



Schools of Arts and Sciences  
Computer Science Department

## BuildEase



## Senior Project

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# 1. Introduction

## 1.1. Background

In today's rapidly evolving construction landscape, managing a building project has become increasingly complex. Homeowners, contractors, and professionals face considerable challenges in coordinating designs, managing budgets, assigning skilled professionals, and ensuring timely completion. Traditional construction methods often result in fragmented communication, unclear project scopes, cost overruns, and missed deadlines. These issues are further amplified by a lack of transparency and the difficulty of finding trustworthy professionals for each construction phase.

## 1.2. Problem Statement

The building process is filled with inefficiencies, especially for individuals without technical expertise or project management experience. Common issues include:

- Unclear project scope and poor design visualization
- Inaccurate cost estimations and unexpected expenses
- Difficulty identifying and hiring reliable professionals
- Delays due to time-consuming permit and approval processes
- Ineffective communication between stakeholders (homeowners, contractors, and professionals)

Traditional approaches fail to provide integrated tools that guide users through planning, budgeting, assigning personnel, and tracking progress—causing stress, delays, and increased costs.

## 1.3. Significance of the Project

**BuildEase** tackles these challenges by providing a comprehensive web-based platform designed to:

- ✓ Streamline planning from concept to completion
- ✓ Enhance project visualization using AI-powered design suggestions
- ✓ Connect users with skilled professionals and contractors
- ✓ Offer accurate cost and duration estimation tools
- ✓ Enable real-time project tracking and transparent collaboration

With BuildEase, users benefit from reduced stress, minimized waste, and improved project outcomes, all while staying in control of their vision.

## 1.4. Why a Web-Based Solution?

A web-based solution offers the flexibility and accessibility needed in modern construction planning. BuildEase leverages web technologies to deliver:

- **Universal Access:** No installation needed—works on any device, anywhere
- **Real-Time Collaboration:** All stakeholders can coordinate and update progress instantly
- **AI Integration:** Machine learning aids in design.
- **Centralized Documentation:** Secure storage of contracts
- **Responsive Interface:** Seamlessly accessible for users with varying technical skills

Unlike traditional software or mobile-only apps, BuildEase ensures inclusivity, flexibility, and powerful functionality for all parties involved.

## 1.5. Purpose and Objectives

The core mission of BuildEase is to simplify and enhance the house-building journey through a smart, guided digital platform. It empowers users to:

- **Build:** Plan every construction step, assign professionals, and visualize the end result
- **Ease:** Simplify complex construction tasks with intuitive tools and smart suggestions

### Key Features Include:

1. AI-assisted home and interior design visualization
2. Professional matching and assignment for every construction phase
3. Budget and timeline forecasting
4. Permit application guidance and centralized document management
5. Project status dashboards and milestone tracking

By bridging the gap between vision and execution, **BuildEase** makes quality construction planning accessible, efficient, and transparent.



## 2. Requirement Analysis

### 2.1. Functional Requirements

#### a) Homeowner Functional Requirements

- **Registration and Login/Logout:** Homeowners can sign up, log in, and log out securely.
- **Profile Management:** Homeowners can manage their personal information instead of email and password where admin should accept these changes and project preferences
- **Project Creation:**
  - Define the construction area.
  - Choose start and end dates for the project.
  - Set the overall budget.
- **Professional Assignment:**
  - View profiles and CVs for professionals per construction step or rating (e.g., Surveying, Civil Engineering, Electrical).
  - Update professionals choose by contractor for each step.
  - Update materials choose by contractor for each step(by browsing materials price).
- **Track Project Progress:**
  - View step-by-step progress and status updates(via Gantt charts).
  - Check updated timeline estimates by contractors.
  - Monitor total cost (professional fees + material costs+website commission+contractor cost).
- **Contractor Interaction:**

- Assign or reassign a contractor.
- Receive updates or revisions from the contractor regarding professional selections, material selections and project duration.

## b) Professional Functional Requirements

- **Registration and Login/Logout**
- **Profile Management:**
  - Update profile and curriculum vitae details.
  - Update price details.
  - Update availability status.
- **Project Browsing and Acceptance:**
  - View assigned projects.
  - Accept or reject assignments.
  - Adjust estimated step durations and notify the homeowner.
- **Status Updates:**
  - Update progress/status of their assigned construction step.
  - Upload images for each step.

## c) Contractor Functional Requirements

- **Login/Logout**
- **Contract management:**
  - sign his contracts
- **Project Management:**
  - View entire project lifecycle.
  - Review and adjust professional and materials selections.

- Monitor overall project progress and step timelines.
- Sign his contract
- **Coordination:**
  - Act as a bridge between homeowner and professionals.
  - Submit reports or change requests as needed.

#### d) Admin Functional Requirements

- **Login/Logout**
- **User Management:**
  - View, activate, or remove any user (homeowners, contractors, professionals).

## 2.2. Non-Functional Requirements

- **Security:**
  - Passwords stored with encryption (password\_hash()).
  - Role-based access control (Homeowner, Professional, Contractor, Admin).
- **Accessibility:**
  - Fully responsive design for mobile, tablet, and desktop access.
- **Ease of Use:**
  - Simple and intuitive UI with minimal JavaScript.
  - Clear labels, buttons, and real-time feedback.

## 2.3. Software Requirements

- **Frontend:**
  - HTML, CSS (Bootstrap), minimal JavaScript (modals, form validation).
- **Backend:**
  - PHP
- **Database:**
  - MySQL (via XAMPP) for storing data.
- **Development Tools:**
  - Visual Studio Code
  - Figma for UI/UX mockups
  - XAMPP for local server and database testing
- **Version Control:**
  - Git & GitHub for collaboration and version tracking



# 3. Use Case Modeling

## 1. Definition:

A **use case diagram** is a type of UML diagram that models the key functions of a system and how various types of users (called *actors*) interact with it. In **BuildEase**, use case modeling helps illustrate the services the platform offers to homeowners, contractors, professionals, and admins, showing how each role engages with the construction workflow from project creation to execution.

## 2. Sections:

### a) Homeowner Use Case Diagram:

Illustrates how a homeowner interacts with the platform — including creating a construction project, browsing and reviewing selected professionals, reviewing contractor CVs, assigning roles, updating its personal details and tracking progress.

### b) Contractor Use Case Diagram:

Shows contractor interactions — receiving project offers, accepting/rejecting them, selecting professionals, updating schedules, updating its details and overseeing the entire construction workflow.

### c) Admin Use Case Diagram:

Displays admin responsibilities — managing users, verifying professional details, overseeing project data, and monitoring overall platform health and service usage.

### d) Professional Use Case Diagram:

Outlines professional actions — managing availability, and communicating with homeowners and contractors.

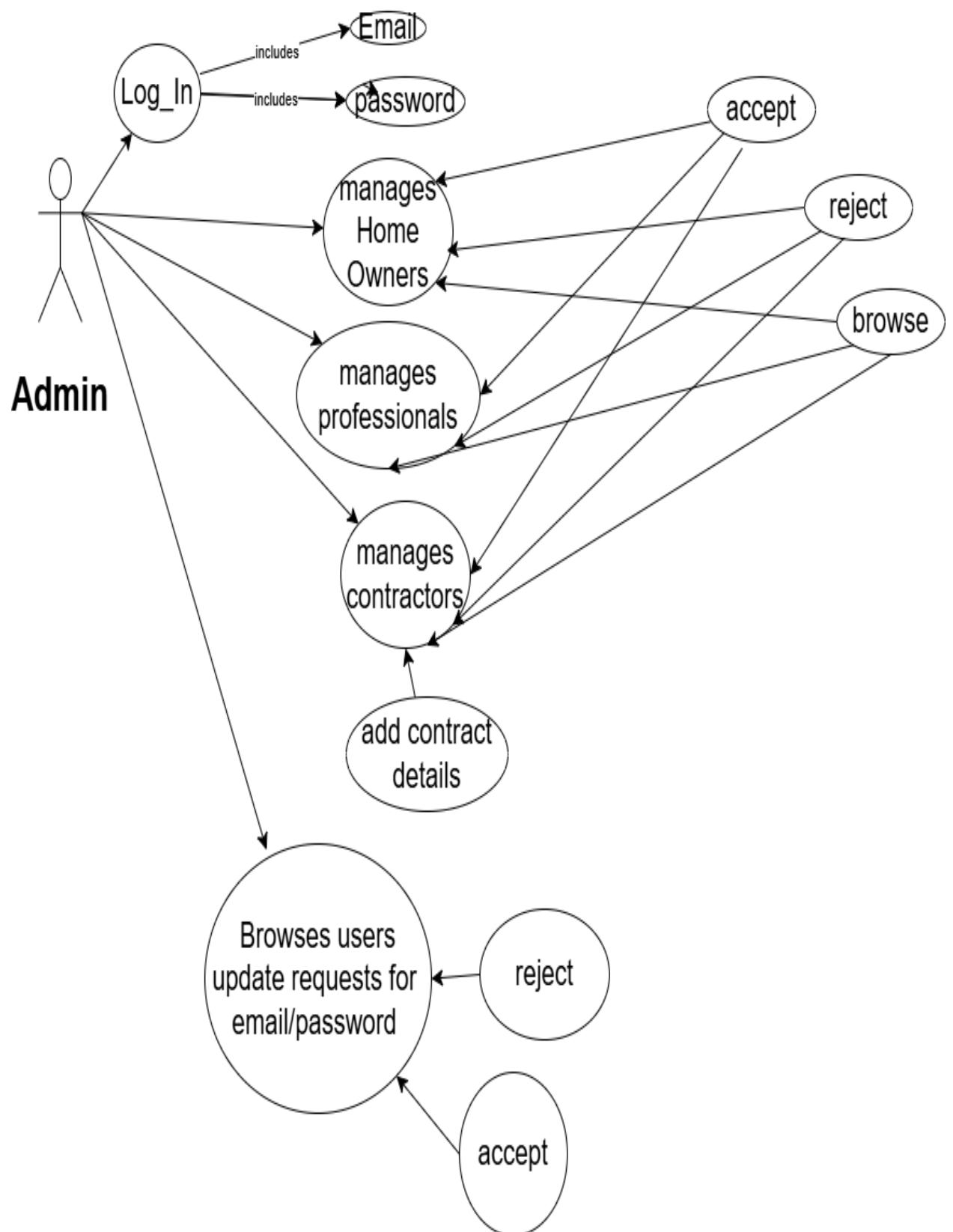
### e) Use Case Narratives:

Provides a detailed table or description for each major use case, including:

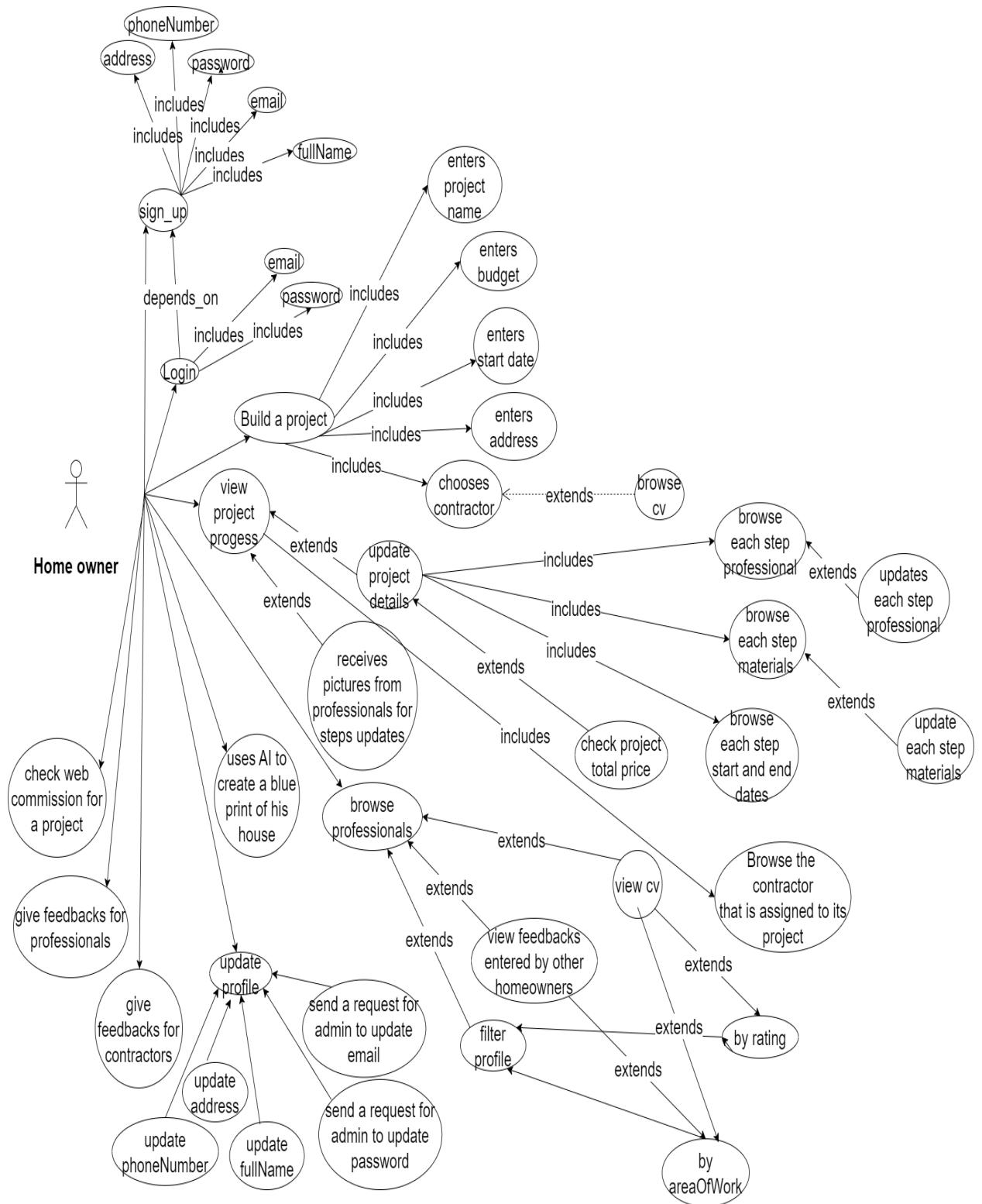
### 3. Actors:

- Homeowner
- Contractor
- Professional
- Admin

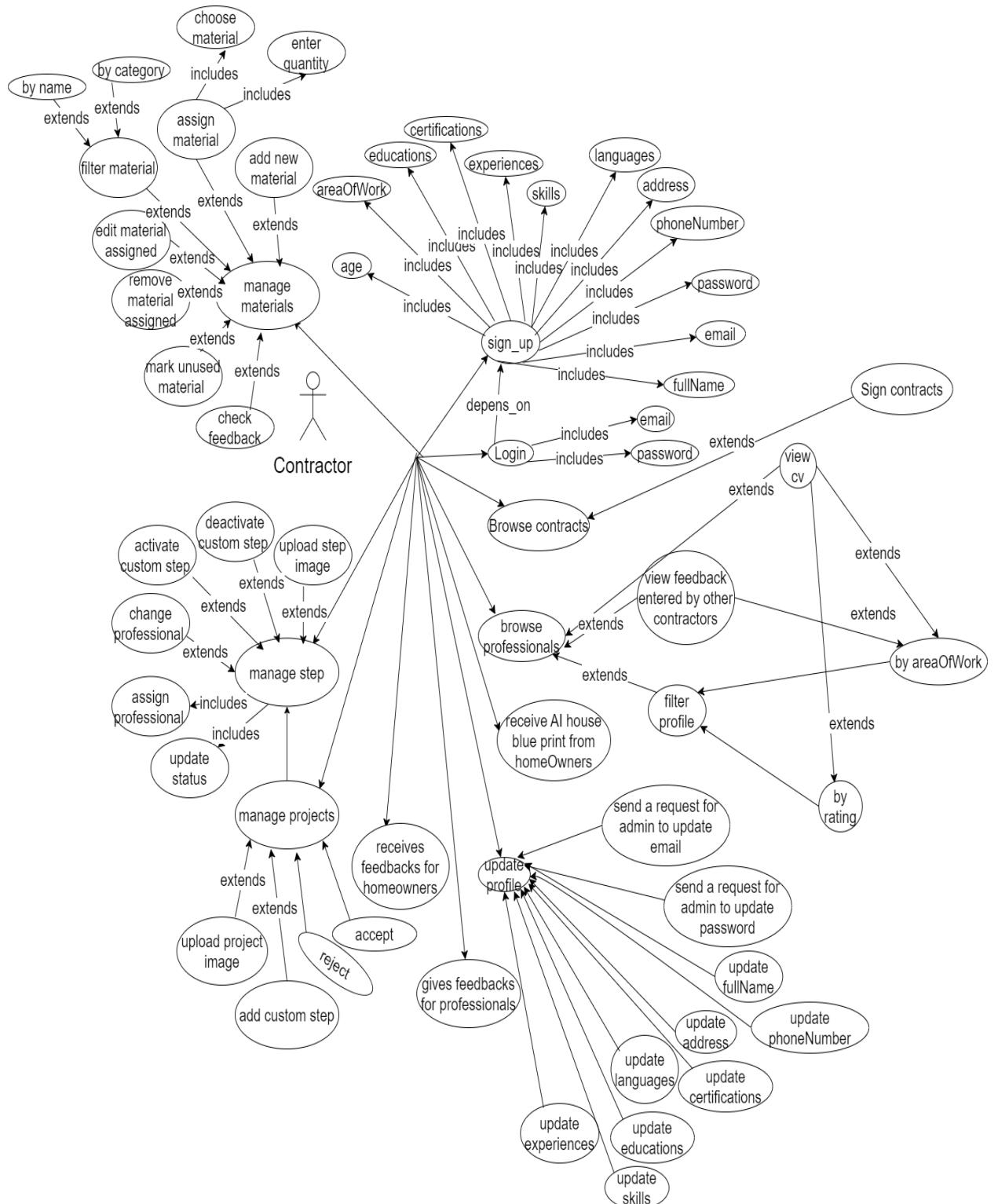
## a) Admin use case diagram:



