

# ONLINE STARTUP CONSTRUCTION HELPDESK

Ms. Nikita Yengade, Ms. Pranali Dewalkar, Prof. Hirendra Hajare  
B.E. Students, Assistant Professor  
Department of CSE, Ballarpur Institute of Technology (BIT), Ballarpur.

## ABSTRACT

There are number of construction websites but that do not provide construction services such as Architect, Labours, Carpenters, Painters with their details and experience of previous work. This website provides independent platform for user as they don't have to rely on Builder for these services. Also, website consist of online information of availability of Construction materials right from cement, bricks, etc. The benefits of this web application are to reduce the time of users, to provide details of Construction Material and Services on one platform.

**Keywords**—Services, Platform, Communication, Quality, Facilities.

## INTRODUCTION

In this paper the whole working of our project is presented. Our project is all about, the construction related and related to material supplier. When user or customer view the web application the user seen all the services and all material present in the web application. This is being launch because of need for a destination that is beneficial for all people. The people who want to see the facilities, offers and want services regarding the construction, they can access the website or web application to fulfil their requirements for product in terms of material and services. This web application is very user-friendly. In Current scenario common peoples requires to go to shop for booking and purchasing the construction materials and most of the work is done manually. The Building Material and Services web application will reduce the manual work and improve the standard of quality of services with easy analysis of sales and business. also, user has to depend on Builder for interior-exterior designing of building/home So the Building Materials And

Services webs application provides the many services. This website consists of planned procedure right from online booking, purchasing and delivery of materials. Ultimately project is to automate all the details of Construction Materials and Services.

The Building Material and Services web application provide the documentation covers detail, explanation about modules, design details and system requirement. The Building Material And Services web application is useful for users for computerizing entire system by managing data in database. Data is secured, easy to find old records and analyse old records. The aim to provide all the construction materials and services under one roof. Purpose of this web application is facilitate the user with availability of all the construction materials with their prices and grades, facility of nearby stores , availability of Interior-Exterior designers with their details. User will be able to give the rating. System is being developed in such a way that additional enhancement can be done without much difficulty. The renovation of project would increase the flexibility of system.

## LITERATURE SURVEY

The focus on the site is to save the user's time when it comes to purchase any material and wants any service. The construction industry is fragmented with many stakeholders in construction project. We got the idea about the management of construction materials. Also, the idea for planning the construction services procedure. From the base paper we got the idea for all the requirement of building and user while constructing. So, we added the materials and services as per requirement of user. Material management can be defined as an organizing function responsible for planning as well as controlling the materials flow. Most company or organization are having the same problem related to the managing the materials. Besides that, the web

application provides instruction to the user to more understand to use the web application. Furthermore, they want to make user any experience as safe and comfortable as possible. We offer a wide choice of any service and all material are well maintained in the particular and in perfect way.

Pollaphat Nitithamyong\*, Mirosław J. Skibniewski “**Web-based construction project management system: how to make them successful?**” [1]. In this paper describes research conducted on the identification of factors determining success or failure of Web based construction management systems, particularly through the use of application service provider utilized by construction firms without in-house expertise to develop such systems for company use. The construction industry is fragmented with many stakeholders in construction project. We got the idea about the management of construction materials. Also, the idea for planning the construction services procedure. This fragmentation is also seen as the major contributors to low productivity in construction. Information Technology (IT) is now routinely used in the construction industry as a tool to reduce some of problem generated by fragmentation.

Stephen Sewalk\*, J. Mark Taylor\*, Paul Chinowsky “**A Survey of Construction Management Programs: Publication, Expectations and Compensation**” [2] In this paper to –date no comprehensive study related to construction management systems. The construction is essential industry in every country for significant component of any countries. The society depends on construction industry to build good and residential house. This paper deals with the management of construction materials while constructing buildings. This approach used to manage the materials for infrastructure. Great deal to use the construction materials prominently so that its wastage should be avoided.

Wendy L. Tate\*, Lisa M. Ellram\*, Jon F. Kirchoff “**Corporate Social Responsibility Reports: A Thematic Analysis Related To Supply Chain Management**” In this paper the scale and scope of human generated activity has put the pressure on the natural systems, companies, governments and citizens have concern about being of society and environment.

Antti Ruuska\*, Tarja Hakkinen\* “**Material Efficiency of Building Construction**” [4] In this article the resource efficiency i.e. use of natural resources and materials, in order to create the construction products in natural way with the lesser resources and for good environmental impact. As the article deals with efficiency and the use of construction material. Also, flow to manage the construction materials with efficiency without its impact on environment. In this the materials are classified be used more conveniently whenever requirement is needed.

