ONLINE CONSTRUCTION PLANNING (CONTROPLAN)

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ABSTRACT

There are many existing systems related for construction planning but they are of either windows based applications or web-based projects. Some conceptual applications related to construction are also there, but they are less user-friendly and difficult to understand. And some users, builders, etc. also don't have the laptops and desktops
To work with, but mostly every people have their own android phones to interact and communicate with each other, So that we have designed this android application.
It is an android application developed to make construction planning very easy. What this application actually simplify? With the help of this application user gets direction of construction. What to do in this application ?

There will be few options provided are:
a. Documentation steps
b. Actual construction steps.
c. Cost estimation.
d. Save file.
Provide the help button for if any problem occurs during construction. For example, if during construction the slab get damage due to natural calamities like rain etc. This application will provide solution for that.

Keyword : - *Help Button , Easy To Implement*

1. INTRODUCTION

It is an android application developed to make construction planning very easy. What this application actually simplify?
With the help of this application user gets direction of construction.
What to do in this application?
There will be few options provided are:
a.   Documentation steps
b.   Actual construction steps.
c.   Cost estimation.
d.   Save file.

Documentation steps: Will provide the actual paper work require before construction
Actual construction: will provide the actual construction steps during construction.
Cost Estimation: will provide the cost for construction and quantity of materials require as per users requirement.
Help Button: will provide solution if any problem access during construction
Save file: To save the data.
Provide the help button for if any problem occurs during construction.
For example, if during construction the slab get damage deu to natural calamities like rain etc.
This application will provide solution for that.

Actually this application is designed as a guidance application which is helpful   for users as well as contractors and builders.

It provides cost estimation where the user gets the approximate cost require to construct his/her building as per their requirements with approx. quantity of materials required for construction.

In the field of cost estimation user just has to enter the:

1. Construction as per the SQFT.

2. And user will get the result.

1.1 Problem Statement

The Constroplan application having motto to calculate the total construction plan cost with various features. This application is useful for builders, contractors, users etc. for estimating construction cost. This application consist various documentation steps for paper work before starting of actual construction. By following the step the user of this of this application can complete the paper work regarding project. Followed by this application also depicts the actual construction steps along with picture and description. Once the cost is calculated user can save the file for later access as well As well help menu consist guidelines for traditional problems that may occur on the project site.

1.2 Proposed System

As we know the brief idea about the existing construction project, in previous application there is an absence of HELP button information which is not going to inform any idea that how to help in construction steps to be followed for guaranteed development so to overcome all this, this project of construction planning (constroplan) will definitely fulfill the needs of the users by providing them HELP button as well as actual construction steps button in which the information of each and every abject used to construct is available.

2. LITERATURE SURVEY

2.1 Exiting algorithm/program :

There are many existing systems related for construction planning but they are of either windows based applications or web-based projects. Some conceptual applications related to construction are also there, but they are less user-friendly and difficult to understand. And some users, builders, etc. also don't have the laptops and desktops To work with, but mostly every people have their own android phones to interact and communicate with each other, So that we have designed this android application.

2.2 Survey

- Shree Associates:

It is the first survey we started with to make the clear vision of project. Here we meet with person who wants construct a building having surface area of 1500 sqft.

With the help of our application the Engineer had a planning and communication with the customer.

First with help of cost estimation facility provided by our application and requirements of user about his construction, the contractor provides the approx. cost required for construction and also the approx.

quantity of materials. And the user takes one week to sign the contract and finally signs the contract.

- A to Z Constructions:

In this survey, we study about estimating costing for construction and various methods required or used in construction. With the help of this survey, we have studied how the cost is actually estimated. There are various methods from beginning to end required for construction planning, we have learned how much involvement of each method required in construction.

