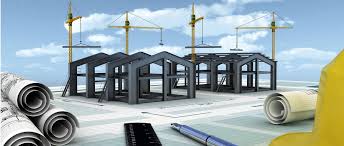
KARIM CITY COLLEGE

Jamshedpur

PROJECT ON :-

**CONSTRUCTION MANAGEMENT SYSTEM**

[](https://www.google.co.in/imgres?imgurl=http://www.vision360.co/wp-content/uploads/2014/09/Services_-_Construction_Management.jpg&imgrefurl=http://www.vision360.co/construction-management/&docid=lAdvUWKfFHaMvM&tbnid=w6hqjGbH87E9UM:&vet=1&w=1170&h=498&bih=677&biw=1024&q=construction%20management&ved=0ahUKEwjy9fbG7svRAhWFqo8KHeOGA54QMwg7KAswCw&iact=mrc&uact=8)

A PROJECT IS CREATED UNDER GUIDANCE BY :- Noorus Sabah

SUBMITTED BY :-

**NAME** :- BHAGYA LAXMI NANDA & SRESTHA CHOWDHURY

**CLASS :-** BSC-CA(III)

**ROLL NO** :-46 & 47

**U.ROLL** : 151605959854 & 151605959847

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INTRODUCTION

Construction Management is the process of managing project through free-based services in which the construction manager is responsible exclusively to the owner and acts in the owner’s interests at every stage of the project. The construction management offers advice, uncolored by any conflicting interest on such crucial matters. Construction project management is a professional service that uses specialized, project management techniques to oversee the planning, design, and construction of a project, from its beginning to its end. The purpose of construction management is to control a project time, cost and quality. Construction management is compatible with all project delivery systems, including design-bid-build, design-build, CM at risk and public private partnerships. Every construction project features some amount of Construction Management. However, professional construction managers, or construction managements, are typically reserved for lengthy, large-scale, high budget undertakings (commercial real estate, transportation infrastructure, industrial facilities, military infrastructure, etc.) called capital projects. No matter the selling, a constructions management responsibility is to the owner, and to a successful project.

**[](https://www.google.co.in/search?rlz=1C1AOHY_enIN712IN712&espv=2&biw=1024&bih=677&tbm=isch&q=construction+project+management&sa=X&ved=0ahUKEwjy9fbG7svRAhWFqo8KHeOGA54QhyYIGg)**

**Purpose:** the purpose if the project is to develop user friendly interface and which will reduce the paper work, faster and easy work and save the time

OBJECTIVES OF THE PROJECT

1. Planning of each activity: the construction project planning should identify and include every activity of the project in a sequential order. Every activity should be scheduled in a timeline for tracking of construction project.
2. Construction methods: plans should include construction methods to be adopted for different construction activities and tools and planning for tools and tackles for each activity.
3. Planning for construction equipments and machinery: cost of a construction equipments and heavy machinery as their renting cost could be very high per day.
4. Procurement of material: project planning should also include procurement planning for material unused for site for long time.
5. Planning for employee skills: some of construction activities require availability of skilled person to execute that work.
6. Planning for required documents and drawings: construction projects are executed based on the drawings and specifications.
7. Financial planning: financial planning is the most important aspects. Different amounts are required at different stages of construction project.

LIMITATIONS OF THE PROJECT

* It is very difficult and time consuming to maintain all the details in to the registers when the organization is very big.
* Modifying the records is not very easy, since for a minute change the whole record would be required to re-enter. For instance, if the address of any customer changes then locating that customer and doing modification in registers is very tedious.

[](https://www.google.co.in/search?rlz=1C1AOHY_enIN712IN712&espv=2&biw=1024&bih=677&tbm=isch&q=construction+project+management&sa=X&ved=0ahUKEwjy9fbG7svRAhWFqo8KHeOGA54QhyYIGg)

* It also takes much time for doing entry and checking of records.
* There is also possibility of mismatching of entries during entry of records.
* To make and maintain the different reports is also very tough and tedious job.
* Information is stored into registers, which requires large storage space.

ADVANTAGES OF THE PROPOSED SYSTEM

**1.** In comparison to the present system the proposed system will be less time consuming and is more efficient.

2.Analysis will be very easy in proposed system as it is automated result will be very precise and accurate and will be declared in very short span of time because calculation and evaluations are done by the simulator itself.

[](https://www.google.co.in/search?rlz=1C1AOHY_enIN712IN712&espv=2&biw=1024&bih=677&tbm=isch&q=construction+management+banner&sa=X&ved=0ahUKEwjy9fbG7svRAhWFqo8KHeOGA54QhyYIIw)

3. The proposed system is very secure as no chances of leakages of question paper as it is dependent on the administrator only.

4. The logs of appeared candidates and their marks are stored and can be backup for future use.

Functions

The functions of construction management typically include the following:

1) Specifying project objectives and plans including delineation of scope, budgeting, scheduling, setting performance requirements and selecting project participants.

