Standard Algorithms Quick Revision Using System Design

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Course Name – GEN (331)

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Introduction: -

Algorithm, as name suggests, is simply a type of process, procedure, or set of rules that must be followed to solve any type of calculations i.e. step-by-step instructions that define how work should be executed in order to get desired outcome. Design and analysis of algorithm is important to solve any type of problems in computer science and information technology. In this project I will design a system which contain most important Standard Algorithms. Using this system, we can revise the algorithms using less amount of time. Using these Application, you can Quickly revise all algorithms which are necessary for placements preparation.

Survey Question: -

Standard Algorithms For Placement

Enter you Name - *

Short-answer text

1.) Which Topic you find difficult ? *

○ Number Theory

○ Tree

○ Graph

○ Dynamic Programming

2.) Do you want one of the best solution for standard algorithms ? *

○ Yes

○ No

○ Maybe

3.) Want to revise standard algorithms for placements ? *

○ Yes

○ No

○ Maybe

Responses receive after survey: -

22 responses

Accepting responses

Summary   Question   Individual

Enter you Name -

16 responses

Harsh

Nikhilesh Kumar Verma

Gunti vinay

Shubham Saket

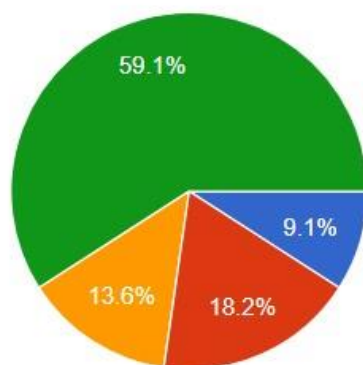Shahbaz Ahmad

Shubham Kumar Singh

Arman kumar

Bhanu Pratap Singh Bisht

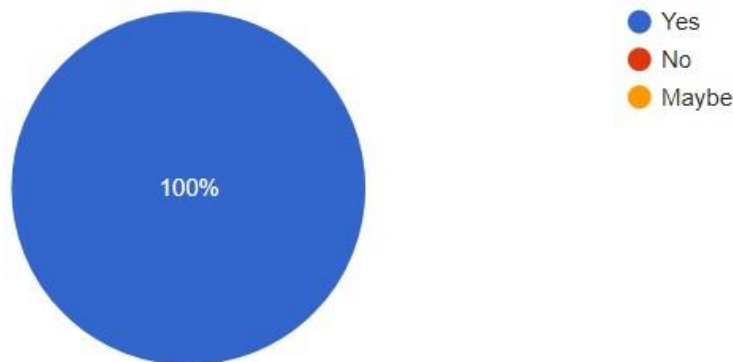Narendra kishan

1.) Which Topic you find difficult ?

22 responses

- Number Theory
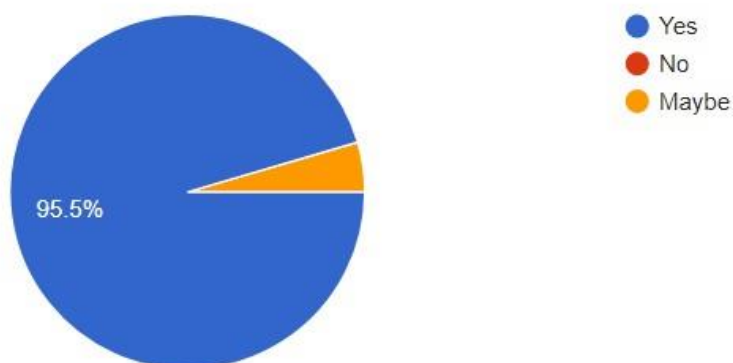- Tree
- Graph
- Dynamic Programming

59.1%
9.1%
13.6%
18.2%

2.) Do you want one of the best solution for standard algorithms ?

22 responses

- ● Yes
- ● No
- ● Maybe

100%

3.) Want to revise standard algorithms for placements ?

22 responses

- ● Yes
- ● No
- ● Maybe

95.5%

History of Inputs: -

Idea- 1

I want to design the application which, in which we give the image to the system and system tell about the image. Also give the little summary of that image. For example, if you give the image of sunflower then system tell this image belong to flower categories and name of flower and describe the little summary about that flower. To make this project I used Image Classification & Natural Language Processing. For development I used TensorFlow, NLP, Sklearn, Pandas, NumPy, Python.