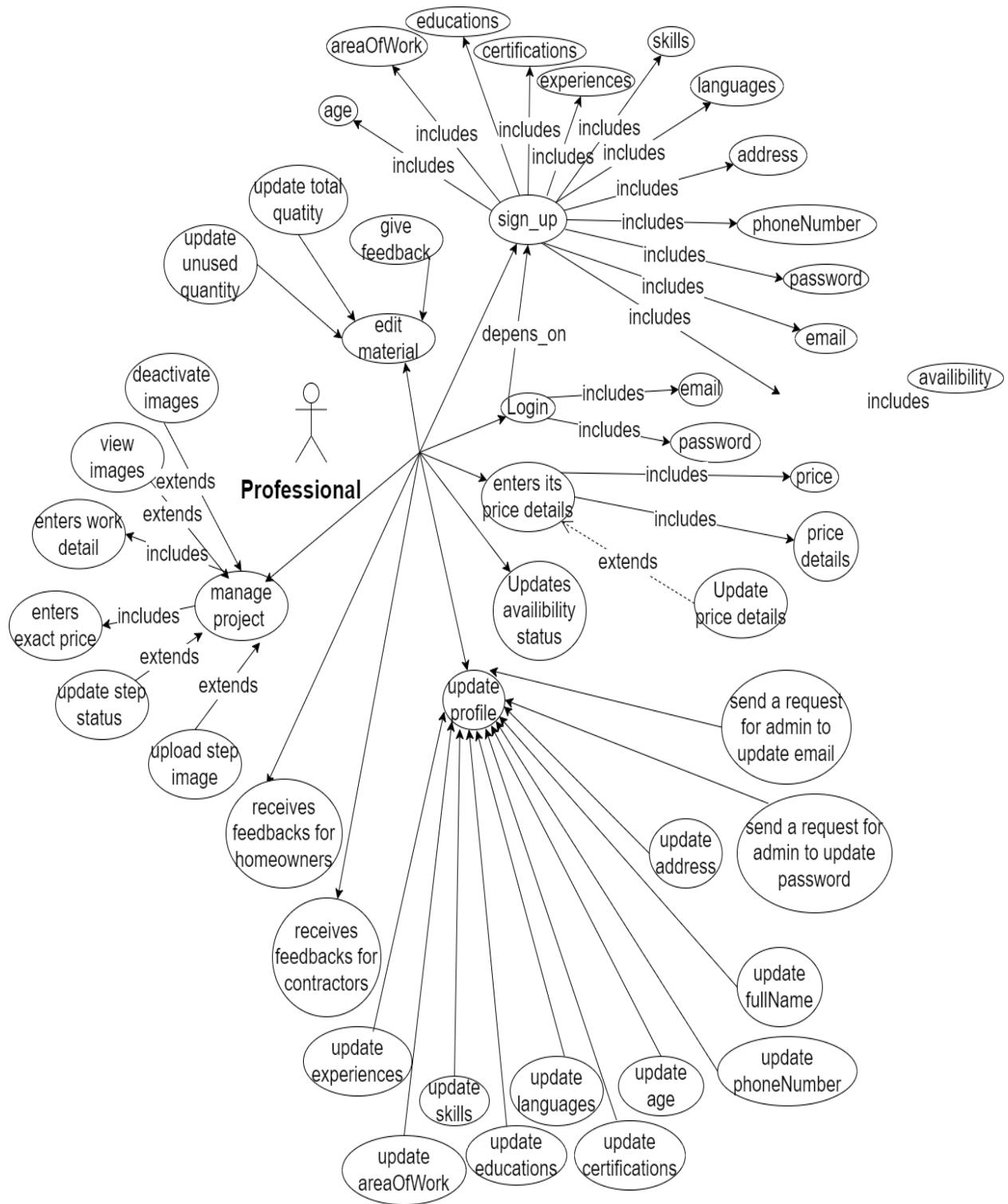
## b) Home owner use case diagram:



### c) Contractor use case diagram:



## d) Professional use case diagram:



e) Use case narratives:

*Use case: Login (for all users):*

<b>Name</b>	<i>Login</i>	
<b>Priority</b>	High	
<b>Actor</b>	Admin, Home owner, Professional, Contractor	
<b>Description</b>	The user provides valid credentials to access their accounts.	
<b>Precondition</b>	User must have a valid account.	
<b>Typical course of events</b>	<u><b>Actor action</b></u> 1. User clicks on “Log-In” button. 3. User enters their email and password then clicks on “Submit” button.	<u><b>System Response</b></u> 2. System displays a form. 4. The system verifies accounts.
<b>Alternative</b>	If entered credentials does not exist in the database, specified errors occur.	
<b>Conclusion</b>	The user successfully accesses their accounts.	
<b>Postcondition</b>	The system loads the user's dashboard or home page.	

*Use case: Professionals sign-up:*

<b>Name</b>	<i>Sign-up</i>	
<b>Priority</b>	High	
<b>Actor</b>	Professional	
<b>Description</b>	The professional enters his personal details to be registered and contractor can choose him for projects.	
<b>Precondition</b>	Professional must have access to the website and enters the home page for browsing its projects and updating his own steps status in a project.	
<b>Typical course of events</b>	<p><b>Actor action</b></p> <ol style="list-style-type: none"> <li>1. Professional select “sign-up” button.</li> <li>3. Professional chooses his role “professional”.</li> <li>5. The professional fills the inputs and click on “Sign-up” button.</li> </ol>	<p><b>System Response</b></p> <ol style="list-style-type: none"> <li>2. The system displays a form for registration containing common fields for all users to be entered.</li> <li>4. System displays additional field to be entered specially by professionals.</li> <li>6. System validates the inputs.</li> </ol>
<b>Alternative</b>	If any of the required field is entered incorrectly or any email already exists in the database an error will be showed and the registration task will not be done .Plus if any field is missed the professional is prompted to start the registration from the beginning.	
<b>Conclusion</b>	The professional has successfully created an account and is added to the database.	
<b>Postcondition</b>	He is now able to log In, manages their profile and receives projects request(he can approve/reject each project).	

*Use case: Home owners sign-up:*

<b>Name</b>	<i>Sign-up</i>	
<b>Priority</b>	High	
<b>Actor</b>	Home owner	
<b>Description</b>	This is the process where home creates an account on the BUILDEASE platform by providing their personal details and upon successful validation their account is created.	
<b>Precondition</b>	Home owner must have access to the website and enters the home page.	
<b>Typical course of events</b>	<u><b>Actor action</b></u> 1. Home owner select "sign-up" button. 3. The home owner fills the inputs and chooses his role "homeowner", then clicks on "sign-up". <u><b>System Response</b></u> 2. The system displays a form for registration containing fields to be enter by the home owner. 4. validates the inputs.	
<b>Alternative</b>	If any of the required fields is entered incorrectly or any email already exist an error will be showed and the registration task will fail. Plus if any field is missed the Home owner is prompted to repeat the registration process.	
<b>Conclusion</b>	The home owner has successfully created an account and is added to the database.	
<b>Postcondition</b>	The home owner can now build a project.	

*Use case: Professional manages projects:*

<b>Name</b>	Manage project	
<b>Priority</b>	High	
<b>Actor</b>	Professional	
<b>Description</b>	The professional manages a project by updating step statuses, uploading images, and viewing project details.	
<b>Precondition</b>	<ul style="list-style-type: none"> <li>• The professional is logged in.</li> <li>• The professional has been assigned to a specific project step.</li> </ul>	
<b>Typical course of events</b>	<p><b>Actor action</b></p> <ol style="list-style-type: none"> <li>1. Professional selects the "Project Management" option from the navigation menu.</li> <li>3. The professional views the project details.</li> <li>4. The professional updates the status of a project step.</li> <li>6. The professional uploads an image related to the project step.</li> </ol>	<p><b>System Response</b></p> <ol style="list-style-type: none"> <li>2. The system displays the project management page for the currently logged-in professional.</li> <li>5. The system provides a form with a dropdown to select the new status.</li> <li>7. The system provides a form to upload an image.</li> </ol>
<b>Alternative</b>		
<b>Conclusion</b>	The professional successfully manages the project by updating step statuses, uploading relevant images, and viewing project details.	
<b>Postcondition</b>	The professional can continue managing the project, receiving real-time updates, and responding to project-related tasks.	

*Use case: Contractor manages step:*

<b>Name</b>	Manage Step	
<b>Priority</b>	High	
<b>Actor</b>	Contractor	
<b>Description</b>	This is the process where a contractor manages steps for a project on the BUILDEASE platform. It includes assigning professionals, updating step statuses, adding/removing materials, and uploading pictures related to the step.	
<b>Precondition</b>	The contractor must be logged into their account. The contractor must have selected a project from the dashboard. The contractor must navigate to the step details page by selecting a specific step number.	
<b>Typical course of events</b>	<b>Actor action</b> 1. Contractor selects a step number from the project details page. 3. Contractor decides to assign or change a professional for the step. 5. Contractor selects a professional and submits the form. 7. Contractor wants to update the step status. 9. Contractor adds materials to the step. 11. Contractor uploads a picture of the step progress via the upload modal.	<b>System Response</b> 2. Contractor selects a step number from the project details page. 4. System shows a dropdown list of available professionals based on the area of work. 6. System validates input, assigns the professional, updates availability status, and displays confirmation. 8. System provides a dropdown to select the new status. 10. System calculates estimated and actual material costs based on usage and unused quantities.
<b>Alternative</b>	If the uploaded file is not an image or exceeds the maximum allowed size: The system displays an appropriate error message and does not save the file. If the system fails to update the step status due to database issues: An error message is shown, and the contractor may retry the action.	
<b>Conclusion</b>	The contractor successfully manages the step by.	
<b>Postcondition</b>	The contractor can now proceed to manage other steps or move on to the next phase of the project.	

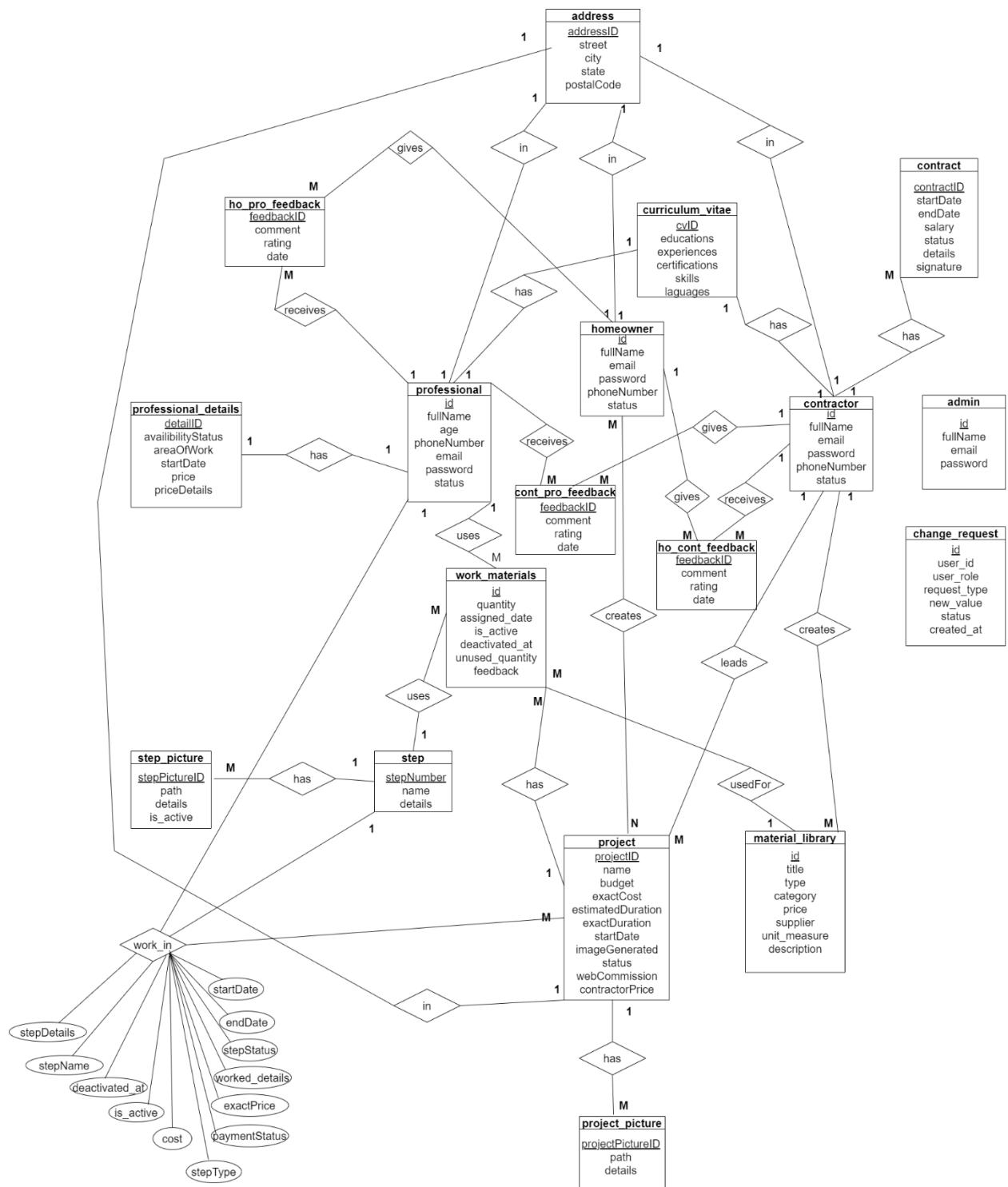
# 4.ER Diagram

## 4.1. What is an ER Diagram?

An Entity-Relationship (ER) Diagram is a visual representation of data and its relationships within a system. It shows entities (objects or concepts) and the connections (relationships) between them, helping to design and understand the structure of a database.

## 4.2. Elements:

1. Entity (Rectangle): Represents a table or object in the database. Attributes are listed inside the rectangle, with the primary key underlined.
2. Attributes (Inside the Rectangle): Describe the properties or characteristics of an entity with primary keys underlined.
3. Relationships (Diamond Shape): Represent the associations between entities. The type of relationship (1:1, 1:M , or M:N) is defined near the connecting lines.
4. Attributes for a relationships (Inside the Circles): Describe the properties or characteristics of a relationship



## 5.Mapping

## 5.1. What is Database Mapping?

Database mapping converts an ER diagram into a detailed textual representation of the database structure. It defines the tables, their attributes, and relationships.

## 5.2. Key Features:

1. Tables (Entities):

Each entity in the ER diagram becomes a table in the database.

2. Primary Key (Underlined):

The attribute that uniquely identifies each record in the table is underlined.

3. Foreign Key (Preceded by #):

Attributes that reference the primary key of another table are marked by a #.

Professional (ID, fullName, email, password, age, phoneNumber, status,#addressID,#cvID)

Professional\_details (detailID, areaOfWork, startDate, availabilityStatus, price,priceDetails,#id(professional))

HomeOwner (ID, fullName, email, password, phoneNumber, status,#addressID)

Contractor (ID, fullname, email, password, phoneNumber , status, #cvID, #addressID)

Contract (contractID, salary, startDate, endDate, status, details,signature, #id(contractor))

Admin (ID, fullname, email, password)

CurriculumVitae(cvID, educations, experiences, skills, laguages, certifications)

Address (addressID, street, city, state, postalCode)

Project (projectID, name, budget, exactCost, estimatedDuration, exactDuration ,startDate , status, imageGenerated, contractorPrice, websiteCommission, #id(contractor), #addressID)

Step (stepNumber, name, details)

Material\_library (id , title, type, price, category , supplier, unit\_measure, description, #id(contractor))

Work\_materials (**id**, quantity, assignedDate, is\_active, deactivated\_at, unused\_quantity, feedback, #stepNumber, #projectID, #id(professional), #materialID)

ProjectPicture (**projectPictureID**, path, details, #projectID)

Step\_picture (**stepPictureID**, path, details, #stepNumber)

Ho\_ProFeedback (**feedbackID**, rating, comment, date, #id(homeowner), #id(professional))

Cont\_ProFeedback (**feedbackID**, rating, comment, date, #id(contractor), #id( professional ))

Ho\_ContFeedback (**feedbackID**, rating, comment, date, #id(homeowner), #id(contractor))

Creates (#**projectID**, #**homeOwnerID**)

Work\_in (#**id(professional)**, #**projectID**, #**stepNumber**, startDate, endDate, stepStatus, worked\_details, exactPrice, paymentStatus, stepName, stepDetails, stepType, is\_active, deactivated\_at, cost)

change\_request(**id**, user\_id, user\_role, request\_type, new\_value, status, created\_at, )

# 6. Data Flow Diagram

## 6.1. What is a Data Flow Diagram (DFD)?

A Data Flow Diagram (DFD) is a graphical representation of how data flows through a system. It highlights the processes, data stores, external entities, and the flow of data between them.

## 6.2. Key Components of a DFD:

### 1. Actors (Circles):

Represent external entities that interact with the system. They can send or receive data.

### 2. Processes (Rounded Rectangles):

Represent actions or functions performed on the data. Each process has a unique name.

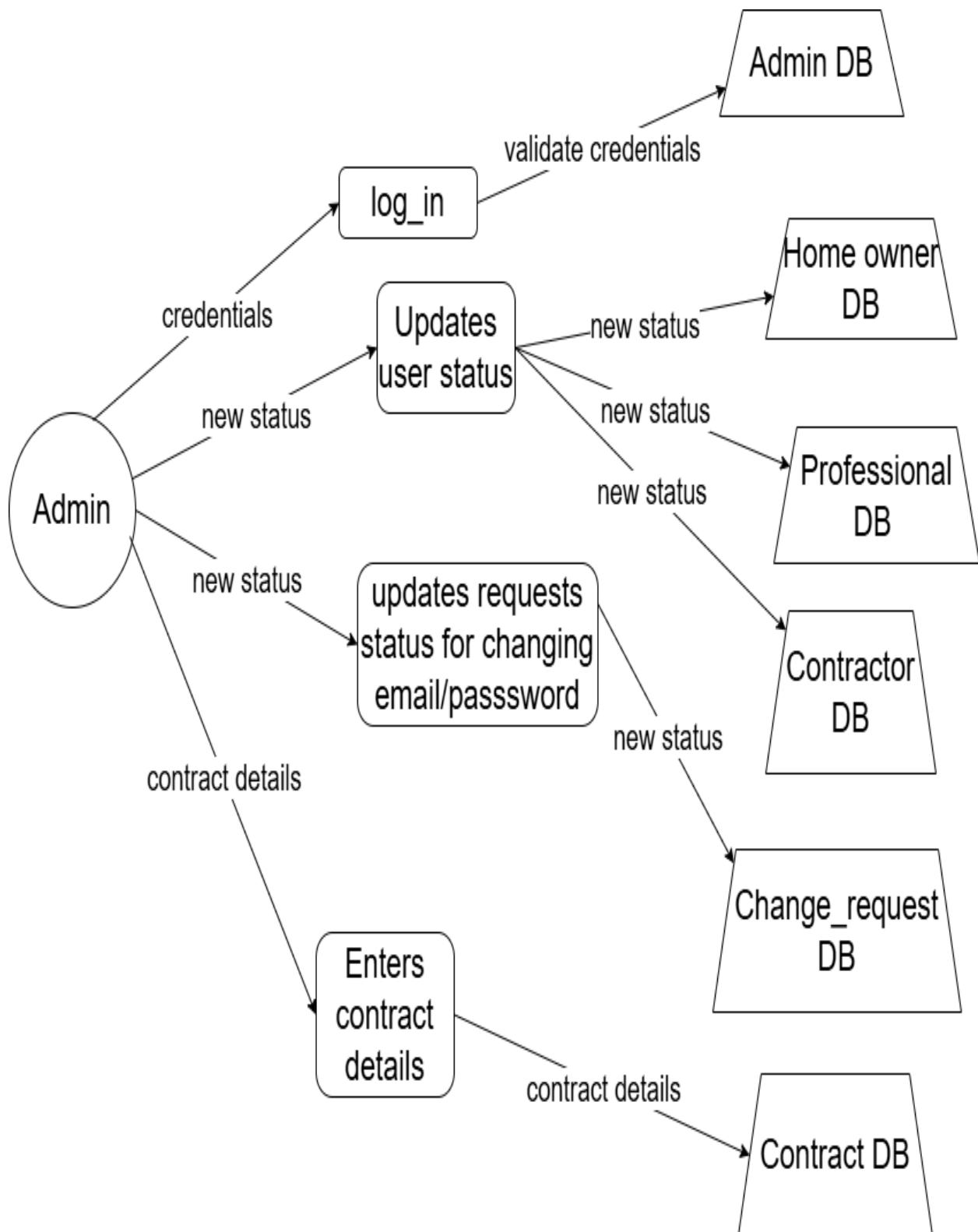
### 3. Data Flows (Arrows):

