

# Online Construction Consultancy System

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## ABSTRACT

The construction industry generally deals with the varied sorts of construction sectors viz Real Estate & Infrastructure. land Sector is segmented in Residential, Industrial, Corporate, and Commercial. Whereas Infrastructure sector in Roads, Railways, Urban Infrastructures, Ports, Airports and Power. To manage such quite unique projects requires an expertise with organizations and a radical body of data. the aim of this paper is to supply the analysis or breakdown of Role of Project Management Consultancy and study the issues faced by PMC for implementing the project. Project Management Consultancy plays multifaceted part in such projects and provides the services from inception to completion of projects. At every stage of project life cycle, the principles of pro-activeness and creating the win-win situation is important keeping in mind the customer / client's requirements. Use of Project Management Consultancy (PMC) offers one among the effective management solution to extend and improve the efficiency and outcome of a project in construction. A case study of construction of a Mega Industrial Project which is dealt by PMC and Project contains various sort of buildings for Manufacturing unit, Assembling unit, Logistic unit, Process unit with allied Infra of Electrical utilities, Services like Fire fighting, Sewage line, Storm water arrangement and Road etc are considered for this research work.

**Keyword:** - Project Management Consultancy, Industry.

## 1. INTRODUCTION

The complete process of evolution, planning, design, construction and installation of an offshore project is one among the foremost complex and demanding engineering tasks of recent times, utilizing the combined skills of a wide range of engineering disciplines. With the growth of the offshore industry the consulting engineer has found himself increasingly involved in all aspects of offshore engineering, from the preparation of the initial feasibility studies to the supply of assistance within the operation of the finished facilities. The consulting engineer's primary role is to provide advice, based upon his knowledge of current and developing technology and the best available industrial practices, using an objective, unbiased approach. The expression of this advice frequently takes the form of a feasibility study for a complete new oilfield development scheme or for individual sections of the proposed production facility or offshore platform. When the project proceeds, the role of the consulting engineer may include preparation of the conceptual design, specification writing and detailed engineering design, tender preparation, evaluation and advice on selection of the contractor. The consultant can also be called upon to supply project management services, monitoring progress and costs and verifying performance against specification, during the detailed engineering and construction stages of the project, and to supply advice and assistance during commissioning.

## 1.1 LITERATURE SURVEY

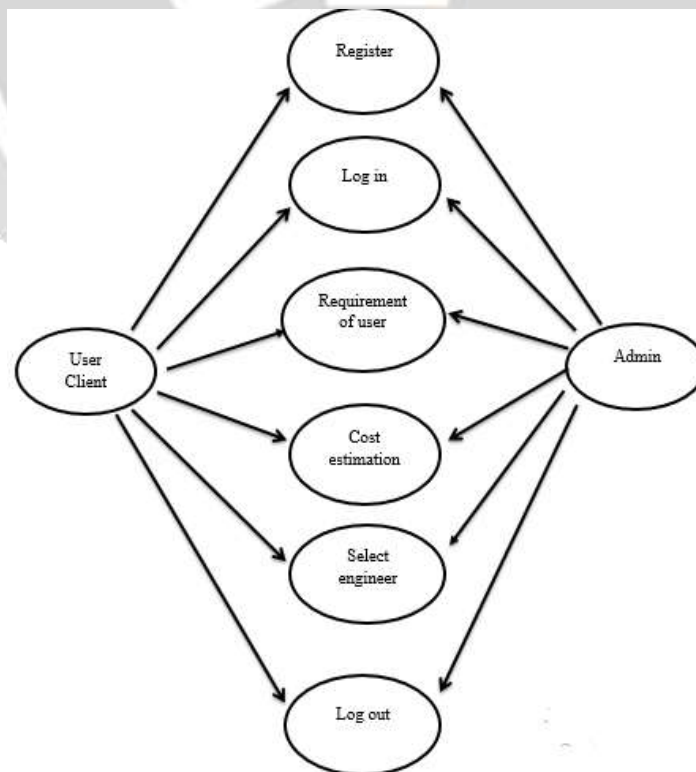
Oster alder and Y. Pigneur ( Oster alder, et al., 2002, 2004, 2005, 2010, 2011, Wu et al., 2015), in their book “Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers, Hoboken, New Jersey: John Wiley & Sons, Inc.”[1], a business model can be described by nine building blocks which further wraps the four main segments of business: customers, offer, infrastructure and financial viability (Timers et al., 1998, Clark et al., 2012, Xu et al., 2018, Wirtz et al., 2010). To understand how the rise of platforms is transforming competition, we need to examine how platforms differ from the conventional “pipeline” businesses that have dominated industry for decades. Pipeline businesses create value by controlling a linear series of activities—the classic value-chain model (Luby et al., 2006). Inputs at one end of the chain (say, materials from suppliers) undergo a series of steps that transform them into an output that is worth more: the finished product.

Author Teece gave this framework in his journal article “Business models, business strategy and innovation” (Teece et al., 2010) [2]. This framework focuses of important components of a business model in a cyclic manner (Tian et al., 2011). It is rather a step-by-step guide to develop a business model, starting from selection and identification of value preposition then to determine the customers who will get benefit from and segmenting the market accordingly which has to be targeted (Tidd et al., 2018).

## 1.2 PROBLEM STATEMENT

To manage various kind of unique projects requires an expertise with organizations and a thorough body of knowledge Consultancy plays multifaceted part in such projects and provides the services from inception to completion of projects.

## 2. Proposed Detailed Methodology of Solving the Identified Problem with Action Plan



## 2.1 Module Description:

### User/Client Module:

This module deals with the user interface / experience. This module provides user with flexibility of registering, logging in. If the user is new to application then user must register by providing user's details. After registration user logs in using the user-id & password. Once the user logs in, then user can find suitable engineer as per their requirement & budget for their construction.

### Admin / Engineer Module:

Admin: The main purpose for developing this module is to create own profile. Because of engineer's profile client can interact with their respective engineer as per their requirement.

#### Register Page:

Name	:-	<input type="text"/>
Reg. ID	:-	<input type="text"/>
Mobile no	:-	<input type="text"/>
E-mail	:-	<input type="text"/>
Gender	:-	<input type="text"/>

#### Log in Page:

Login ID	:-	<input type="text"/>
Password	:-	<input type="password"/>
		<input type="button" value="Submit"/> <input type="button" value="Cancel"/>

#### Budget Details Page

Amount	<input type="text"/>
Requirements	<input type="text"/>
Budget under project	<input type="text"/>

### 3. CONCLUSIONS

Project Management Consultants manage the Project by application of their Knowledge, Skills, and Experience at various stages. However PMC has got to face various challenges like Design Issues, Constructability Issues, Long lead material Issues, Inter Contractor Coordination Issues, Engineering Issues, Safety Issues, etc These issues might be tackled by a well-organized approach of the PMC. This also includes adopting the varied sorts of tools of upper management like Reporting dashboard, Round table progress Review and conduction of brainstorming sessions, training on various field, design – construction interface, Daily quality audits, quality diligence & delivery sessions in team. In addition to above Project Management Consultancy is effective and efficient only it's involved in Total Project Life Cycle from Conception to Closeout. Awareness of varied Processes involved in Project Management and detail study of multiple constraints of project like Time-Cost-Risk-Scope-Quality-Resource are an integral a part of any project management consultancy.

### 4. REFERENCES

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