUAGE CODE DICTIONARY

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Abstract: One of the basic problem in computer science is learning new programming languages. Although there is a huge number of software's and applications which provide learning flexibility of languages but it restricts to one language at a time. The design of Language Code Dictionary is proposed for much better understanding of the programming languages and their concepts. This project will define the learning of programming languages and also it will provide the flexibility of learning from anywhere any time. The basic advantage of this project is that it will remove the barrier of carrying the books all the time and also it will provide minute concepts easily those need to be studied in depth in case of books. This project will also give the depth learning of new programming language by comparing it with the language which is known to the user. It will help the users to learn new concepts of programming language without paying a large amount of money.

Keywords: Programming Language, Concepts, Comparison.

INTRODUCTION

Language code dictionary is basically a web based application which will help the user to know the meaning and syntaxes of different functions and concepts of different programming languages. Basically dictionaries are built to know and learn the meanings of words or more precisely learn and understand the concepts which are unknown. In this project the concepts and all the

functions regarding the programming languages will be arranged in a systematic order so that they can be found quickly. The main aim of this project is to provide a completely non-technical person or a beginner an opportunity to learn programming languages effectively, efficiently and as it is web based it encourages self-learning. And if a person knows one of the programming language then also he can learn other languages from the same project. It will help in learning new programming languages having knowledge of previous programming languages.

Adapting a new language can be very easy and simple with this project and learning can be done from anywhere at any time. With this project user can basically make efficient use of free time and it will also give the flexibility of learning from own experience. Relevant knowledge helps people organize information in ways that support their abilities to remember. It will clear the concepts in depth by practicing over and over.

PROPOSED SYSTEM

Unlike classrooms where student pays attention to what teacher/lecturer is teaching theoretically which might be good for some but vastly people might not get the concept properly. The online learning might also cause some trouble as it is not necessary that each and every thing or every explanation is written by the author or the developer. This develops a flaw in the system in which the student has to Google/search each and

every doubt and then leads to tremendous wastage of time.

Our proposed system leads solution to this problem i.e. if a person has prior knowledge of other programming language and wants to adapt new language the translation or description of syntax will be shown. This will help in grasping up the syntaxes really fast. The question here arises is what if the one programming language has additional features which the other programming language might not have? We have come to solution for this, we intend to display all the necessary new features and this would help in learning quickly and effectively. It is completely web based project. We decided to make it portable and easily accessible without the use of any other software. No specific platform is required i.e. it can work on any operating system. Only the basic need of web browser is required which can be easily fulfilled.

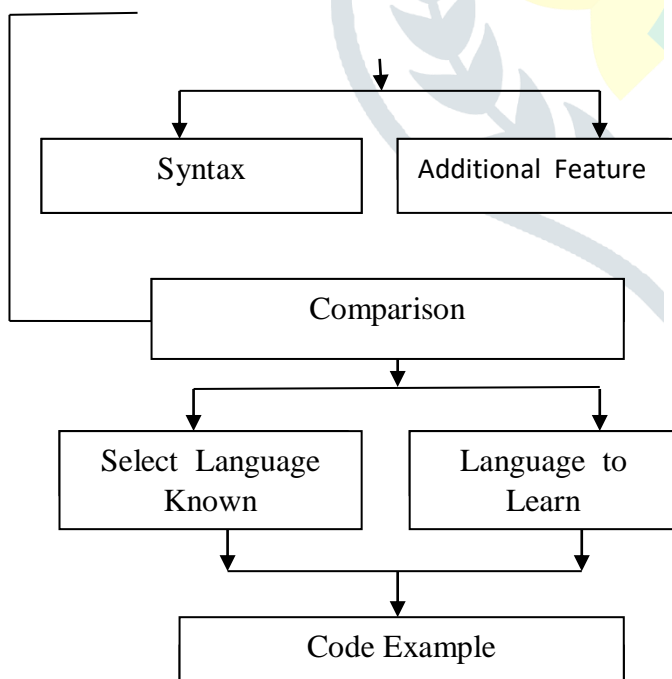


Fig 1. Show the flow of system

METHODOLOGY

If user wants to learn the concepts and features of new programming languages. In this application, user get the choices to learn multiple programming languages. After selecting programming language, it provides features and concepts with examples of that particular language. It also provides programs related to that language. If user have the knowledge of one programming language and he/she wants to learn new programming language. As we know it is difficult task to learn and remember the concepts of new language. In this application, there is a feature of comparing concepts of two languages i.e. known language and new language. It helps to learn and remember new programming language concepts easily by comparison.

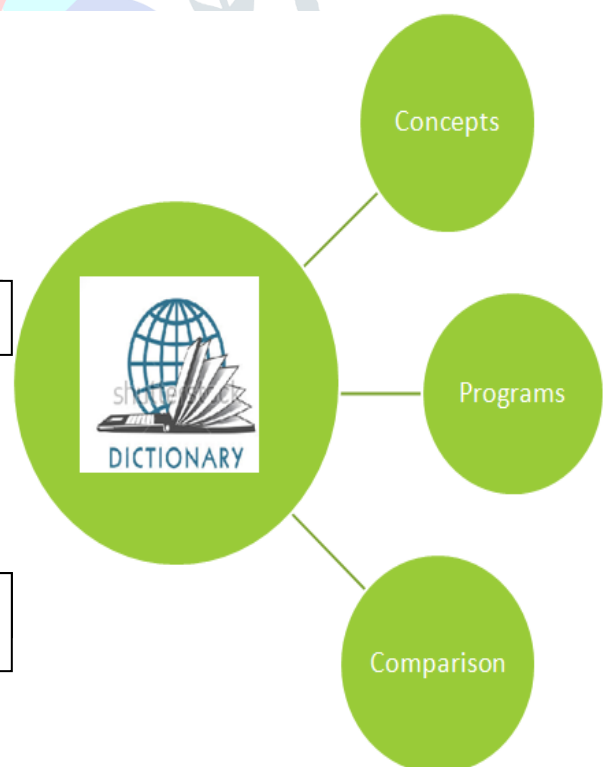


Fig.2 working of system

1. Concepts:

If the user is beginner then it is assumed that he doesn't know anything about the programming languages and also he is not aware

of basic methods and functionalities of programming languages so this block will contain all the history of the selected programming language and also basic concepts like what are keywords, variables, tokens, header files used in language what are those header files about and what is the necessity of those header files and how they are used in a particular language.

2.Programs:

When user has done some study on concepts then he must be curious of learning the programs so this block will give the basic programs regarding the particular programming language like code for addition, code for printing some sentence, code for perform different mathematical calculations, etc.

Example: Code for printing some sentence

```
#include<stdio.h>
#include<conio.h>
Void main ()
{
    Printf(“hello world”);
}
```

3.Comparison:

Now user has learned some concept and programs and he wants to learn some other language so this block will help the user to learn the language by comparing it with other language that is known to the user.

Example: To print some sentence see comparison of both the languages.

	C	C ++
Print	Printf(“statement”);	Cout<<”statement”;

Table 1.comparsion of languages

CONCLUSION

This project discusses study about the programming languages and also gives comparison based study of different languages. It analyses the performance of these different languages by checking the length of the code and different syntaxes used in each programming language. This system provides the beginner to learn new languages very efficiently. Adapting a new language can be very simple.From earlier classes itself, we were studying about the basic languages.

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