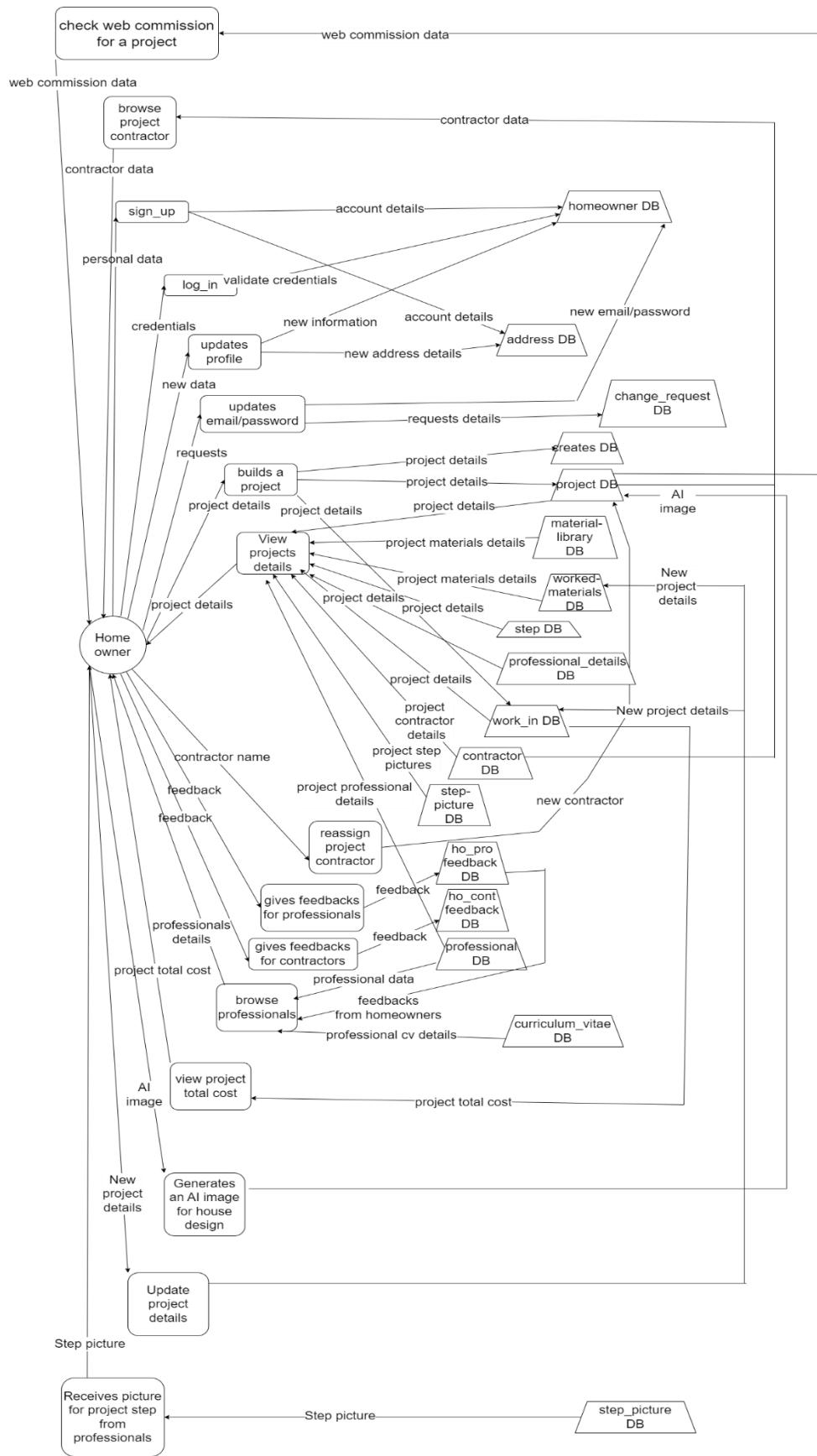
Indicate the movement of data between entities, processes, and data stores. The arrow direction shows the flow.

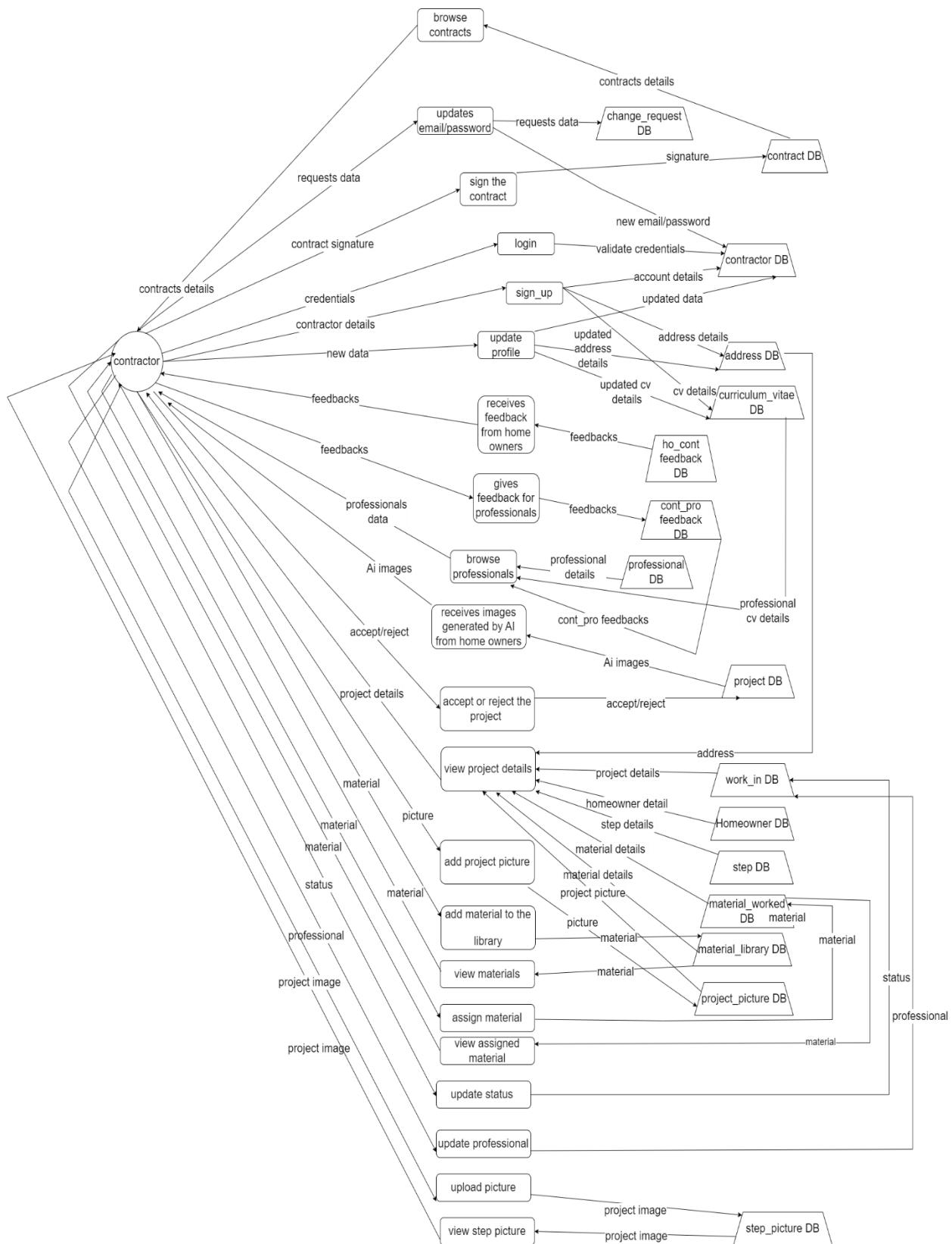
### 4. Data Stores (Trapezoids):

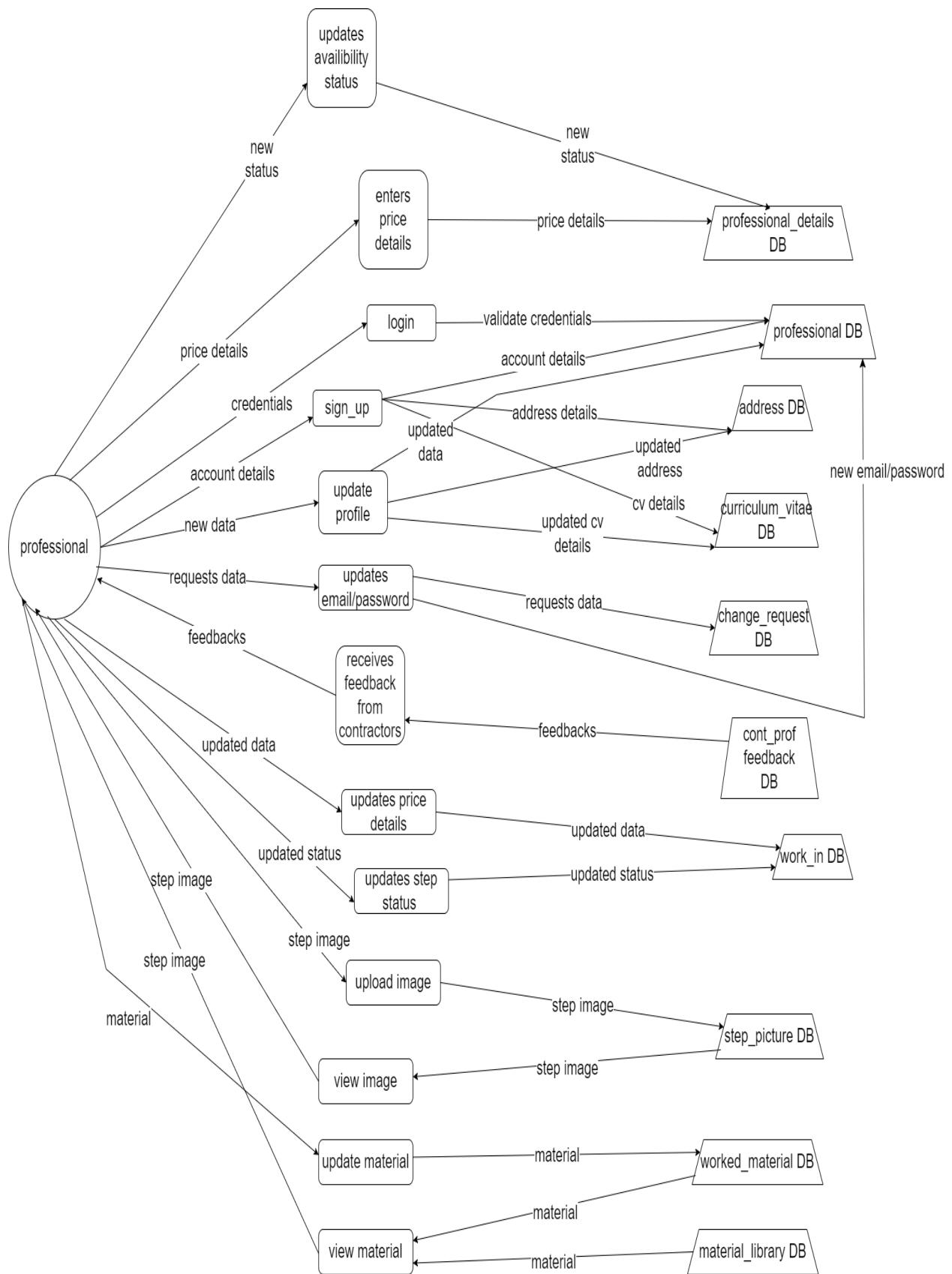
Represent storage locations for data within the system.

### 6.3. Data flow diagram:









# 7. Sequence Diagram

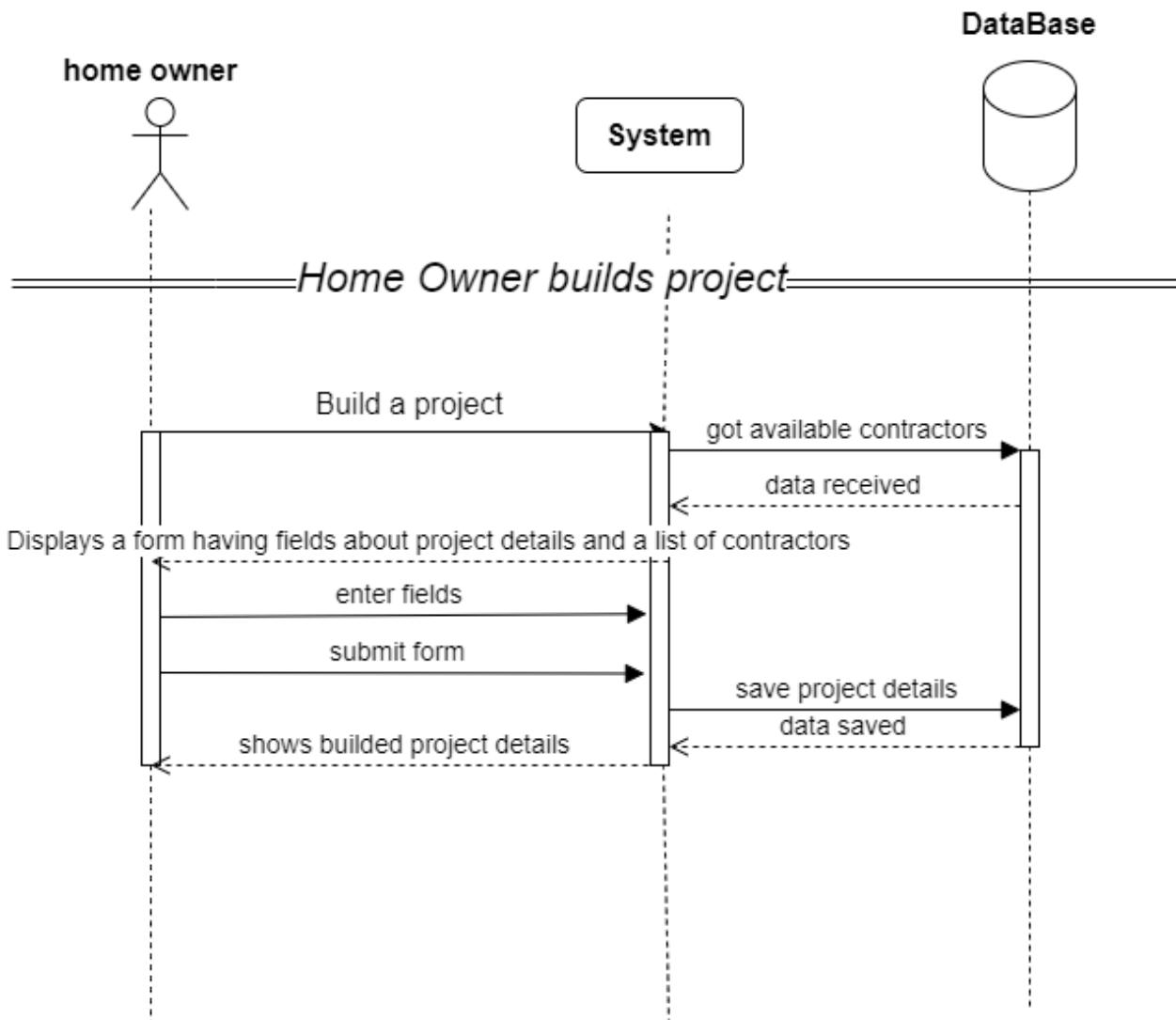
## 7.1. What is a Sequence Diagram?

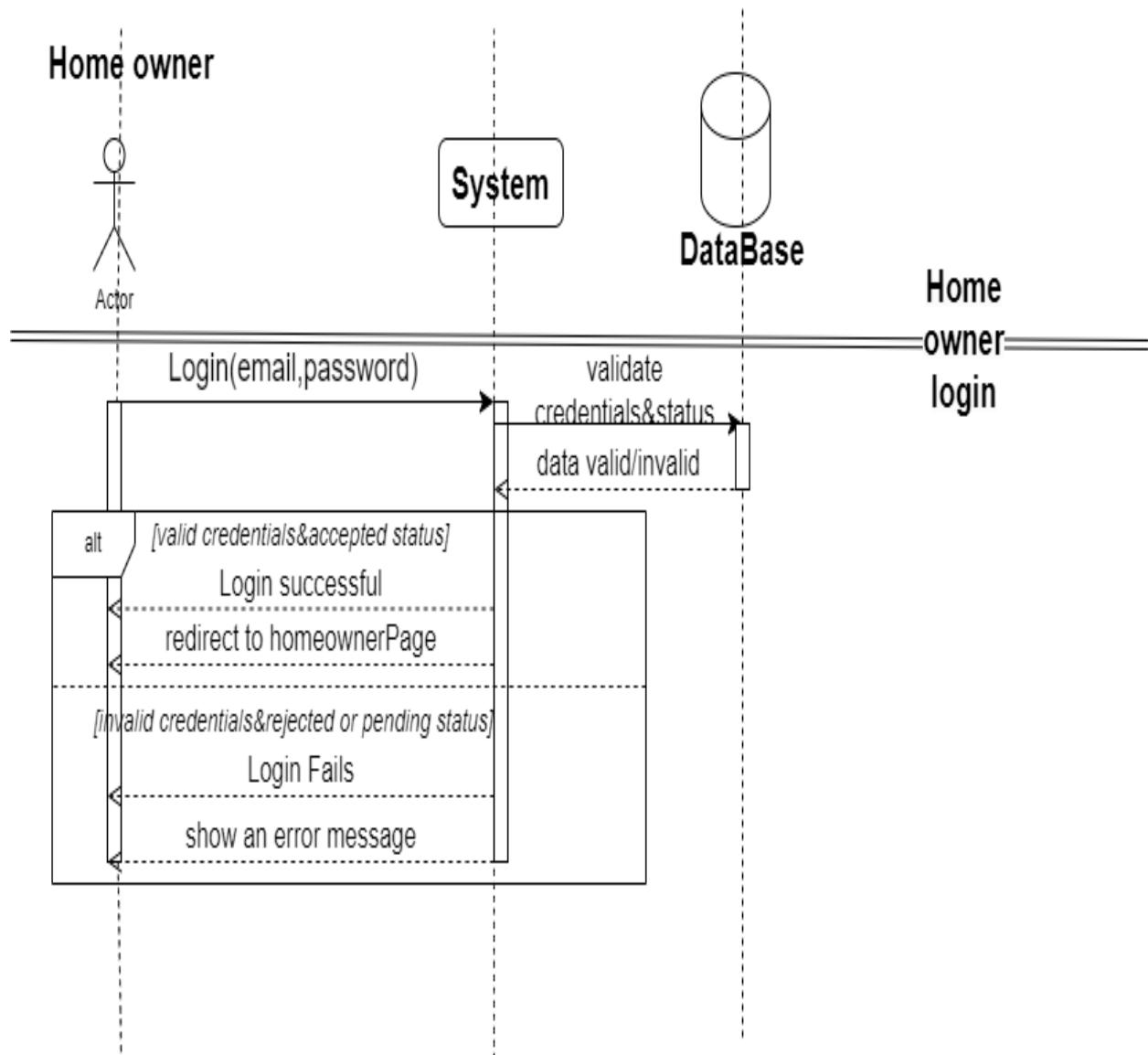
A sequence diagram shows how objects interact over time by exchanging messages in a specific order to achieve a task.

