Construction Workflow Automation System

The system 'Construction Workflow Automation System' is a web application developed with an aim to automate the manual procedures carried out in the field of construction. Using the application, every process that starts from searching and finding a consultancy can be automated. A client who wishes to construct a building can register with the application and search for a proper consultancy based on their requirements. The consultancies registered in the system can make quotations. Once a project is got, the consultancies can search or invite contractors to handle different fields of their project. The contractors registered in the system can make quotations for the proposal. Those who win the proposal can use the system to search for sub-contractors. Further the sub-contractors can find suppliers and so on.

Admin
This module provides administrator related functionality. Admin manages all information and has access rights to verify, update, delete and view the data related to consultancies, contractors, sub-contractors, suppliers, employees and users etc. The admin should able to communicate with others(the customers of the site) through the system , and also should able to verify user details.

Consultancies
Consultancies may also offer design and engineering services, which can include architectural design, structural engineering, and mechanical, electrical and plumbing design. These services can help ensure that the project is designed to meet the client's requirements, comply with regulations and function efficiently.

Contractors
Contractors can provide construction services, which involve overseeing the construction process itself, such as coordinating with sub-contractors, employees and suppliers. This can help ensure that the project is completed to a high standard and that any issues are addressed promptly.

Sub-contractors
Subcontractors typically work with the general contractor to plan their portion of the project. This can involve reviewing plans and specifications, coordinating with other subcontractors and developing a scheduling. Subcontractors are responsible for completing their portion of the construction work. They are responsible for ensuring that their work needs the required quality standards. They can search, add and invite the employees and also set access control limit for each documents.

Users

User can register with the system and use the system to find an appropriate consultancy to assign the task. Once a client added a new project proposal to the system, various consultancies registered in the system can bid for this project through the system. Using the application, the consultancies can invite contractors, contractors invite subcontractors and sub-contractors invite suppliers.

Suppliers

The supplier will them source the necessary materials and equipment from the manufactures of distributors. They may also have their own inventory products that can be used for the products/materials. The supplier will arrange for the transportation of the materials and equipment's to the construction site. They will also coordinate with the construction team to ensure the materials delivered to the right time and to the right location