## IMPLEMENTATION DETAIL

### Use Case Diagram

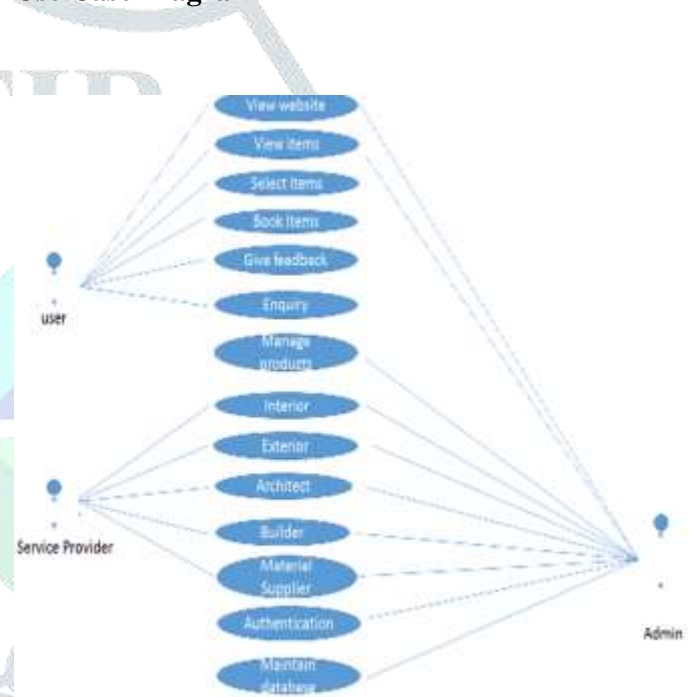


Fig 1: Use Case Diagram

### A. User/Customer

The user is nothing but the customer in the web application. The customer will register on the web application and create the user id and password for the gain further services. The customer can directly use the services with the help of id and password.

### B. Service Provider

Service provider is the service module in web application. The Building Material and Services web application provide a facility to use the various services for the construction. In the service provider module provide the various services and provide the material related to the

construction. In this module the various sub modules are present; these are helping in any type of the construction. The labour is the module in this service provider module. The labours are register by the amin in this web application. The interior and exterior are the main sub modules in the service provider module. In the interior and exterior sub modules, the useful services are present in this sub modules. In the service provider module, the material dealer is one of the sub modules, in this module the complete materials are present related to the constructions. Also, web application consists of online availability of Construction materials right from cement, bricks, coarse aggregate etc. The architect is a sub module in the service provider module. The various architecture are present in this module. Website consist of Online purchasing of Construction material required for House, Buildings etc Website will provide construction services right from interior and exterior designer.

### C. Material Supplier

The module consists of materials such as Cement, sand, coarse aggregate which are required for construction of buildings. User will able to access over the website book the required materials. There are verities of materials available on the website.

### D. Admin

The admin module is using the authentication and authorization of the database in this web application. The admin module should be adding the services completely related to the construction. This module adds the labours in this web application. The registrations for the labour are done by the help of the admin module. The updating and the deletion of the data in the database, this process is done by the admin only. The admin maintains the whole web application and update the web application.

materials becomes available on site when required. This web application is very user-friendly.

## REFERENCES

- [1] Pollaphat Nitithamyong\*, Mirosław J. Skibniewski\* (2004) "Web-based construction project management system: how to make them successful?"2004, Feb 27
- [2] Stephen Sewalk\*, J.Mark Taylor\*, Paul Chinowsky\*(2015) "A Survey of Construction Management Programs: Publication, Expectations and Compensation"
- [3] Wendy L. Tate\*, Lisa M. Ellram\*, Jon F.Kirchoff\*(1998) "Corporate Social Responsibility Reports: A Thematic Analysis Related To Supply Chain Management"
- [4] Antti Ruuska\*,Tarja Hakkinen\* (2014) "Material Efficiency of Building Construction"2014,June 16
- [5] Chris I. Goodier\*, Raman Mangabhai\*, Mark Tyrer\*, Edwin Trout\*(2014) "The Future of Construction Materials Research" 2014,July 08
- [6] Rakesh nayak\*, Mukesh pandey\*(2016) "Management of Construction Materials on Project Site" 2016, Dec 12.
- [7] Jose Ignacio Ortiz-Gonzalez\*, Eugenio Pellicer\*, Gregory Howell\*(2014) "Contingency Management in Construction Projects: A Survey Of Spanish Contractors" 2014.

## CONCLUSION

The building material and services web application is essential for every user, who is using this web application. This web application facilitates the user to search the products category wise. Required