2) Maximizing the resource efficiency through procurement of labor, materials and equipment.

3) Implementing various operations through proper coordination and control of planning, design, estimating, contracting and construction in the entire process.

4) Developing effective communications and mechanisms for resolving conflicts.

5) Construction management professional practice includes specific activities, such as defining the responsibilities and management structure of the project management team, organizing and leading by implementing project controls, defining roles and responsibilities, developing and identifying elements of project design and construction likely to give rise to disputes and claims.

TYPES OF CONSTRUCTION

*1*) Agricultural: Typically economical buildings, and other improvements, for agricultural purposes.

Examples in clued barns, equipment and animals sheds, specialized fencing, storage silos and elevators, and water supply and drains such as wells, tanks, and ditches

2) Residential: Residential construction includes houses, apartments, townhouses, and other smaller, low-rise housing, small office types.

*3)* Commercial: This refers to construction for the need of private commerce, Trade, and services.

Examples include office buildings, “big box” stores, shopping centers and malls, warehouse, banks, theaters, casinos, resorts, golf course, and large residential structures such as high-risk hotels and cadmiums.

4) Institutional: This category is for the government and other public organizations.

Example includes schools, fire and police stations, libraries, museums, dormitories, research buildings, hospitals, transportation terminals, some military facilities, and governmental buildings.

5)Industrial: buildings and other constructed items used for storage and product production, including chemical and power plants, steel mills, oil refineries and platforms, manufacturing plants, pipelines and seaports.

6) Heavy Civil: The construction transportation infrastructure such as roads, bridges, railroads, tunnels, airports, and fortified military facility. Dams are also included but most other water related infrastructure is considered environmental.

7) Environmental: environmental construction was part of heavy civil, but is now separate, dealing with projects that improve the environment. Some examples are water and waste water treatment plants, sanitary and storm sewers, solid waste management, and air pollution control.

MODULE OR FORM DESCRIPTIONS

* Module 1: module

1. Module name : main module

* Module2: masters

This module updates master file and its main purpose to store the related and required information about land, flat customer, etc.

a) Land master

b) Flat master

c) Raw master

d) Customer master

* Module 3:transactions

This module is performs the transactions and its main purpose is to do the modifications.

a) Construction transaction

b) Booking transaction

c) Agreement transaction

d) Payment transaction

e) Cancellation transactions

* Module 4:reports
* This module generates all the reports.

a)monthly report

* Agreement report
* Cancellation report

b) Annual report:

* Land purchase report
* Booking and agreement report and Cancellation report

NORMALIZED DATABASE

* LOGIN\_TBL:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Field** | **Type** | **Size** |
| 1. | User | Varchar2 | 20 |
| 2. | Password | Varchar2 | 20 |

* BOOK\_TBL:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Field** | **Type** | **Size** |
| 1. | TrnsID | Number | 20 |
| 2. | Bookdt | Number | 20 |
| 3. | Flat no | Number | 20 |
| 4. | CustID | Number | 20 |
| 5. | Custname | Varchar2 | 20 |
| 6. | custcontact | Number | 20 |
| 7. | FinanceFrom | Varchar2 | 20 |
| 8. | Bamount | Number | 20 |
| 9. | Booktype | Varchar2 | 20 |

* CUST\_TBL:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Field** | **Type** | **Size** |
| 1. | Custid | Number | 20 |
| 2. | Custname | Varchar2 | 20 |
| 3. | Custaddress | Varchar2 | 20 |
| 4. | Gender | Varchar2 | 20 |
| 5. | DOB | Number | 20 |
| 6. | Aadhar | Number | 20 |
| 7. | Bankname | Varchar2 | 20 |
| 8. | Bankacno | Number | 20 |

* DUPLEX\_TBL:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Field** | **Type** | **Size** |
| 1. | Duplexno | Number | 20 |
| 2. | Duplexname | Varchar2 | 20 |
| 3. | Address | Varchar2 | 20 |
| 4. | Builtup | Varchar2 | 20 |
| 5. | Superbuilt | Varchar2 | 20 |
| 6. | Carpetarea | Varchar2 | 20 |
| 7. | Facility | Varchar2 | 20 |
| 8. | Projectname | Varchar2 | 20 |

* FLAT\_TBL

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Field** | **Type** | **Size** |
| 1. | Flat no | Number | 20 |
| 2. | Build name | Varchar2 | 20 |
| 3. | Address | Varchar2 | 20 |
| 4. | Builtuparea | Varchar2 | 20 |
| 5. | Superbuiltup | Varchar2 | 20 |
| 6. | Carpetarea | Varchar2 | 20 |
| 7. | Floor | Number | 20 |
| 8. | Projectname | Varchar2 | 20 |