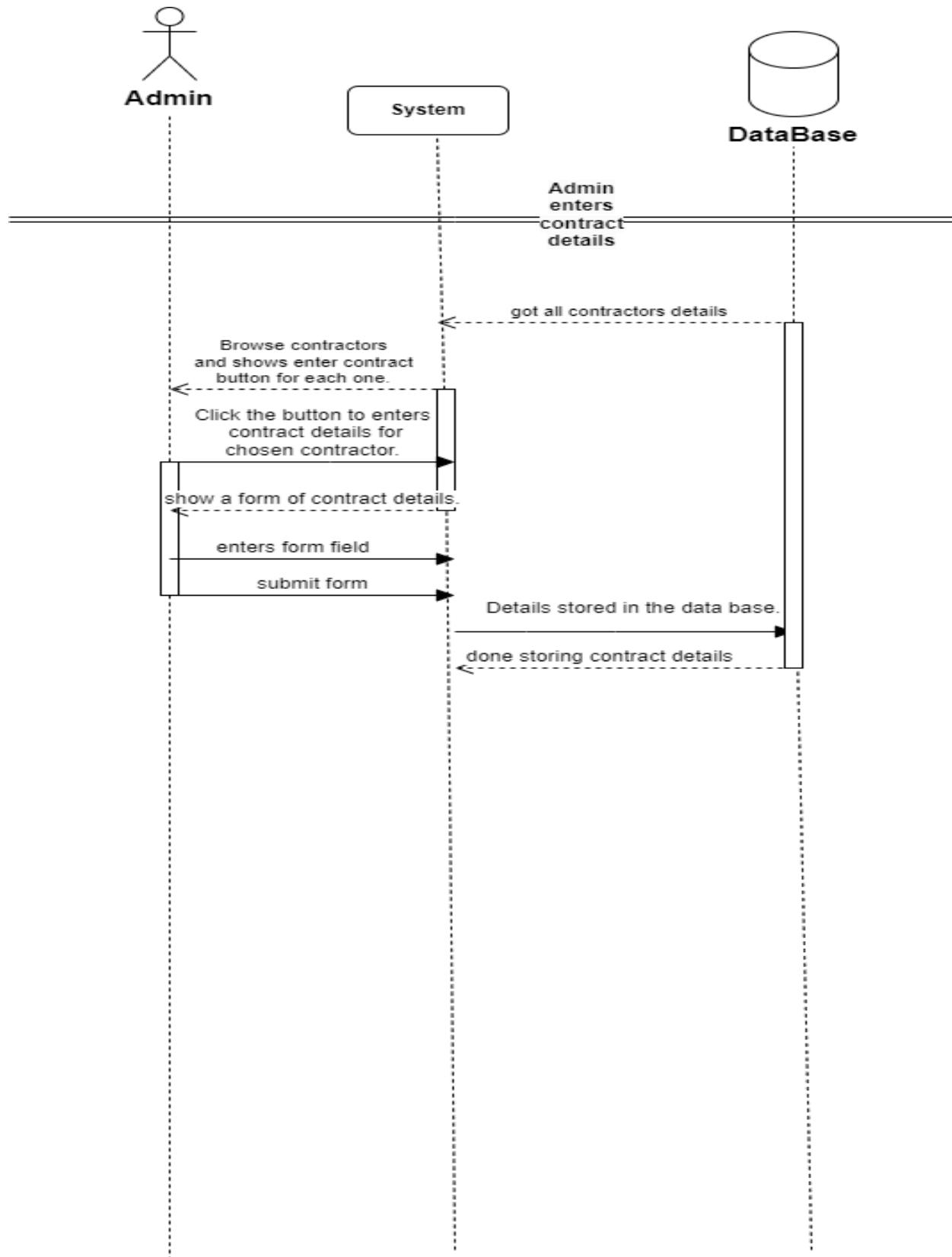
## 7.2. Key Components of a Sequence Diagram:

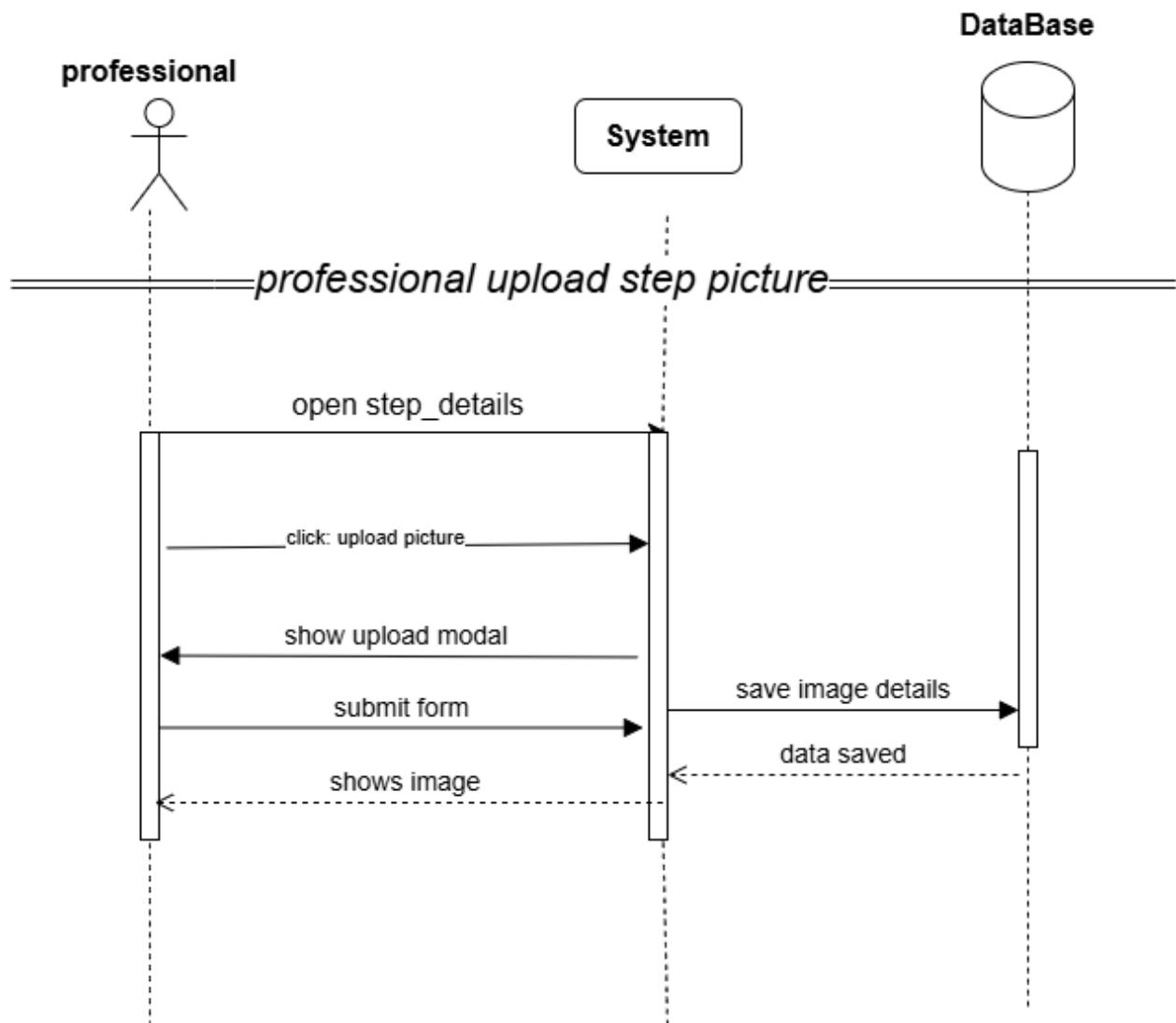
- a) Actors/Objects: Entities that interact, placed at the top of the diagram.
- b) Lifelines: Vertical dashed lines representing the object's existence over time.
- c) Messages: Arrows showing communication or interactions between objects.
- d) Activation Bars: Thin rectangles on lifelines showing when an object is performing an action.
- e) Alt/Opt Frames: Frames that represent conditional (optional or alternative) flows in the diagram.

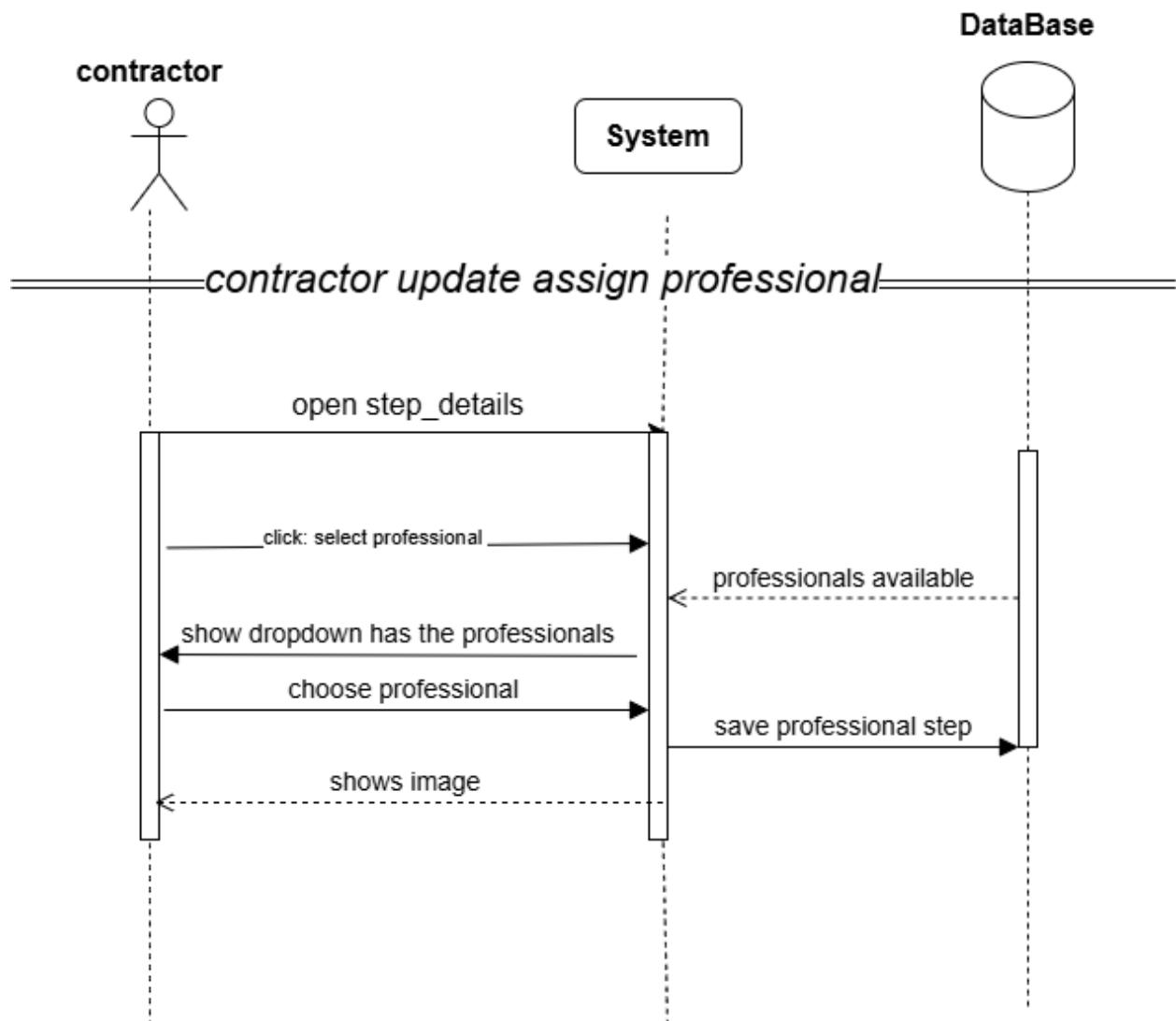
### 7.3. Sequence Diagram:





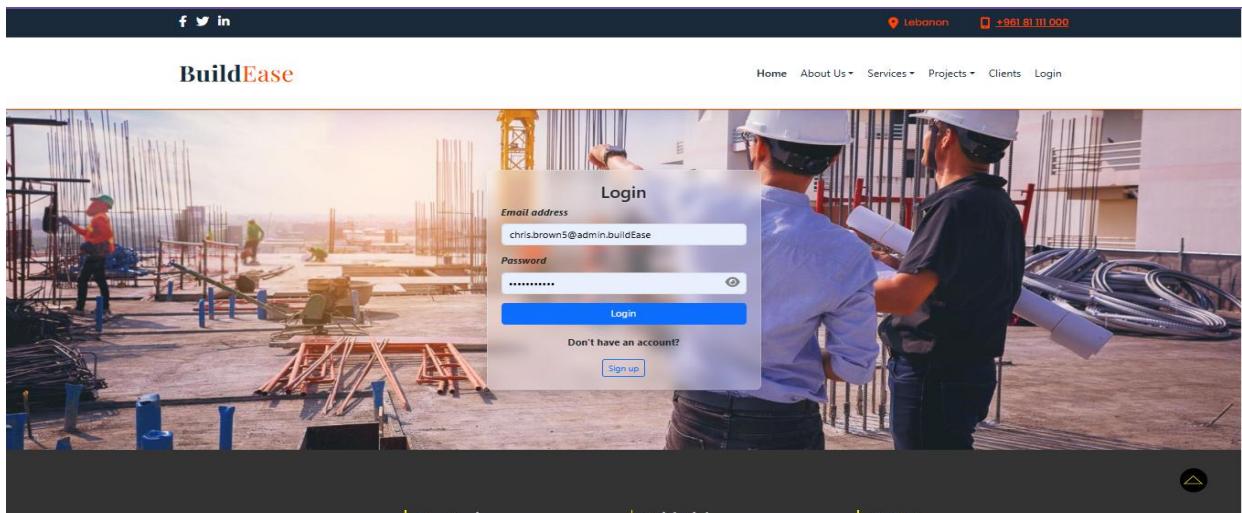






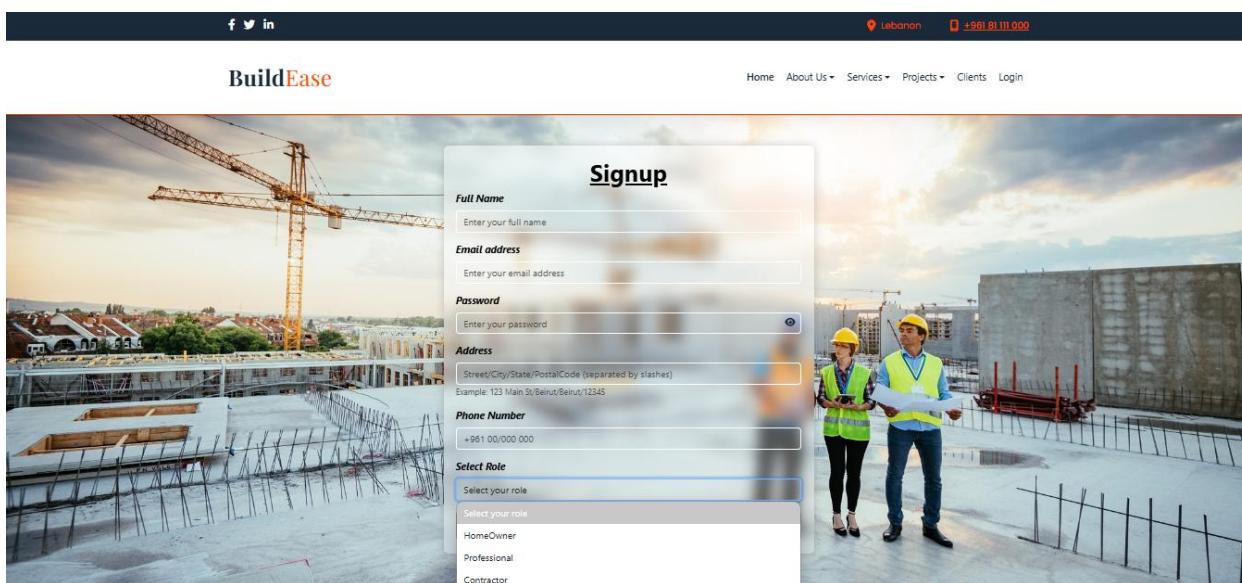
## 8.Website Demo:

### 1)Login (Admin,home owner,contractor and professional):

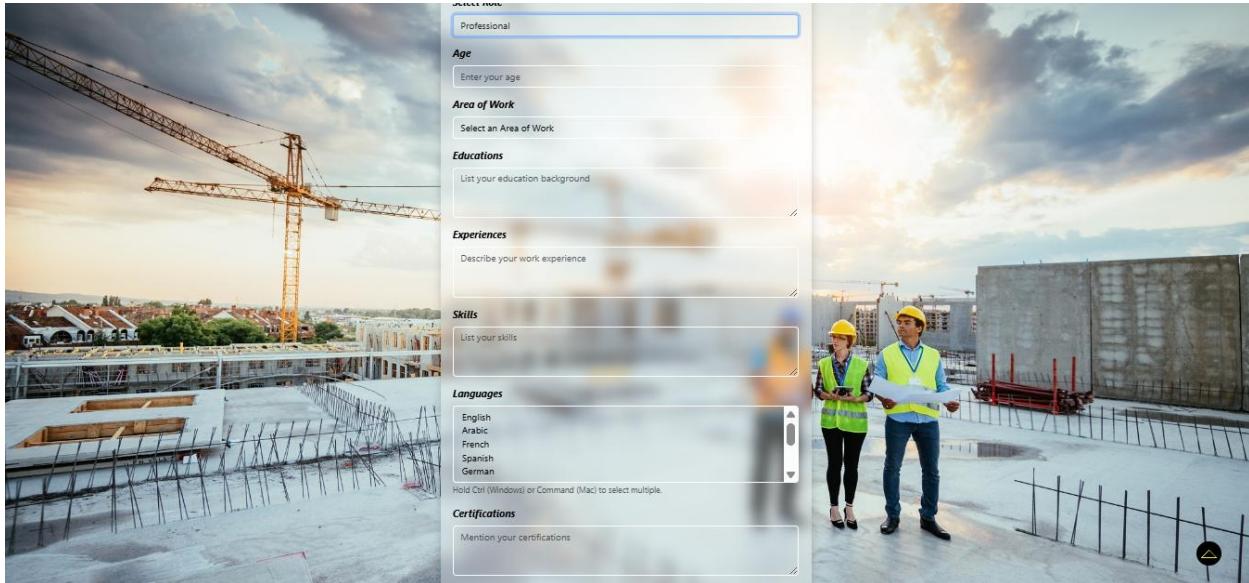


### 2)Sign\_up:

#### 2.1)Sign\_up for home owners:



## 2.2)Sign\_up for professionals:



A composite image showing a construction site with a large yellow crane in the background. In the foreground, two construction workers wearing hard hats and safety vests are standing on a concrete surface, looking at blueprints. To the left of the workers is a screenshot of a sign-up form for professionals. The form includes fields for Age, Area of Work, Education, Experience, Skills, Languages (with options for English, Arabic, French, Spanish, and German), and Certifications. A 'Sign Up' button is at the bottom.