2.3 Proposed approach and its advantage over existing system:

1.   In today's world every person has the android phones. So it is the main advantage of our system.

2.   Easy to understand.

3. Easy and fast estimation of cost as per user requirements
4. Get the approx quantity of materials used in construction.
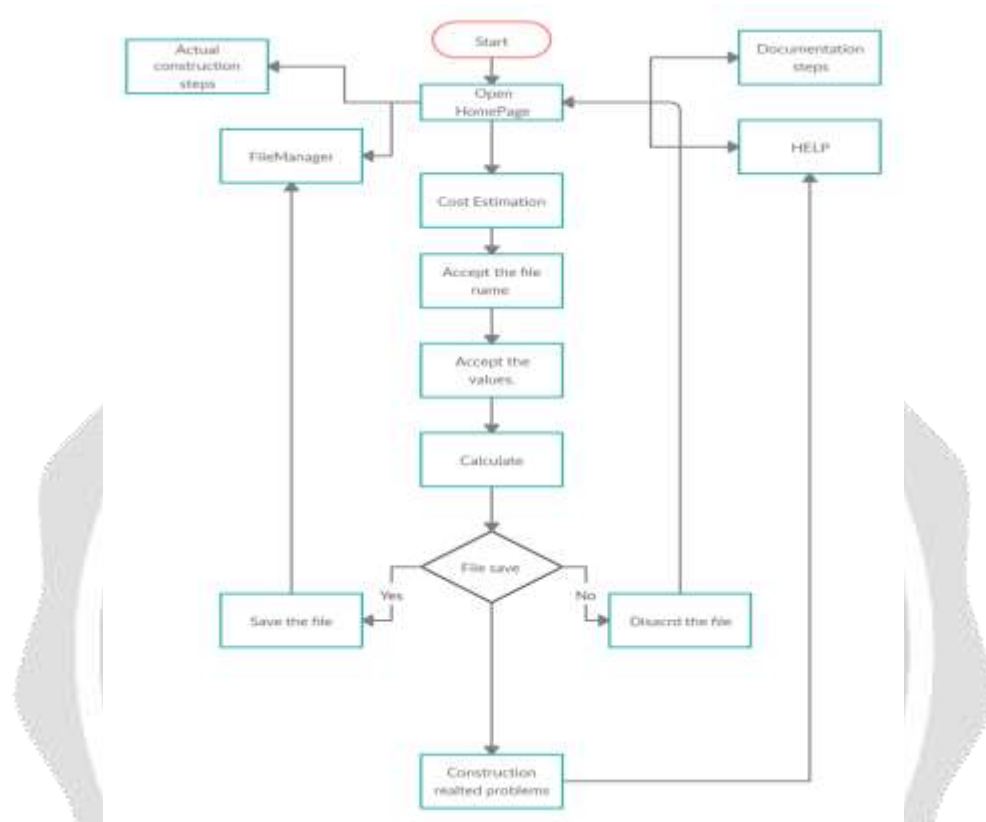
3. ACTIVITY DIAGRAM

Fig -1 : Activity diagram for overall system

An activity diagram is a type of interaction diagram. Activity diagram is same as the flow chart diagram that represents flow of one activity to the another activity. It maintains the order of processes operate with one to another. Activity diagram of proposed system is as shown in Figure

4. ARCHITECTURE AND DETAIL DESIGN

As we know the brief idea about the existing construction project, in previous application there is an absence of HELP button information which is not going to inform any idea that how to help in construction steps to be followed for guaranteed development so to overcome all this, this project of construction planning (constroplan) will definitely fulfill the needs of the users by providing them HELP button as well as actual construction steps button in which the information of each and every abject used to construct is available.

