

## Requirement Gathering

### Project: Constructa

**Date:** 09-12-2025

Constructa is a web-based platform designed to help prospective homeowners plan, design, and manage the early stages of house construction.

### Main Objectives

- To provide users with **smart house design suggestions** based on their requirements.
- To connect users with **engineers, architects, and contractors**.

The system is intended as a **prototype**.

- It includes major features like:
  - Requirement input form
  - Plan suggestion
  - Material recommendation
  - Budget calculator
  - Engineer directory

Target owners are

- **Prospective homeowners** planning to build a new house.
- **Civil engineers, architects, and construction consultants**.

### 1. Requirement Input Module

- User enters number of rooms, floors, style preference, location, plot size, etc.

## **2. Plan Suggestion Module**

- System plan ideas based on requirements.

## **3. Budget Estimation Module**

- Calculates approximate house construction cost.
- Suggests best material options based on budget.

## **4. Engineer & Contractor Directory Module**

- Lists engineers with contact details, experience, and availability.

## **5. Component Shopping Module**

- Provides links or shops for buying materials (cement, bricks, tiles, etc.)

## **6. User Account Module**

- For login/signup for **Admin, User, Engineer**.

## **7. Feedback & Report Module**

- Users can download plans, reports, and give feedback.

---

## **5. User Roles**

### **1. Admin**

- Manages users, engineers, plans, materials, and system data.

### **2. Engineer**

- Can upload plans, provide advice, update availability.

- Can view client requirements.

### 3. User (Homeowner)

- Enters house requirements
  - Views plan suggestions
  - Calculates budget
  - Reviews engineer details
  - Downloads reports
- 

### 6. System Ownership

Owned by who that develops and commercially operates the platform. The system contains **architectural plans, floor layouts, and design images**, which makes ownership critical for **intellectual property protection** and **content security**.

---

### 7. Industry / Domain

- **Civil Engineering**
- **Architecture & Construction**

### 8. Data Collection Contacts

1. **Mr. Anoop**  
Role: Civil Engineer  
Contact: +91 6238211371

### 9. Questionnaire for Data Collection

1. What is the typical cost per square foot for residential construction in your area?
2. What are the most commonly used materials for walls, flooring, and roofing today?
3. How do clients usually communicate their house requirements to you?
4. What problems do homeowners face during the planning phase?

5. How important is a digital planning tool for first-time home builders?
6. What features should an ideal house design system include?
7. What mistakes do people make while budgeting for house construction?
8. How do you select materials based on a client's budget?
9. What type of plans do clients prefer?
10. What information about engineers should be displayed to users?

## 10.Geotagged Photos