Professional

Age  
Enter your age

Area of Work  
Select an Area of Work

Educations  
List your education background

Experiences  
Describe your work experience

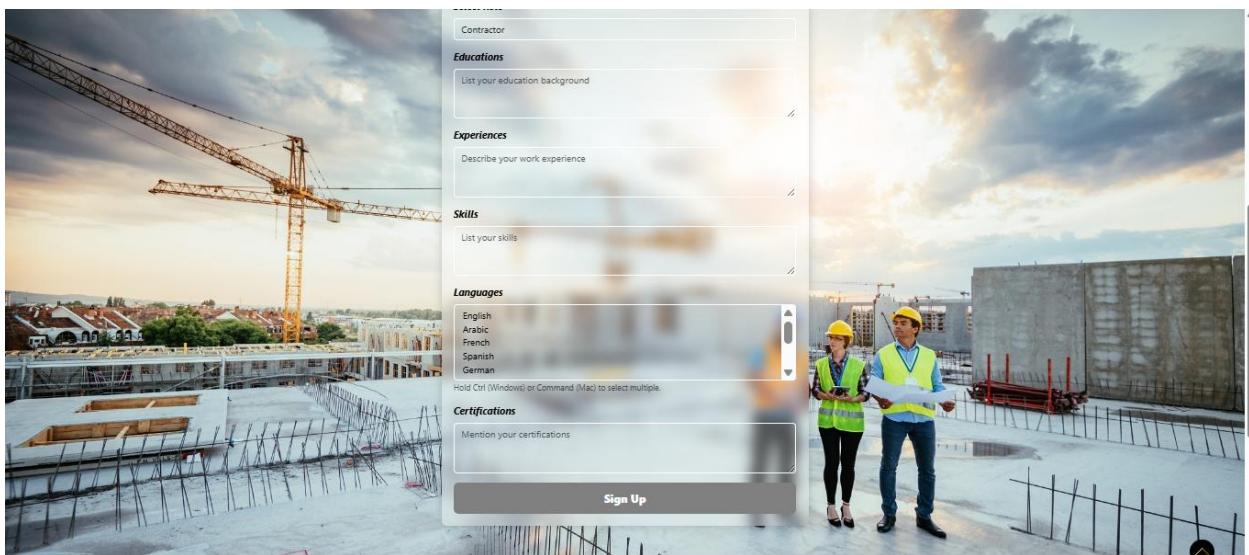
Skills  
List your skills

Languages  
English, Arabic, French, Spanish, German

Certifications  
Mention your certifications

Sign Up

## 2.3)Sign\_up for contractors:



A composite image showing a construction site with a large yellow crane in the background. In the foreground, two construction workers wearing hard hats and safety vests are standing on a concrete surface, looking at blueprints. To the left of the workers is a screenshot of a sign-up form for contractors. The form includes fields for Education, Experience, Skills, Languages (with options for English, Arabic, French, Spanish, and German), and Certifications. A 'Sign Up' button is at the bottom.

Contractor

Educations  
List your education background

Experiences  
Describe your work experience

Skills  
List your skills

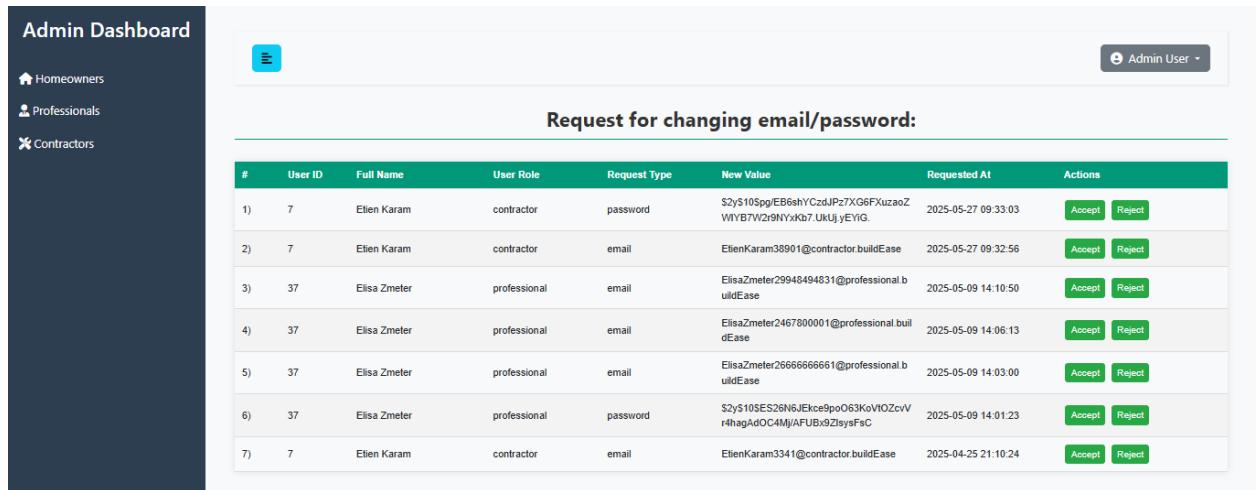
Languages  
English, Arabic, French, Spanish, German

Certifications  
Mention your certifications

Sign Up

## 3)Admin dashboard

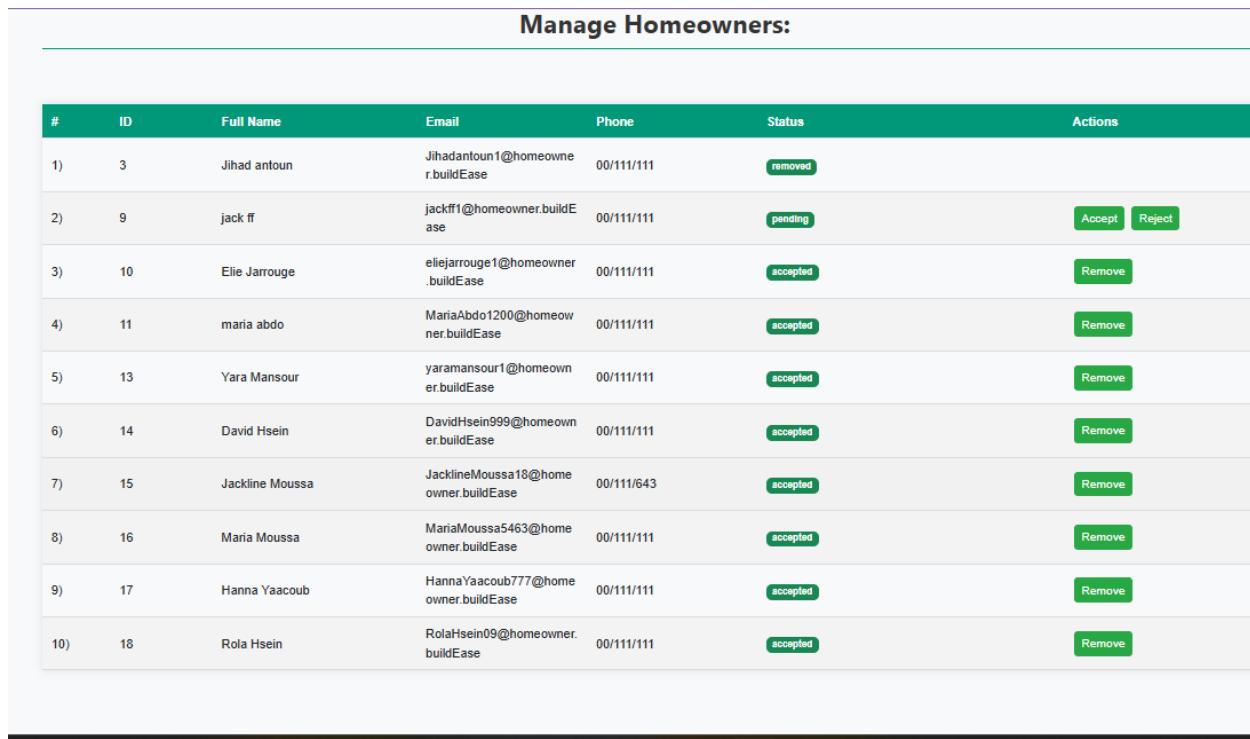
### 3.1)admin email and password change requests.



The screenshot shows the Admin Dashboard with a sidebar on the left containing links for Homeowners, Professionals, and Contractors. The main area is titled "Request for changing email/password:" and displays a table of 7 rows. Each row contains information about a user's request, including User ID, Full Name, User Role, Request Type, New Value, Requested At, and Actions (Accept or Reject). The table has a green header and white rows.

#	User ID	Full Name	User Role	Request Type	New Value	Requested At	Actions
1)	7	Elien Karam	contractor	password	\$2y\$10\$pgEB6shVCzdJIpz7XG6FXuzaoZWiYBTW2qNYxKb7.UkLijyEYIG.	2025-05-27 09:33:03	[Accept] [Reject]
2)	7	Elien Karam	contractor	email	ElienKaram38901@contractor.buildEase	2025-05-27 09:32:56	[Accept] [Reject]
3)	37	Elisa Zmeter	professional	email	ElisaZmeter29948494831@professional.buildEase	2025-05-09 14:10:50	[Accept] [Reject]
4)	37	Elisa Zmeter	professional	email	ElisaZmeter2467800001@professional.buildEase	2025-05-09 14:06:13	[Accept] [Reject]
5)	37	Elisa Zmeter	professional	email	ElisaZmeter2666666661@professional.buildEase	2025-05-09 14:03:00	[Accept] [Reject]
6)	37	Elisa Zmeter	professional	password	\$2y\$10\$ES26N6JEcke9poO63KoVIOZcvVr4hagAdOC4MjAFUBx92lsysFsC	2025-05-09 14:01:23	[Accept] [Reject]
7)	7	Elien Karam	contractor	email	ElienKaram3341@contractor.buildEase	2025-04-25 21:10:24	[Accept] [Reject]

### 3.2)Admin managing home owners:



The screenshot shows a table titled "Manage Homeowners:" with 10 rows of data. Each row represents a homeowner with columns for ID, Full Name, Email, Phone, Status (either removed, pending, accepted), and Actions (Accept, Remove). The table has a green header and white rows.

#	ID	Full Name	Email	Phone	Status	Actions
1)	3	Jihad antoun	Jihadantoun1@homeowner.buildEase	00/111/111	removed	
2)	9	jack ff	jackff1@homeowner.buildEase	00/111/111	pending	[Accept] [Reject]
3)	10	Elie Jarrouge	eliejarrouge1@homeowner.buildEase	00/111/111	accepted	[Remove]
4)	11	maria abdo	MariaAbdo1200@homeowner.buildEase	00/111/111	accepted	[Remove]
5)	13	Yara Mansour	yaramansour1@homeowner.buildEase	00/111/111	accepted	[Remove]
6)	14	David Hsein	DavidHsein999@homeowner.buildEase	00/111/111	accepted	[Remove]
7)	15	Jackline Moussa	JacklineMoussa18@homeowner.buildEase	00/111/643	accepted	[Remove]
8)	16	Maria Moussa	MariaMoussa5463@homeowner.buildEase	00/111/111	accepted	[Remove]
9)	17	Hanna Yaacoub	HannaYaacoub777@homeowner.buildEase	00/111/111	accepted	[Remove]
10)	18	Rola Hsein	RolaHsein09@homeowner.buildEase	00/111/111	accepted	[Remove]

### 3.3)Admin managing professionals:

Manage Professionals:									
#	ID	Full Name	Email	Phone	Area of work	Average rating	CV	Status	Actions
1)	43	Malek Jomaa	MalekJomaa456@professional.buildEase	76/693 467	Civil Engineering	★ 5 ★	<a href="#">View CV</a>	<span>pending</span>	<span>Accept</span> <span>Reject</span>
2)	37	Elisa Zmeter	ElisaZmeter29948494831@professional.buildEase	00/222 888	Civil Engineering	★ 4.8 ★	<a href="#">View CV</a>	<span>accepted</span>	<span>Remove</span>
3)	38	grg antn	grgantn21@professional.buildEase	00/222 888	Civil Engineering	★ 3 ★	<a href="#">View CV</a>	<span>accepted</span>	<span>Remove</span>
4)	36	Clarita Antoun	claritaantoun88@professional.buildEase	00/144/111	Land Surveying	★ 2 ★	<a href="#">View CV</a>	<span>rejected</span>	
5)	45	Carla Antoun	CarlaAntoun0976@professional.buildEase	03/756 877	Land Surveying	★ 1 ★	<a href="#">View CV</a>	<span>accepted</span>	<span>Remove</span>
6)	105	Leo Electrician	leo.electrician@buildEase.com	70/123456	Electrical Engineering	No feedback yet	<a href="#">View CV</a>	<span>accepted</span>	<span>Remove</span>

#### 3.3.1)Admin browsing professionals cv:

— Go Back

#### Curriculum vitae

CV details not found or the user is not accepted.

— Go Back

#### Curriculum vitae

**Educations**

Bachelor of Science in Civil Engineering  
University of Engineering & Technology  
Graduated: 2017

**Experiences**

Civil Engineer  
XYZ Builders Ltd. | Jan 2020 – Present  
City, Country

**Skills**

Team Coordination & Reporting.

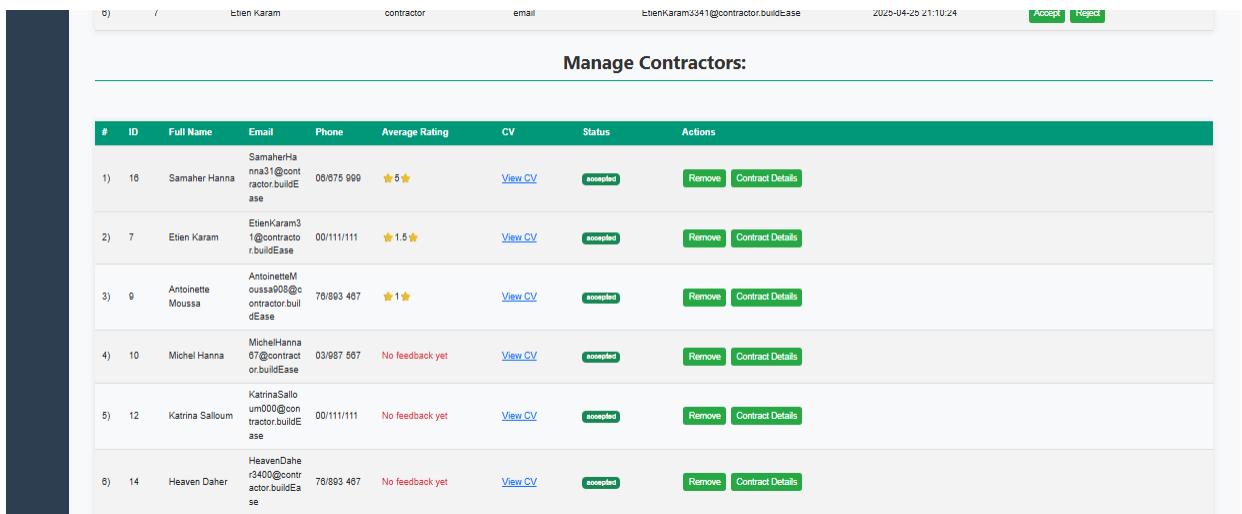
**Languages**

English,Arabic

**Certifications**

AutoCAD Certification.  
OSHA Safety Certification.  
project Management (Optional but great).

### 3.4)Admin managing contractors:



The screenshot shows a table titled "Manage Contractors:" with the following data:

#	ID	Full Name	Email	Phone	Average Rating	CV	Status	Actions
1)	18	Samaher Hanna	SamaherHanna31@contractor.buildEase	00/675 999	★ 5 ★	<a href="#">View CV</a>	<span>Accepted</span>	<a href="#">Remove</a> <a href="#">Contract Details</a>
2)	7	Etien Karam	EtienKaram31@contractor.buildEase	00/111/111	★ 1.5 ★	<a href="#">View CV</a>	<span>Accepted</span>	<a href="#">Remove</a> <a href="#">Contract Details</a>
3)	9	Antoinette Moussa	AntoinetteMoussa008@contractor.buildEase	78/893 467	★ 1 ★	<a href="#">View CV</a>	<span>Accepted</span>	<a href="#">Remove</a> <a href="#">Contract Details</a>
4)	10	Michel Hanna	MichelHanna07@contractor.buildEase	03/987 567	No feedback yet	<a href="#">View CV</a>	<span>Accepted</span>	<a href="#">Remove</a> <a href="#">Contract Details</a>
5)	12	Katrina Salloum	KatrinaSalloum000@contractor.buildEase	00/111/111	No feedback yet	<a href="#">View CV</a>	<span>Accepted</span>	<a href="#">Remove</a> <a href="#">Contract Details</a>
6)	14	Heaven Daher	HeavenDaher400@contractor.buildEase	78/893 467	No feedback yet	<a href="#">View CV</a>	<span>Accepted</span>	<a href="#">Remove</a> <a href="#">Contract Details</a>

#### 3.4.1)Admin browsing contractors cv:



The screenshot shows a form titled "Curriculum vitae" with the following sections and content:

- Educations:** Civil &mechanical engineer
- Experiences:** 7 years in ABC company for construction
- Skills:** team work
- Languages:** English,Arabic,French

### 3.4.2)Admin entering contract details for contractors:

**Enter Contract Details for Katrina Salloum**

Salary (\$):  
Enter annual salary

Contract Start Date:  
mm/dd/yyyy

Contract End Date:  
mm/dd/yyyy

Contract Status:  
active or deactivated

Contract Terms:  
Enter detailed contract terms and conditions...