* ALLOCATE\_TBL:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Field** | **Type** | **Size** |
| 1. | DOA | Number | 20 |
| 2. | Site | Varchar2 | 20 |
| 3. | RawId | Number | 20 |
| 4. | Qty | Number | 20 |

* LAND\_TBL:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Field** | **Type** | **Size** |
| 1. | LandId | Number | 20 |
| 2. | OwnerId | Number | 20 |
| 3. | Owner name | Varchar2 | 20 |
| 4. | Owner address | Varchar2 | 20 |
| 5. | Aadhar | Number | 20 |
| 6. | Contact | Number | 20 |
| 7. | Land location | Varchar2 | 20 |
| 8. | Regunder | Number | 20 |
| 9. | Regno | Number | 20 |
| 10. | Measurement | Number | 20 |
| 11. | Waterelectricity | Number | 20 |

* STAFF\_TBL

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No** | **Field** | **Type** | **Size** |
| 1. | StaffId | Number | 20 |
| 2. | Name | Varchar2 | 20 |
| 3. | Age | Number | 20 |
| 4. | Address | Varchar2 | 20 |
| 5. | City | Varchar2 | 20 |
| 6. | Gender | Varchar2 | 20 |
| 7. | Contact No | Number | 20 |

HARDWARE AND SOFTWARE REQUIREMWNT

**HARDWARE SPECIFICATION**

Processor : Intel i3 or above

Ram : 4GB

Disk Space : 500gb or above

Monitor:15’’ LED

**SOFTWARE SPECIFICATION**

Front-end : JAVA

Back-end : Oracle

Operating system: windows7 or above

FEASIBILITY STUDY

Feasibility study is undertaken to determine the possibility of either improving the existing system or developing a completely used system. This study helps to obtain an overview of the problem and to get rough assessment of whether feasible solution exists.

There are three aspects of feasibility study:-

1. ECONOMIC FEASIBILITY: Economic analysis is the most frequently used for evaluation of the effectiveness of the system. More commonly known as cost/benefit and saving that are expected from a system and compare them with costs, decisions is made to design and implement the system.

2. TECHNICAL FEASIBILITY: technical feasibility centers on the existing manuals system of test management process and to what extent it can support the system.

3. OPERATIONAL FEASIBILITY: People are inherently resistant to change and computer has been known to facilitate changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system.

FEATURES

1**.** Customer relationship management: CRM features in contractors to software allow contractors to enter their clients contact information documents related to a particular client.

2.Accounting and Financials: Accounting features are indispensable, especially if you’re talking care of accounting all by yourself.

[](https://www.google.co.in/imgres?imgurl=http://www.chorius.com/wp-content/uploads/2016/05/ConstructionManagement.jpg&imgrefurl=http://www.chorius.com/specialisation/construction-management/&docid=fbzgxISW8ALo7M&tbnid=VY95EfAqgQxcuM:&vet=1&w=631&h=354&bih=677&biw=1024&q=construction%20management&ved=0ahUKEwjy9fbG7svRAhWFqo8KHeOGA54QMwg5KAkwCQ&iact=mrc&uact=8)

3.Scheduling: As simple as scheduling features may be, they remain very helpful for contractors who need to organize their days most efficiently and keep track of their team’s activities.

4. Team Management: Team Management features overlap with scheduling options.

5. Project Management and document management: some contractors prefer a separate project management functionality, allowing them to adopt a bird’s eye view of their projects.

6. Material Management and Equipment tracking**:**  Material management tracking features often come hand-in-hand with tool and equipment tracking options.

7. Surety bonding**:** Without being licensed and bonded, no contractor can perform work legally.

DATA FLOW DIAGRAM

LAND

STAFF

CUSTOMER

FLAT

DUPLEX

0 – level DFD

ENTITY RELATIONSHIP DIAGRAM

GANTT CHART

FUTURE SCOPE

The aim of the project is to build a simple, computerized and construction management, it starts from the process of collecting relevant details and requirements from the companies. The scope of this application deals with the administrator of the software. The administrator here is the advocate who deals with the handling of addition, detection and updating the details .this Daily Board software is limited to advocates who are the administrator of the software, who manages all the working and allows the client to enroll and handle the data of the clients in their respective registered cases and its details.

[](https://www.google.co.in/imgres?imgurl=http://www.kramerausenco.com/scripts/image.php?src=http://www.kramerausenco.com/content/Image/Construction-Management2.jpg&w=950&h=330&imgrefurl=http://www.kramerausenco.com/page/services/construction-management/&docid=n9x_bNPRfKBOwM&tbnid=eC6WqBxTdVyGiM:&vet=1&w=950&h=330&bih=677&biw=1024&q=construction%20management&ved=0ahUKEwjy9fbG7svRAhWFqo8KHeOGA54QMwhSKBcwFw&iact=mrc&uact=8)