Sir Review – this project looks like google lens. You add only one feature extra which is Natural Language Processing. Otherwise it same to same google lens.
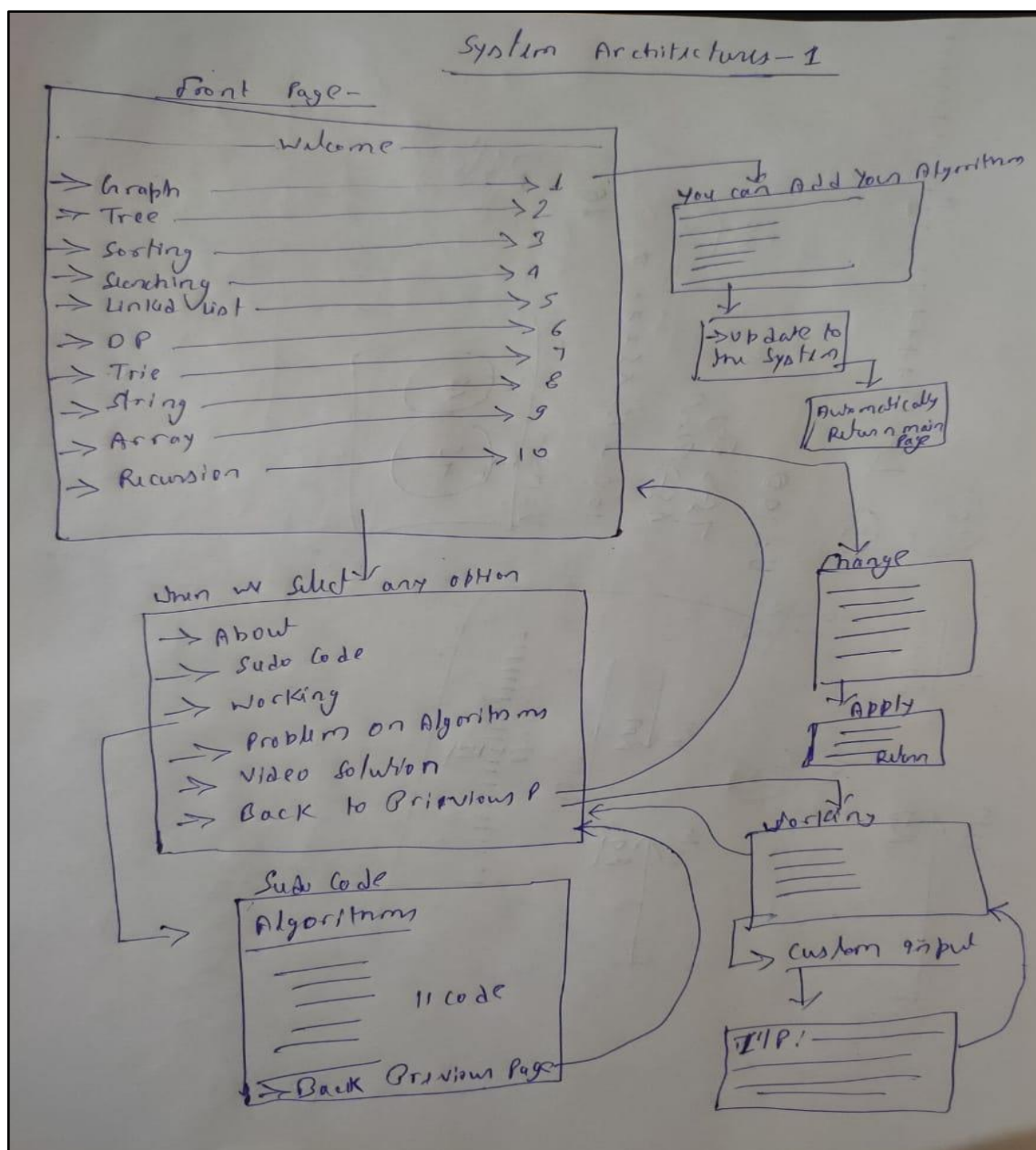
Idea- 2

I want to design the system which contain the Standard Algorithms for placement. Using this System any one can revise all algorithms for placements. This project also show how algorithms are working step by step. System contains all Important information about Algorithms. When we run the system then system asked which algorithms you want to revise. If you enter the algorithms name then they show working of algorithms and Other Information means like short description of that algorithms, Some Important Question based on that algorithms.

Sir Review – Continue this Idea.

Project Work :-

I will make this project using low level system design (Low-level design (LLD) is a component-level design process that follows a step-by-step refinement process. This process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms.) In this project I already design my first architectures.

Architectures – 1

Architectures – 2 Working

Architectures – 3 Working

Language Used- **C++**

GitHub Link - https://github.com/pkp245464/GEN-331-Project