**Save Contract Details**

### 3.5)Admin signs out:

**Admin Dashboard**

- Homeowners
- Professionals
- Contractors

**Request for changing email/password:**

#	User ID	Full Name	User Role	Request Type	New Value	Requested At	Actions
1)	7	Elien Karam	contractor	password	\$2y\$10\$pg/EB0shYCzdJPz7XG6FXuzaoZWlYB7W2r9NY9k8t.UkUj.yEYG.	2025-05-27 09:33:03	<b>Accept</b> <b>Reject</b>
2)	7	Elien Karam	contractor	email	ElienKaram39001@contractor.buildEase	2025-05-27 09:32:58	<b>Accept</b> <b>Reject</b>
3)	37	Elisa Zmeter	professional	email	ElisaZmeter39948494831@professional.buildEase	2025-05-09 14:10:50	<b>Accept</b> <b>Reject</b>
4)	37	Elisa Zmeter	professional	email	ElisaZmeter2457800001@professional.buildEase	2025-05-09 14:08:13	<b>Accept</b> <b>Reject</b>
5)	37	Elisa Zmeter	professional	email	ElisaZmeter2866666661@professional.buildEase	2025-05-09 14:03:00	<b>Accept</b> <b>Reject</b>
6)	37	Elisa Zmeter	professional	password	\$2y\$10\$ES29N0JEkce9poO63KoVIOZovV4hagAdOC4MjAFUbxZ2sysFsC	2025-05-09 14:01:23	<b>Accept</b> <b>Reject</b>
7)	7	Elien Karam	contractor	email	ElienKaram341@contractor.buildEase	2025-04-26 21:10:24	<b>Accept</b> <b>Reject</b>

**Manage Contractors:**

#	ID	Full Name	Email	Phone	Average Rating	CV	Status	Actions
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## 4) Home owner dashboard:

### 4.1) Home owner builds a project:

#### 4.1.1) Home owner chooses contractors by browsing cv:

The screenshot shows a dark-themed web application interface. At the top right, there are links: "Go To Dashboard", "Maria Abd", "Browse Professionals", and "Give Your Feedback". The main content area has a dark background with white text. A modal window titled "Curriculum Vitae" is open, displaying the following information:

- Education:** Diploma in Construction Management – XYZ Technical College
- Skills:** Project Management, Budget Estimation & Cost Control
- Experiences:** Senior Contractor, Site Manager in Antoun's company in Australia
- Certifications:** Diploma in Construction Management – XYZ Technical College
- Languages:** English, Arabic, French, Spanish, German

On the left side of the main content area, there is a sidebar with fields for "Project Name", "Budget (\$)", "Start Date" (mm/dd/yyyy), "Estimated Duration", and "Address". Below these fields is a note: "Street/City/State/PostalCode (separated by slashes)" and an example: "123 Main St/Beirut/Beirut/12345". There is also a "Select Contractor" dropdown menu showing "Clara Tannous (ClaraTannous1499@contractor.buildEase)" and a "View CV" button.

#### 4.1.2) Errors that can appear during project creation:

The screenshot shows a dark-themed web application interface with a red header bar containing error messages:

- ✖ Invalid address format. Use: Street/City/State/PostalCode
- ✖ Start date cannot be in the past.

The main content area has a dark background with white text. It displays a form titled "Build New Project" with fields for "Project Name", "Budget (\$)", "Start Date" (mm/dd/yyyy), "Estimated Duration", and "Address". Below the "Address" field is a note: "Street/City/State/PostalCode (separated by slashes)" and an example: "123 Main St/Beirut/Beirut/12345".

## 4.2)All home owner projects(pending,accepted and rejectd) :

<b>Pending Projects</b>						
#	Project Name	Address	Budget	Start Date	Contractor	Status
1	house construction	kattabeh/kobayat/akkar/29eu	\$400000000	2025-05-31	Samer Hanna	Pending
2	house construction	andaket/akkar/north/111	\$4995792	2025-05-29	Etien Karam	Pending
3	house construction3	kattabeh/kobayat/akkar/29eu	\$400000000	2025-05-31	Samer Hanna	Pending

<b>Accepted Projects</b>							
#	Name	Address	Budget	Start Date	Status	Contractor	Actions
1	House construction	kattabeh/kobayat/akkar/29eu	\$9000	2025-06-06	Active	Etien Karam	<a href="#">View Details</a>
2	House construction 1	andaket/akkar/north/111	\$234566000	2025-12-27	Active	Etien Karam	<a href="#">View Details</a>
3	House construction 2	kattabeh/kobayat/akkar/29eu	\$34566632	2025-06-06	Active	Etien Karam	<a href="#">View Details</a>
4	House construction	kattabeh/kobayat/akkar/29eu	\$9000	2025-06-06	Active	Etien Karam	<a href="#">View Details</a>
5	House construction 1	andaket/akkar/north/111	\$234566000	2025-12-27	Active	Etien Karam	<a href="#">View Details</a>
6	House construction 2	kattabeh/kobayat/akkar/29eu	\$34566632	2025-06-06	Active	Etien Karam	<a href="#">View Details</a>

<b>Rejected Projects</b>							
#	Name	Address	Budget	Start Date	Status	Contractor	Actions
1	House construction	andaket/akkar/north/111	\$736399363	2025-05-23	Rejected	Samer Hanna	<a href="#">Reassign Contractor</a>
2	House construction	andaket/akkar/north/111	\$736399363	2025-05-23	Rejected	Etien Karam	<a href="#">Reassign Contractor</a>

## 4.3)Accepted projects->view details:

- The project contractor.
- A button to generate an image for the desired house design using AI.
- A gant chart that represents the project timeline and each step professional name,start and end dates and status.

The screenshot shows the BuildEase platform interface for a project titled "House construction 1". At the top, there's a header bar with social media links (Facebook, Twitter, LinkedIn), location ("Lebanon"), and phone number ("+961 81 111 000"). Below the header, the main navigation includes "Go To Dashboard", "Maria Abdo", "Browse Professionals", and "Feedback". The main content area has a title "House construction 1" and a button "Generate Your Own Home Design with AI". A dark sidebar contains "Contractor Information" with fields for Name (Etien Karam), Email (EtienKaram31@contractor.buildEase), and Phone (00/111/111). The "Project Timeline" section shows a Gantt chart for the year 2025, from April to December. The chart lists tasks: "Land Surveying" (May 1-25, assigned to Etien Karam, completed), "Civil Engineering" (May 1-25, assigned to Etien Karam, in progress), "Excavation" (May 1-25, assigned to Etien Karam, in progress), "Foundation & Column Construction" (June 1-25, assigned to Etien Karam, in progress), "Masonry" (July 1-25, assigned to Etien Karam, in progress), "Plastering" (August 1-25, assigned to Etien Karam, in progress), "Electrical Engineering" (September 1-25, assigned to Etien Karam, in progress), "Electrician" (October 1-25, assigned to Etien Karam, in progress), "Plumbing" (November 1-25, assigned to Etien Karam, in progress), "Plumber" (December 1-25, assigned to Etien Karam, in progress), "Carpentry" (January 1-25, assigned to Etien Karam, in progress), "Tiling" (February 1-25, assigned to Etien Karam, in progress), "Interior Design" (March 1-25, assigned to Etien Karam, in progress), and "Painter" (April 1-25, assigned to Etien Karam, in progress).

### 4.3.1) Home owner can check steps update by browsing images uploaded by professionals.

#### Step 4: Foundation & Column Construction



Step update uploaded on 2025-05-20



step image uploaded at 5/25/2025

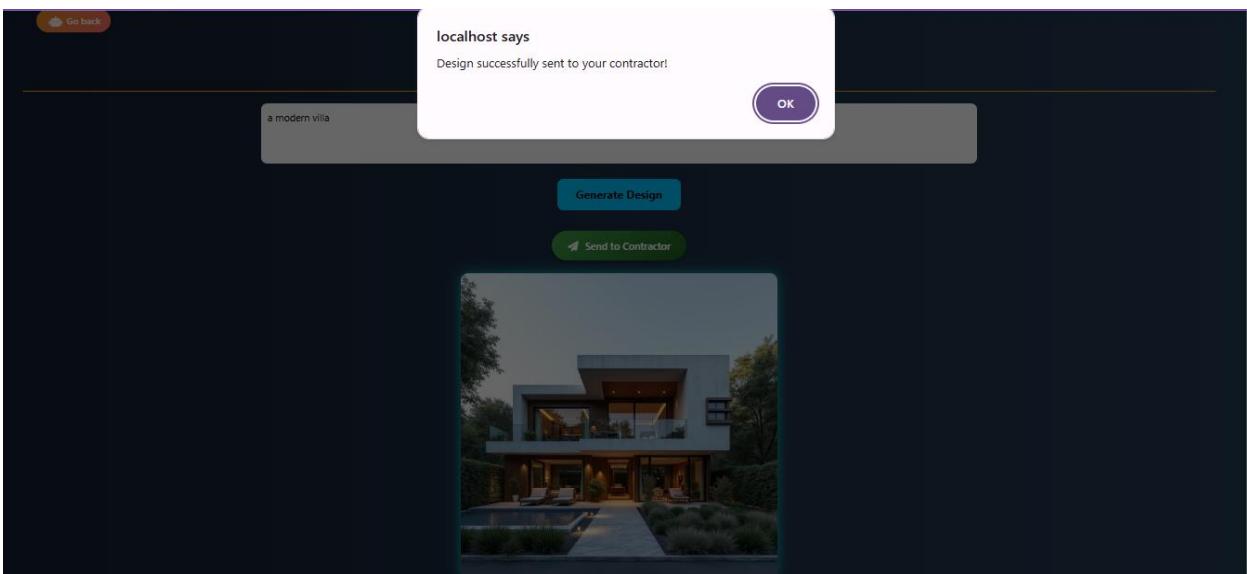
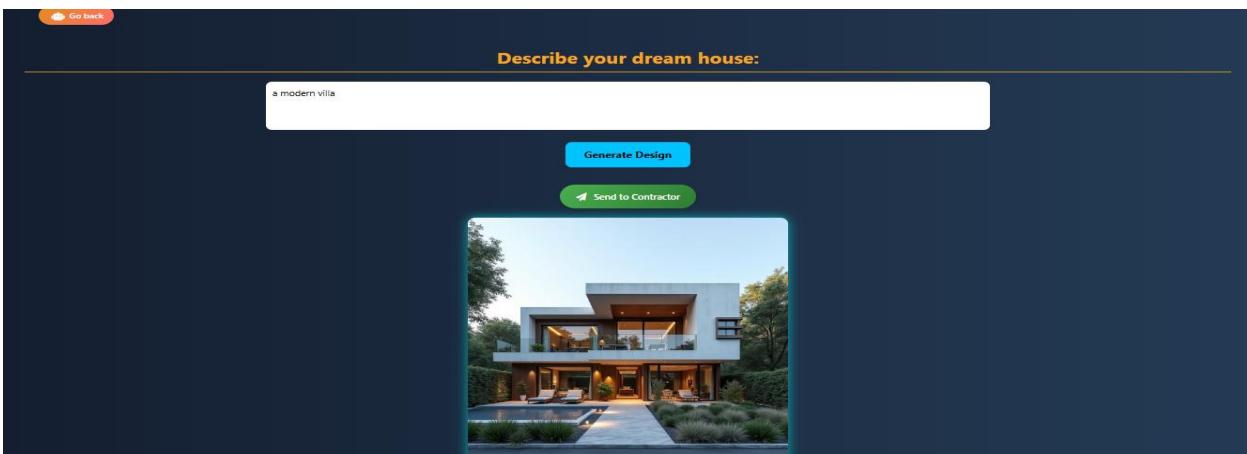
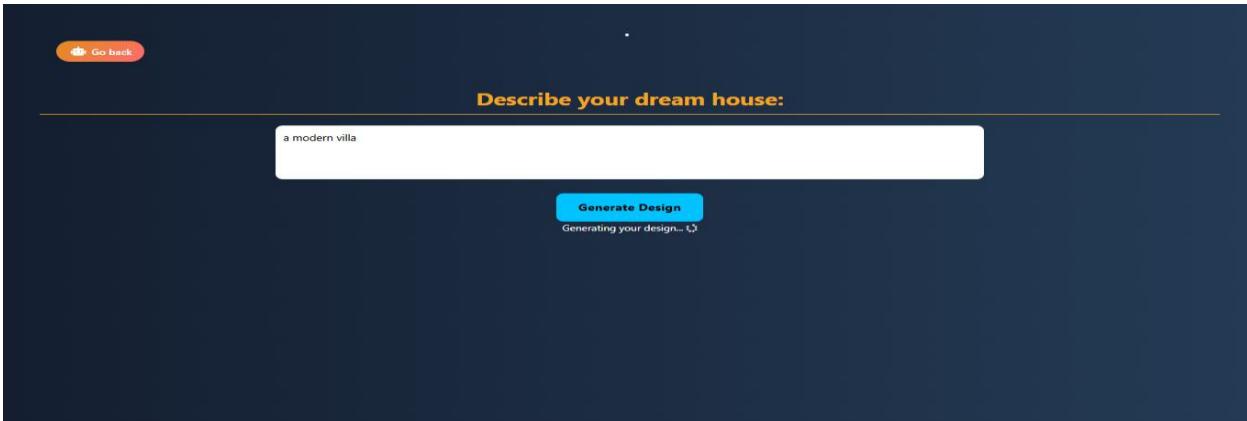
#### Step 11: Carpentry



fevr

[Update Project Details](#)

### 4.3.2)AI house design generation(home owner have the decision to send the image generated to the contractor or not.)



## 4.4) Button: "update project details" ->(All project step details appears).

- Professional/can be updated(for specific step).
- Professionals contact.
- Materials assigned by contractors/can be updated.
- Steps start and end dates.

[← Go back](#)

**Project name: House construction 1**

### Professionals & Materials

#	Step Name	Dates	Professional	Professional Contact	update professional	Update Materials Used
1	Land Surveying	2025-05-01 to 2025-05-25	Carla Antoun	Email: Carla.Antoun0976@professional.buildEase Phone: 03/736 877	Carla Antoun	1. GPS Survey Receive... Quantity: 5 Total: \$75.00 <a href="#">Update</a> 2. GPS Survey Receive... Quantity: 4 Total: \$10,400.00 <a href="#">Update</a>
2	Civil Engineering	2025-05-31 to 2025-06-30	Ahida Mourad	Email: Ahidamouradi@professional.buildEase Phone: 70/91222	Ahida Mourad	1. Structural Steel Bea... Quantity: 5 Total: \$600.00 <a href="#">Update</a> 2. AutoCAD Software ... Quantity: 2 Total: \$300.00 <a href="#">Update</a>
3	Excavation	2025-07-01 to 2025-07-31	Tony Loader	Email: tony.loader@buildEase.com Phone: 70/367890	Tony Loader	No materials assigned to this step
4	Foundation & Column Construction	2025-07-01 to 2025-08-30	Mike Rebar	Email: mike.rebar@buildEase.com Phone: 70/123456	Mike Rebar	No materials assigned to this step

[← Go back](#)

**Project name: House construction 1**

### Professionals & Materials

#	Step Name	Dates	Professional	Professional Contact	update professional	Update Materials Used
1	Land Surveying	2025-05-01 to 2025-05-25	James Mapper	Email: james.mapper@buildEase.com Phone: 70/1234567	James Mapper	1. GPS Survey Receive... Quantity: 5 Total: \$75.00 <a href="#">Update</a> 2. GPS Survey Receive... Quantity: 4 Total: \$10,400.00 <a href="#">Update</a>
2	Civil Engineering	2025-05-31 to 2025-06-30	Ahida Mourad	Email: Ahidamouradi@professional.buildEase Phone: 70/91222	Ahida Mourad	1. Structural Steel Bea... Quantity: 5 Total: \$600.00 <a href="#">Update</a> 2. AutoCAD Software ... Quantity: 2 Total: \$300.00 <a href="#">Update</a>
3	Excavation	2025-07-01 to 2025-07-31	Tony Loader	Email: tony.loader@buildEase.com Phone: 70/367890	Tony Loader	No materials assigned to this step

[f](#) [t](#) [in](#)

Go To Dashboard Maria Abdo ▾ Browse Professionals Give Your Feedback

Lebanon +961 81 111 000

## BuildEase

Project name: House construction 1

### Professionals & Materials

#	Step Name	Dates	Professional	Professional Contact	update professional	Update Materials Used
1	Land Surveying	2025-05-01 to 2025-05-25	James Mapper	Email: james.mapper@buildEase.com Phone: 71/234367	James Mapper ▾ <a href="#">Update Professional</a>	1. GPS Survey Receiver... ▾ Quantity: 5 Total: \$75.00 <a href="#">Update</a> GPS Survey Receiver (Land Surveying) - \$2600 2. Survey Tripod (Land Surveying) - \$150 Total: \$10,400.00 <a href="#">Update</a> Total Station (Land Surveying) - \$3500
2	Civil Engineering	2025-05-31 to 2025-06-30	Ahida Mourad	Email: Ahidamourad@professional.buildEase Phone: 79/911222	Ahida Mourad ▾ <a href="#">Update Professional</a>	1. Structural Steel Bea... ▾ Quantity: 3 Total: \$600.00 <a href="#">Update</a> 2. AutoCAD Software (...) ▾ Quantity: 2 Total: \$300.00 <a href="#">Update</a>
3	Excavation	2025-07-01 to 2025-07-31	Tony Loader	Email: tony.loader@buildEase.com Phone: 70/367890	Tony Loader ▾ <a href="#">Update Professional</a>	No materials assigned to this step

[f](#) [t](#) [in](#)

Go To Dashboard Maria Abdo ▾ Browse Professionals Give Your Feedback

Lebanon +961 81 111 000

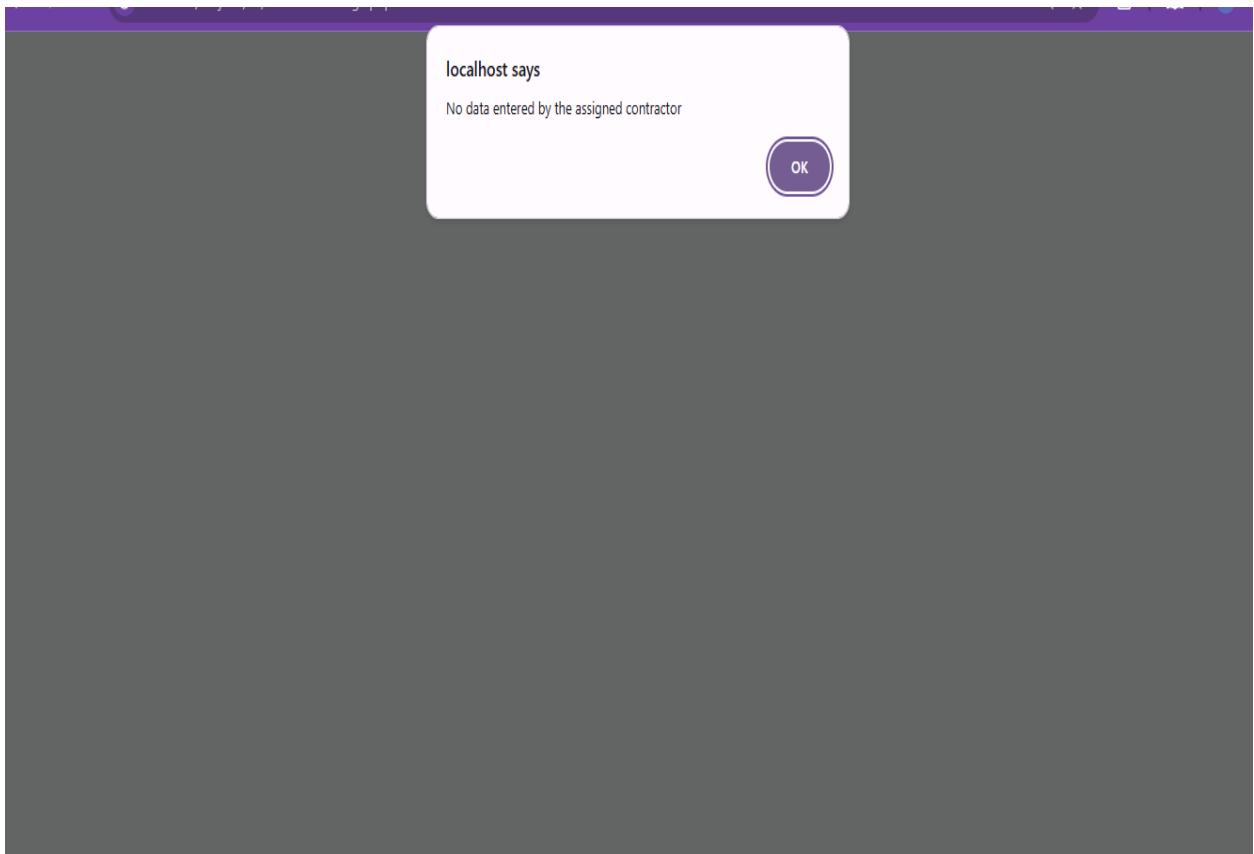
## BuildEase

Project name: House construction 1

### Professionals & Materials

#	Step Name	Dates	Professional	Professional Contact	update professional	Update Materials Used
1	Land Surveying	2025-05-01 to 2025-05-25	James Mapper	Email: james.mapper@buildEase.com Phone: 71/234367	James Mapper ▾ <a href="#">Update Professional</a>	1. Survey Tripod (lan...) ▾ Quantity: 5 Total: \$75.00 <a href="#">Update</a> 2. GPS Survey Receiver... ▾ Quantity: 4 Total: \$10,400.00 <a href="#">Update</a>
2	Civil Engineering	2025-05-31 to 2025-06-30	Ahida Mourad	Email: Ahidamourad@professional.buildEase Phone: 79/911222	Ahida Mourad ▾ <a href="#">Update Professional</a>	1. Structural Steel Bea... ▾ Quantity: 3 Total: \$600.00 <a href="#">Update</a> 2. AutoCAD Software (...) ▾ Quantity: 2 Total: \$300.00 <a href="#">Update</a>
3	Excavation	2025-07-01 to 2025-07-31	Tony Loader	Email: tony.loader@buildEase.com Phone: 70/367890	Tony Loader ▾ <a href="#">Update Professional</a>	No materials assigned to this step

4.6) In case contractor does not assign yet **accepted project details**, home owner cannot view details.



