

# Software Requirement Specification (SRS)

## for Construction Company Management System

### **An Overview Of the System**

Construction company management system (CCMS) models the needs of the construction company efficiently. This system provides a smooth experience to its users with a user-friendly GUI. CCMS aims to help all its users with an ease of communication and keep its users informed about all the work from time to time.

#### **Client (CCMS) requirements:**

The company constructs houses/offices for its customers. A customer can have multiple sites and he may wish to build multiple projects on different sites. Before starting a project the supervisor verifies the customer's site and approves the project. The company is divided into groups and each of these groups manage a particular type of project (commercial, residential). These project groups are headed by the manager who tracks the builder performance, project status and also allocates the projects to builders. The supervisor supervises the builders and their project progress. He also plays a major role in allocating the raw materials and subcontracts to the projects as and when required.

The raw materials required for the projects are supplied by the retailers. The supervisor identifies the requirements (raw materials) for a project and proposes his statement accordingly, the accepting authority places the order with the retailer who has a good rating and whose materials are cost effective. The accepting authority also takes care of the subcontracts required by the project.

The builder updates his progress daily, this work is supervised by both the manager and supervisor. The manager and the supervisor keeps the customer informed about the progress of his project.

### **Functional Requirements of the System**

This section contains a High level Description of the Use Cases.

<b><u>Serial No</u></b>	<b><u>Use case</u></b>	<b><u>Primary Actors</u></b>	<b><u>Description</u></b>
1	Customer Login	Customer	Login to his account. If the credentials of the customer turn out to be incorrect then an error message is displayed in return otherwise he successfully logs in to his account.
2	Track Project Status	Customer	It shows the customer about how far his projects have reached. That is the status of his projects.
3	Enter Site Information	Customer	The customer can enter the details of the new site which he wants to give it to the company for construction. Now these details are verified by the supervisor and if they are not authentic then it will lead to contract cancellation.
4	Customer	New Customer	Since a new customer will not have an

	Registration		account he need to create one.
5	Retailer Login	Retailer	Login to his account. If the credentials of the retailer turn out to be incorrect then an error message is displayed in return otherwise he successfully logs inn to his account.
6	Enter new material details	Retailer	If a retailer has new set of materials which can be used in construction then he can enter it and these details will be added to database.
7	Order Reminder	Retailer	A Retalier will be informed if he is assigned to an order and he can ship that order to the respective site.
8	Retailer Registration	New Retailer	Since a new Retailer will not have an account he need to create one.
9	Manager Login	Manager	Login to his account. If the credentials of the Manager turn out to be incorrect then an error message is displayed in return otherwise he successfully logs inn to his account.
10	Project Allotment	Manager	Manager has the authority to assign the project type and all other details about the project once the site verification is completed succesfully.
11	Builder Project Allotment	Manager	Manager has an authority to assign a particular project to a builder.
12	Track Builder Performance	Manager	Manager tracks the performance and efficiency of the builder and if he performs well then manager can give him a salary boost.
13	Supervisor Login	Supervisor	Login to his account. If the credentials of the Supervisor turn out to be incorrect then an error message is displayed in return otherwise he successfully logs inn to his account.
14	Allocating Raw materials	Supervisor	A supervisor decides what all raw materials are needed for construction of a particular project and depending on that he will create a list containing all raw materials.
15	Allocating Sub Contracts	Supervisor	A supervisor also decides what all requirements should be procured as sub contracts like any machinery, equipment etc.
16	Builder Login	Builder	Login to his account. If the credentials of the Builder turn out to be incorrect then an error message is displayed in return

			otherwise he successfully logs inn to his account.
17	Update Project Status	Builder	A builder daily updates what all tasks he has achieved in that day related to a particular project.

<u>Serial No</u>	<u>Use case</u>	<u>Secondry Actors</u>	<u>Description</u>
1	Verify Site Info	Supervisor	A supervisor verifys the site information and updates his response in the system.
2	Order Approval	Accepting Authority	An Accepting Authority places the order of raw materials to a particular retialer depending on the retialer rating, price etc. And finally approves it.
3	Sub Contract Approval	Accepting Authority	An Accepting Authority selects a sub contractor based on the requirements.
4	Modify Builder Details	Admin	An admin has the job of keeping the database concistent and up to date so he has the authority to remove those builders who left the company.
5	Modify Retailer Details	Admin	He also has to authority to remove all the retailers who stopped supplying raw materials to the company.