There are many construction planning applications and software which are either windows based or web-based.
There is no android based applications yet developed for construction planning. If any developed are used for different methods like for cost estimation, documentation steps, actual construction steps
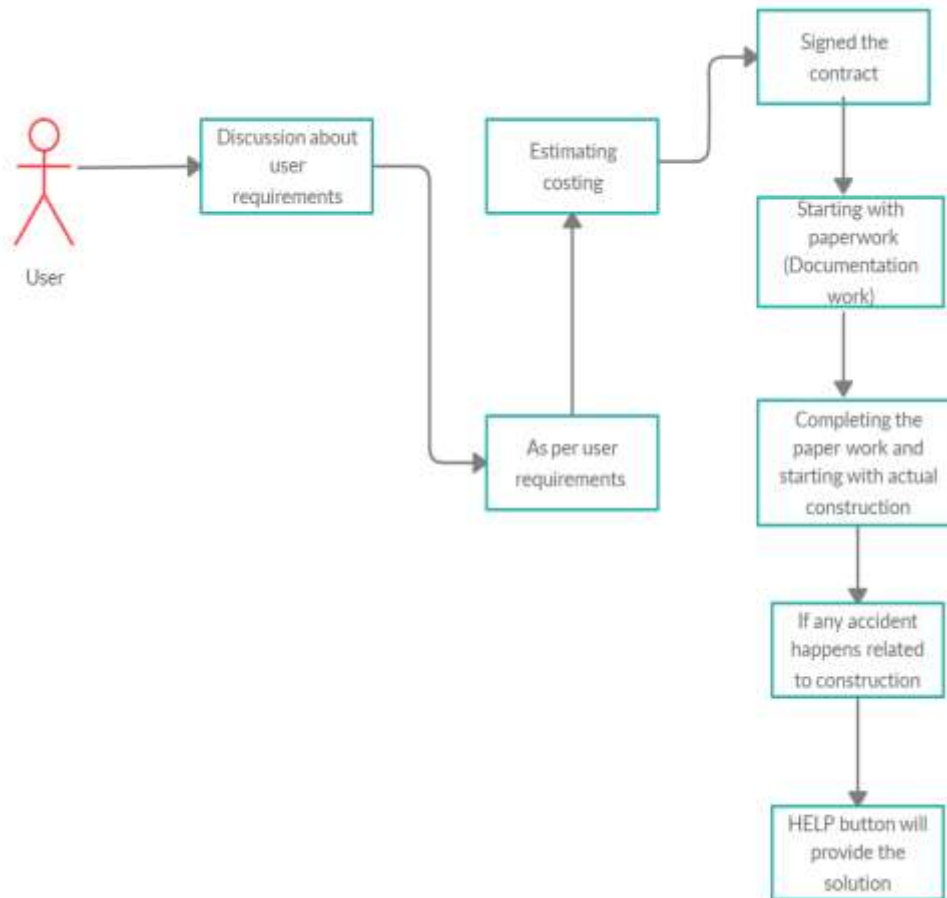
Fig -2 : Architecture diagram

5. MODULES IN THE SYSTEM

5.1 Module 1:- User Requirements.
We are going to design user interface and android application in this module user have to give his requirements for construction.

5.2 Module 2:-Front End of Application.
In this module, for estimating cost user has to enter the rate of construction per square feet (Sqft) and surface area for construction and can study about various methods required during construction and also required paper work.

5.3 Module 3:-Back End of Application.
In this module, system will calculate the total cost required for construction by providing how much percent of involvement is there of each method in construction with their cost, also the required quantity of materials used for construction.

5.4 Module 4:- Final module with concluding and ruing module.
 In this we will concluding all details and feature with dynamic updates and project building concept will elaborate with existing of different strategy for enhancing the overall report of system and incremental approach for detecting the valid node and invalid node for overall feature extraction and processing.

6. FUTURE SCOPE

In future, mostly every people will have the andoird phones with them and as the overlook on today's world, every thing is getting digital. Considering shopping to goverment works everything is getting digital. So with the help of our application guidance one can construct their buildings as they want.

7. CONCLUSION

Thus we have concluded that we have developed a system in which one can easily estimate cost for construction of buildings, etc. as per the user requirements From this application one can also study about documentation steps required before the constructions and the actual construction methods required during constructions.

8. REFERENCES

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