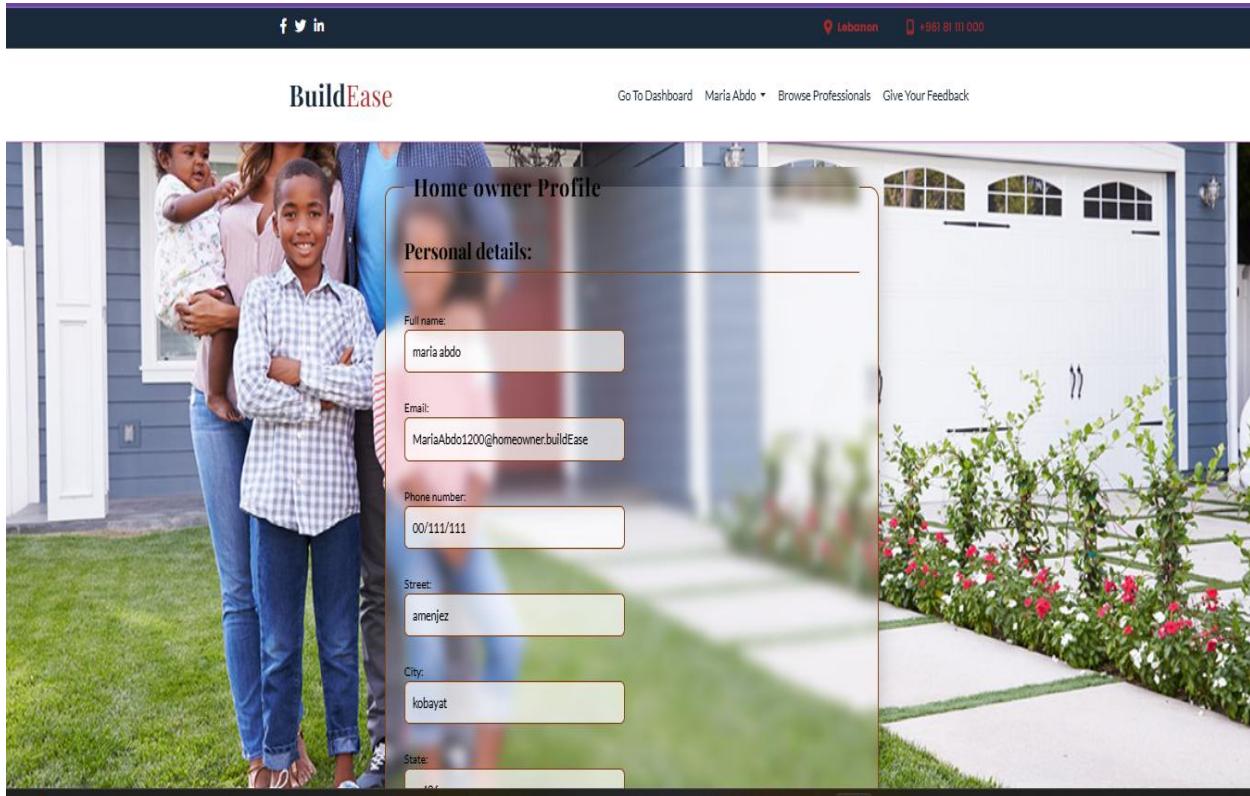
## 4.7) Reassignment of contractor for rejected projects by browsing contractors cv details.

The screenshot shows the BuildEase platform. On the left, there is a sidebar with project details: Project Name (House construction), Budget (\$ 730,999,363), Start Date (05/23/2025), and Address (an lakeet/akkar/nort). Below this is a 'Select New Contractor' dropdown menu. The main area displays a 'Curriculum Vitae' for a contractor. The CV includes sections for Education (Diploma in Construction Management or related field, Technical Institute of Construction, Graduated: 2015), Skills (Knowledge of Building Codes & Permits, Team Supervision & Labor Management, Material Procurement & Logistics, Client Communication & Reporting, Health & Safety Compliance), Experiences (Site Manager / Assistant Contractor at EcoBuild Projects | Jun 2015 – Dec 2018, Kholayat, Lebanon), and a summary of responsibilities. A 'Reassign Contractor' button is located at the bottom of the CV section.

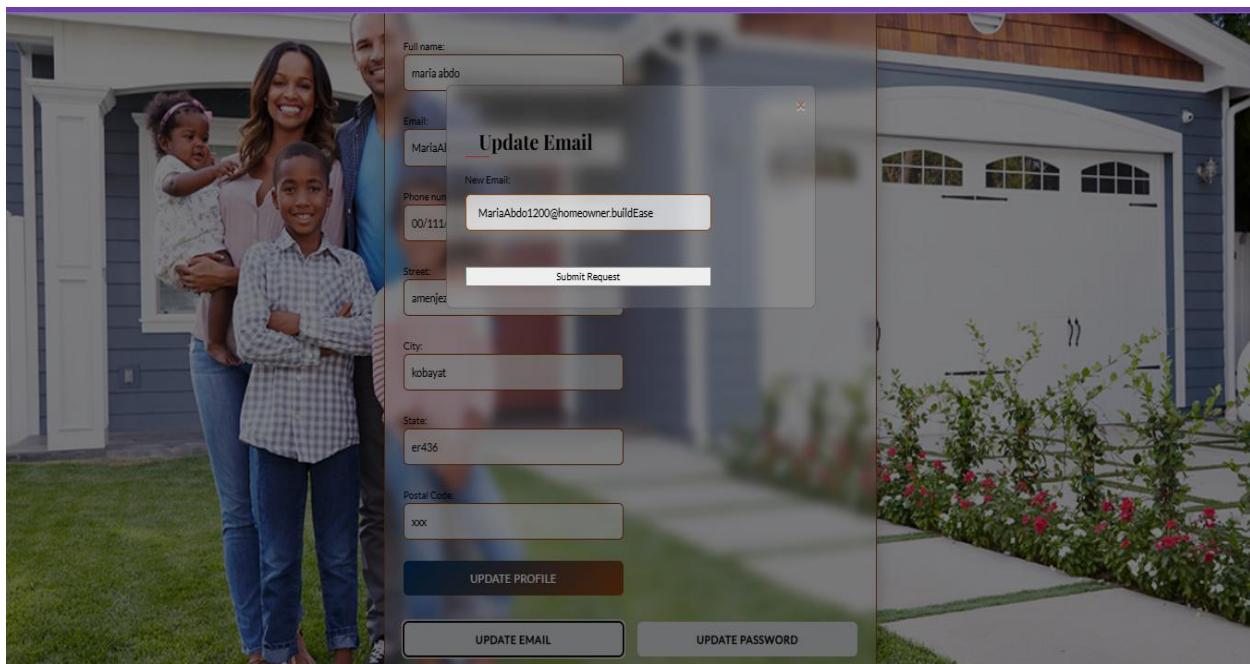
### Reassign Contractor

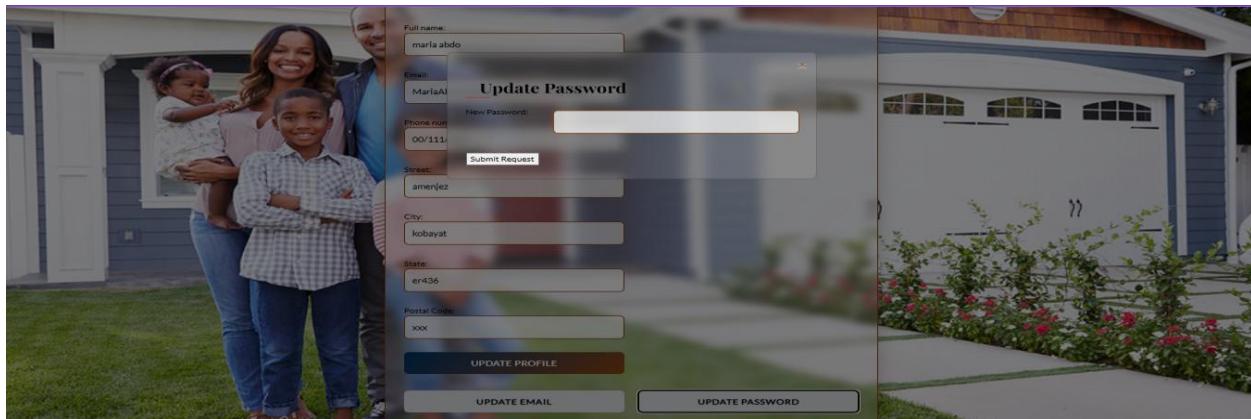
This screenshot shows the 'Reassign Contractor' form. It features a dropdown menu labeled 'Project Name' with 'House construction' selected. Below the dropdown is a list of contractor names and their email addresses: rana abdo (ranaabdo09@contractor.buildEase), Etien Karam (EtienKaram31@contractor.buildEase), Clara Tannous (ClaraTannous3499@contractor.buildEase), Antoinette Moussa (AntoinetteMoussa908@contractor.buildEase), Michel Hanna (MichelHanna67@contractor.buildEase), Youssef Abboud (YoussefAbboud9968@contractor.buildEase), Katrina Salloum (KatrinaSalloum000@contractor.buildEase), Heaven Daher (HeavenDaher3400@contractor.buildEase), and Samaher Hanna (SamaherHanna31@contractor.buildEase). A 'View CV' button is located next to the dropdown. At the bottom is a large yellow 'Reassign Contractor' button.

## 4.8) Home owner can update profile .



### 4.8.1) Home owner can send requests for email or password change to the admin.





## 4.9) Home owner can browse professionals details.



**Browse Professionals**

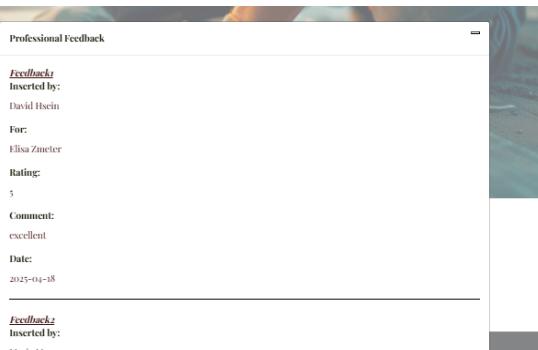
#	Full Name	Contact	Area of Work	Price	Actions
1	Elisa Zmeler	Phone number: 00/222 888 Email: ElisaZmeler2991891@professional.buildease	Civil Engineering	50 (50)	<button>Check Feedback</button> <button>View CV</button>
2	Grg Antn	Phone number: 00/222 888 Email: GrgAntn21@professional.buildease	Civil Engineering	Not set yet	<button>Check Feedback</button> <button>View CV</button>
3	Habib Karami	Phone number: 00/11/11 Email: HabibKaramy@professional.buildease	Excavation	Not set yet	<button>Check Feedback</button> <button>View CV</button>
4	Samar Macherky	Phone number: 00/11/11 Email: SamarMacherky@professional.buildease	plastering	Not set yet	<button>Check Feedback</button> <button>View CV</button>
5	Manal Moussa	Phone number: 00/11/11 Email: ManalMoussa2@professional.buildease	Land Surveying	Not set yet	<button>Check Feedback</button> <button>View CV</button>

### 4.9.1) He can browse professionals cv details.



#	Full Name	Contact				Actions
1	Elisa Zmeter	Phone number: 00 222 888 Email: Elisa.zmeter29948494831@professional.buildEase	Civil Engineering	50 (50)		<button>Check Feedback</button> <button>View CV</button>
2	Grg Antn	Phone number: 00 222 888 Email: GrgAntn219@professional.buildEase	Civil Engineering	Not set yet		<button>Check Feedback</button> <button>View CV</button>
3	Habib Karam	Phone number: 00 111 111 Email: HabibKaram111@professional.buildEase	Excavation	Not set yet		<button>Check Feedback</button> <button>View CV</button>
4	Samar Macherky	Phone number: 00 111 111 Email: SamarMacherky1@professional.buildEase	plastering	Not set yet		<button>Check Feedback</button> <button>View CV</button>
5	Manal Moussa	Phone number: 00 111 111 Email: ManalMoussaz1@professional.buildEase	Land Surveying	Not set yet		<button>Check Feedback</button> <button>View CV</button>

### 4.9.2) He can browse other home owners feedback for desired professionals.



#	Full Name	Contact			Actions
1	Elisa Zmeter	Phone number: 00 222 888 Email: Elisa.zmeter29948494831@professional.buildEase	<b>Feedback:</b> Inserted by: David Hsein  <b>For:</b> Elisa Zmeter <b>Rating:</b> 5  <b>Comment:</b> excellent  <b>Date:</b> 2025-04-18		<button>Check Feedback</button> <button>View CV</button>
2	Grg Antn	Phone number: 00 222 888 Email: GrgAntn219@professional.buildEase	<b>Feedback:</b> Inserted by: Maria Moussa  <b>For:</b> Elisa Zmeter <b>Rating:</b> 1  <b>Comment:</b> not good at all  <b>Date:</b> 2025-04-18		<button>Check Feedback</button> <button>View CV</button>
3	Habib Karam	Phone number: 00 111 111 Email: HabibKaram111@professional.buildEase			<button>Check Feedback</button> <button>View CV</button>
4	Samar Macherky	Phone number: 00 111 111 Email: SamarMacherky1@professional.buildEase			<button>Check Feedback</button> <button>View CV</button>
5	Manal Moussa	Phone number: 00 111 111 Email: ManalMoussaz1@professional.buildEase			<button>Check Feedback</button> <button>View CV</button>

## 4.9.3)Filter professionals:



### Browse Professionals

**Filter** ▾

#	Name	Contact	Area of Work	Price	Actions	
1	Elisa Zmeter	Phone number: 00 111 111 Email: ElisaZmeter299484831@professional.buildEase	Civil Engineering	50 (50)	<a href="#">Check Feedback</a>	<a href="#">View CV</a>
2	Grg Antn	Phone number: 00 111 111 Email: GrgAntn@professional.buildEase	Civil Engineering	Not set yet	<a href="#">Check Feedback</a>	<a href="#">View CV</a>
3	Habib Karam	Phone number: 00 111 111 Email: HabibKaram1@professional.buildEase	Excavation	Not set yet	<a href="#">Check Feedback</a>	<a href="#">View CV</a>
4	Samar Macherky	Phone number: 00 111 111 Email: SamarMacherky@professional.buildEase	Plastering	Not set yet	<a href="#">Check Feedback</a>	<a href="#">View CV</a>
5	Manal Moussa	Phone number: 00 111 111 Email: ManalMoussa1@professional.buildEase	Land Surveying	Not set yet	<a href="#">Check Feedback</a>	<a href="#">View CV</a>
6	Karl Azar	Phone number: 00 111 111 Email: KarlAzar33@professional.buildEase	Tiling	Not set yet	<a href="#">Check Feedback</a>	<a href="#">View CV</a>
7	Malek Jomaa	Phone number: 76 891 467 Email: MalekJomaa156@professional.buildEase	Civil Engineering	Not set yet	<a href="#">Check Feedback</a>	<a href="#">View CV</a>

### By rating:

[f](#) [t](#) [in](#)

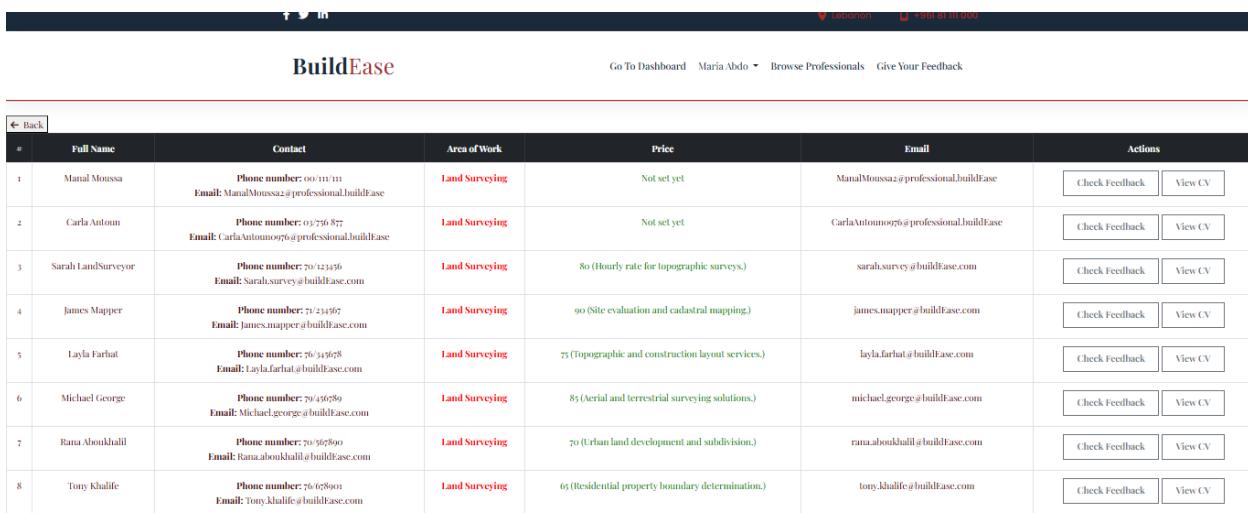
Lebanon +961 81 10 000

[Go To Dashboard](#) [MariaAbdo](#) ▾ [Browse Professionals](#) [Give Your Feedback](#)

**BuildEase**

#	Full Name	Contact	Area of Work	Price	Rating(average)	Actions
1	Samar Macherky	Phone number: 00 111 111 Email: SamarMacherky@professional.buildEase	plastering	Not set yet	5	<a href="#">View CV</a>
2	Habib Karam	Phone number: 00 111 111 Email: HabibKaram1@professional.buildEase	Excavation	Not set yet	4.5	<a href="#">View CV</a>
3	Elisa Zmeter	Phone number: 00 222 888 Email: ElisaZmeter299484831@professional.buildEase	Civil Engineering	50 (50)	3	<a href="#">View CV</a>
4	Malek Jomaa	Phone number: 76 891 467 Email: MalekJomaa156@professional.buildEase	Civil Engineering	Not set yet	3	<a href="#">View CV</a>
5	Sasha Jomaa	Phone number: 76 891 499 Email: SashaJomaa362@professional.buildEase	Electrical Engineering	Not set yet	3	<a href="#">View CV</a>
6	Karl Azar	Phone number: 00 111 111 Email: KarlAzar33@professional.buildEase	Tiling	Not set yet	2	<a href="#">View CV</a>
7	Carla Antoun	Phone number: 03 756 877 Email: CarlaAntoun978@professional.buildEase	Land Surveying	Not set yet	1	<a href="#">View CV</a>
8	Manal Moussa	Phone number: 00 111 111 Email: ManalMoussa12@professional.buildEase	Land Surveying	Not set yet	1	<a href="#">View CV</a>

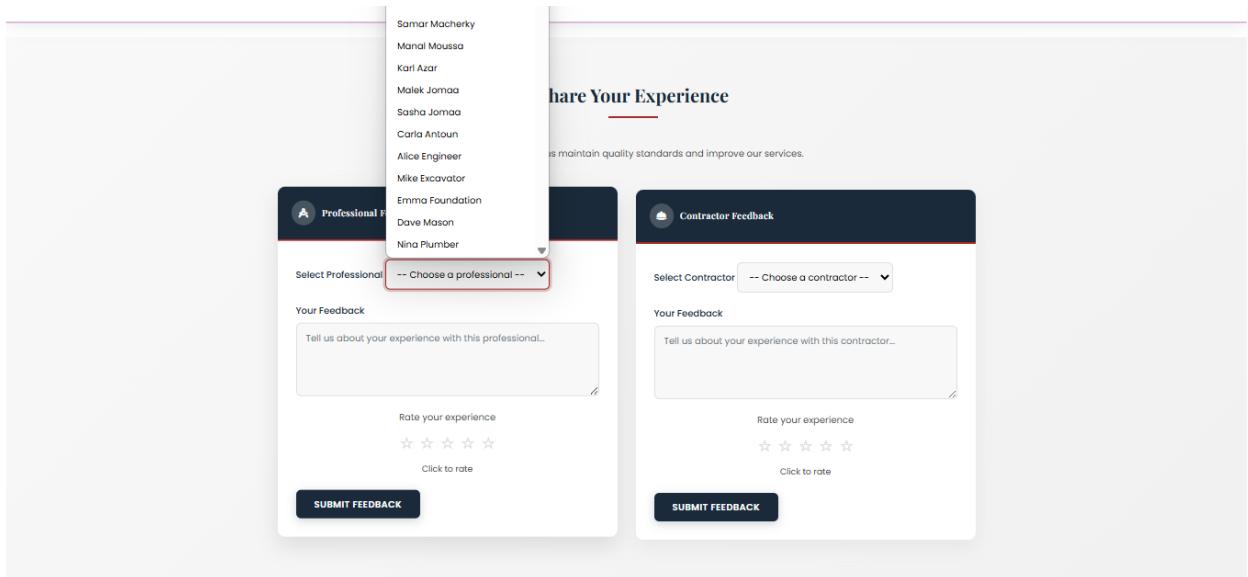
## By area of work:



The screenshot shows a table listing professionals categorized by their area of work. The columns include: #, Full Name, Contact, Area of Work, Price, Email, and Actions. The 'Area of Work' column shows categories like Land Surveying, and Land Surveying. The 'Actions' column contains 'Check Feedback' and 'View CV' buttons for each professional.

#	Full Name	Contact	Area of Work	Price	Email	Actions
1	Manal Moussa	Phone number: 00 311 311 Email: ManalMoussaz@professional.buildEase	Land Surveying	Not set yet	ManalMoussaz@professional.buildEase	<button>Check Feedback</button> <button>View CV</button>
2	Carla Antoun	Phone number: 03 776 877 Email: CarlaAntoun0976@professional.buildEase	Land Surveying	Not set yet	CarlaAntoun0976@professional.buildEase	<button>Check Feedback</button> <button>View CV</button>
3	Sarah LandSurveyor	Phone number: 70 123456 Email: SarahSurvey@buildEase.com	Land Surveying	80 (Hourly rate for topographic surveys.)	sarah.survey@buildEase.com	<button>Check Feedback</button> <button>View CV</button>
4	James Mapper	Phone number: 71 23497 Email: James.Mapper@buildEase.com	Land Surveying	90 (Site evaluation and cadastral mapping.)	james.mapper@buildEase.com	<button>Check Feedback</button> <button>View CV</button>
5	Layla Farhat	Phone number: 76 345678 Email: Layla.Farhat@buildEase.com	Land Surveying	75 (Topographic and construction layout services.)	layla.farhat@buildEase.com	<button>Check Feedback</button> <button>View CV</button>
6	Michael George	Phone number: 79 456789 Email: Michael.George@buildEase.com	Land Surveying	85 (Aerial and terrestrial surveying solutions.)	michael.george@buildEase.com	<button>Check Feedback</button> <button>View CV</button>
7	Rana Abou Khalil	Phone number: 70 967890 Email: Rana.aboukhalil@buildEase.com	Land Surveying	70 (Urban land development and subdivision.)	rana.aboukhalil@buildEase.com	<button>Check Feedback</button> <button>View CV</button>
8	Tony Khalife	Phone number: 76 678900 Email: Tony.Khalife@buildEase.com	Land Surveying	65 (Residential property boundary determination.)	tony.khalife@buildEase.com	<button>Check Feedback</button> <button>View CV</button>

## 4.10) He can give feedbacks for contractors and professionals.



The screenshot shows two feedback forms side-by-side. The left form is for 'Professional Feedback' and the right form is for 'Contractor Feedback'. Both forms include dropdown menus for selecting a professional or contractor, text areas for 'Your Feedback', rating scales from 1 to 5 stars, and a 'SUBMIT FEEDBACK' button.

## 5)Check project cost:

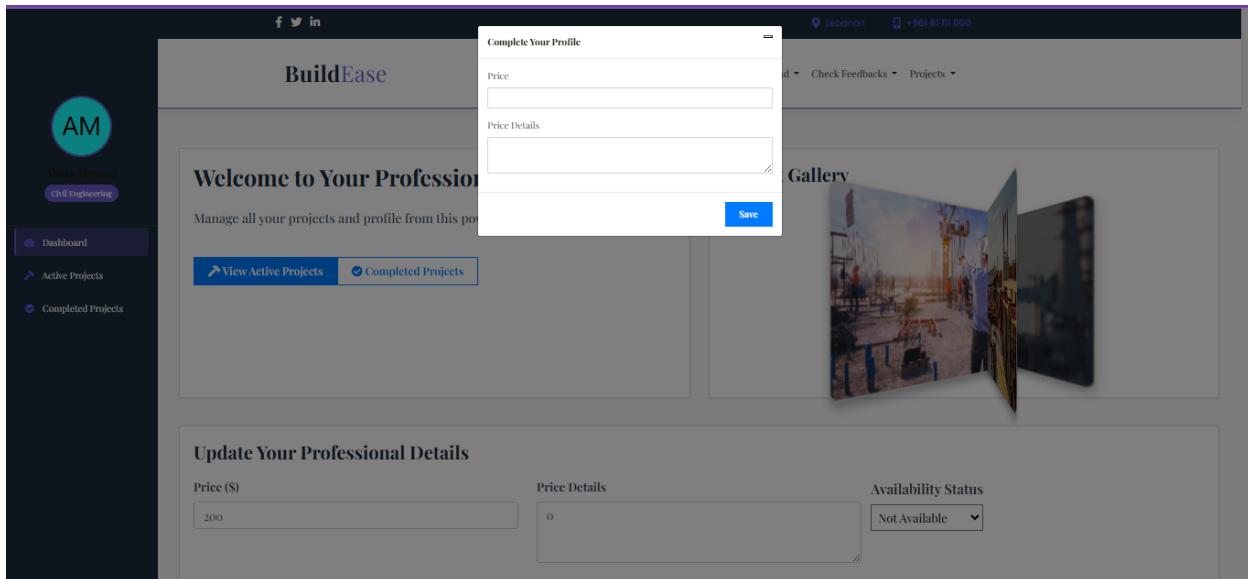
The screenshot shows the 'Project Cost Summary' page for a 'House construction' project. At the top, there are two buttons: a red 'Update Project Details' button and a green 'Check Project Cost' button. The main content area is titled 'Project Cost Summary' and includes four summary cards:

- Project Budget:** \$9,000.00 (Total allocated budget for the project)
- Final Cost:** \$0.00 (Actual cost of the completed project)
- Contractor Price:** \$2,000.00 (Price requested by the contractor)
- Website Commission:** \$0.00 (Commission fee for the platform)

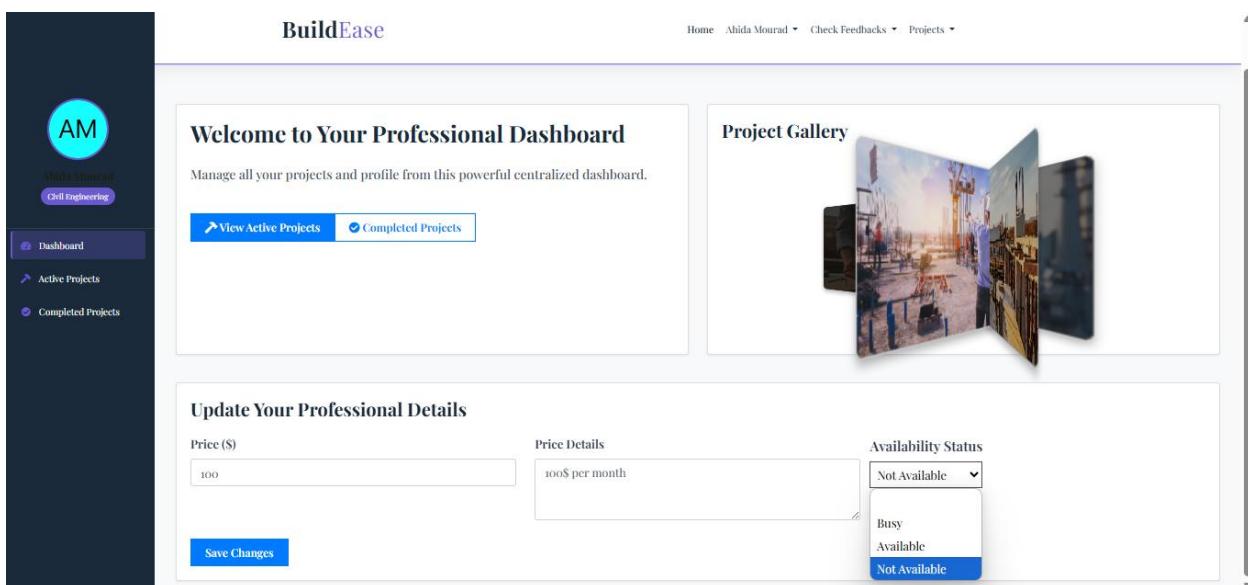
Below these cards, a section titled 'Budget Status' displays a green checkmark and the message '\$9,000.00 Under Budget'. It also states, 'Great news! Your project came in under budget by \$9,000.00.' A progress bar at the bottom indicates 'Budget Utilization' at 0.0%, with a value of '\$0' and a total budget of '\$9,000.00'.

## 5)Professional dashboard:

5.1)He should enters his price details:



5.2)He can update his availability status and price details:



## 5.3) He can update his profile and cv details:

The screenshot shows a user profile page for 'Ahida Mourad' on the BuildEase platform. The background features a construction site with concrete structures and wooden formwork under a clear sky.

**Professional Profile:**

**Personal details:**

- Full name: Ahida Mourad
- Email: Ahidamourad1@professional.buildEase
- Age: 25
- Phone number: 798911222
- Street: 87 Road
- City: Byblos
- State: Lebanon
- Postal Code: 7890

**cv details:**

**Experiences:**  
Coordinated 10+ subcontractors across plumbing, electrical, tiling, and carpentry services.  
Reduced average project delivery time by 12% through optimized scheduling and materials planning.

**Languages:**  
Arabic, French, Spanish, German

**Certifications:**  
Certified Building Contractor – Local Authority License #123456  
OSHA Safety Certification.

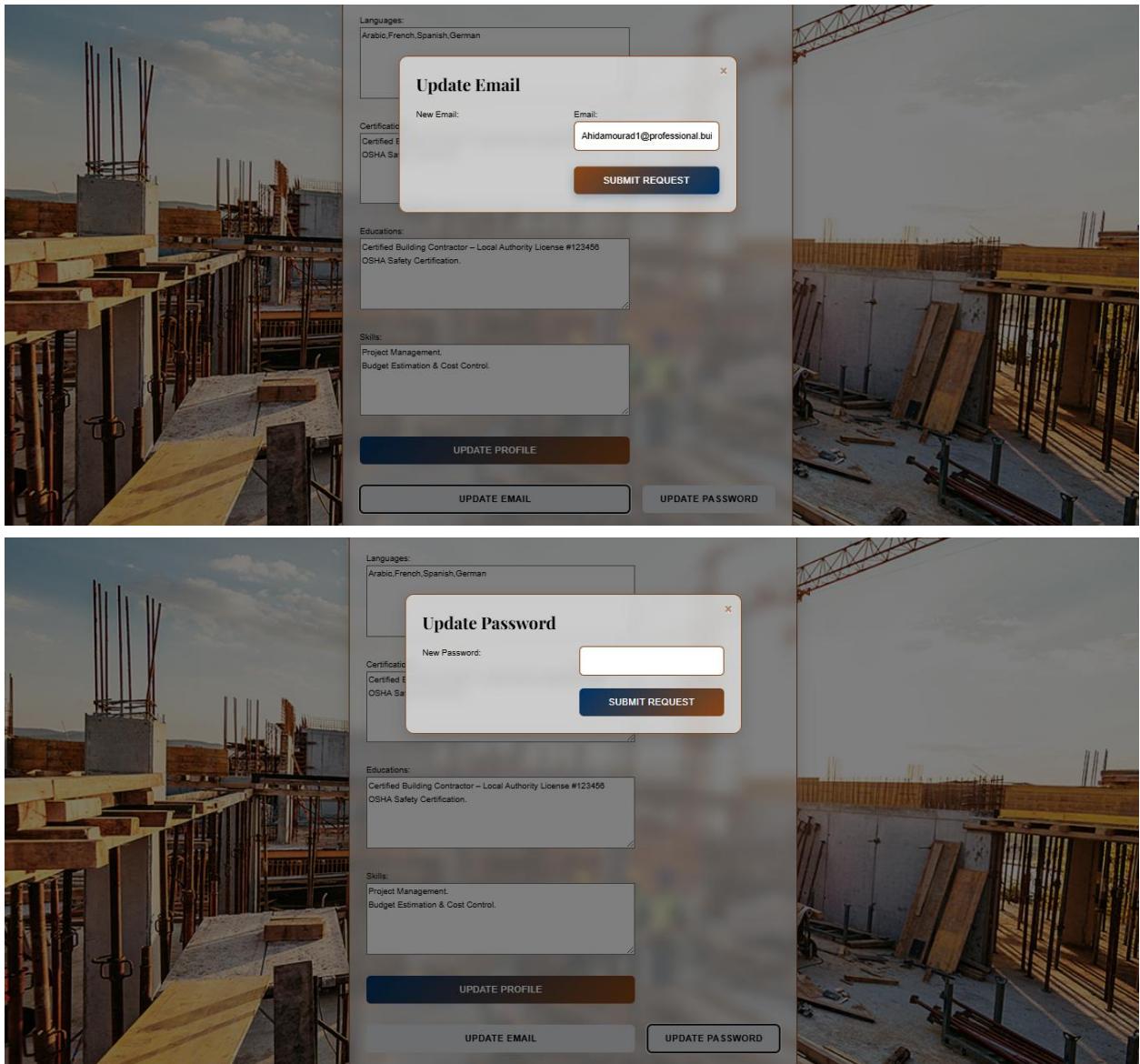
**Education:**  
Certified Building Contractor – Local Authority License #123456  
OSHA Safety Certification.

**Skills:**  
Project Management,  
Budget Estimation & Cost Control.

**Buttons:**

- UPDATE PROFILE (in the main profile area)
- UPDATE EMAIL (in the cv details area)
- UPDATE PASSWORD (in the cv details area)

### 5.3.1) He can send email and password change requests to admin:



## 5.4) He can browse contractors feedbacks:

The screenshot shows a section titled "Contractors feedbacks" with a subtitle "Feedbacks from Contractors who worked with Elisa Zmeter". It displays three reviews:

- Katrina Salloum**: ★★★★☆, excellent, April 18, 2025
- Etien Karam**: ★★★★☆, amazing, April 18, 2025
- Clara Tannous**: ★★★★☆, very good, April 18, 2025

## 5.5) He can browse home owners feedbacks:

The screenshot shows a section titled "Client Feedback" with a subtitle "Reviews from homeowners who have worked with Elisa Zmeter". It displays two reviews:

- David Hsein**: ★★★★☆, excellent, April 18, 2025
- Maria Moussa**: ★★★★☆, not good at all, April 18, 2025

## 5.6) active project:

The screenshot shows the BuildEase platform interface. At the top, there is a navigation bar with links for Home, Ahida Mourad, Check feedbacks, and Projects. The main content area is titled "Active Projects" and displays a single project card for "House construction 1". The project card includes the following details:

- Contractor:** Etien Karam
- Location:** andaket, akkar, north
- Start Date:** Dec 27, 2025
- Budget:** \$234,566,000.00
- Steps:** Civil Engineering (status: In progress)
- Started:** 2025-12-27
- View Details** button

## 5.7) completed project:

The screenshot shows the BuildEase platform interface. At the top, there is a navigation bar with links for Home, Ahida Mourad, Check feedbacks, and Projects. The main content area is titled "Completed Projects" and displays a single project card for "House construction 1". The project card includes the following details:

- Homeowner:** maria abdo  
oo/mi/mi
- Location:** andaket, akkar, north
- Steps Completed:** Civil Engineering
- Started:** 2025-12-27
- Last Completed Step:** 2025-05-28
- View Details** button

## 5.8) pending project:

The screenshot shows the 'Pending Projects' section of the BuildEase application. At the top, there is a navigation bar with links for Home, Ahida Mourad, Check feedbacks, and Projects. The main title 'Pending Projects' is displayed in bold. Below the title, a message says 'Here are the projects you will work on'. A single project card is shown for 'House construction', which is marked as 'Pending'. The project details include:

- Contractor: Etien Karam
- Location: Katlibeh, kobayat, akkar
- Start Date: Jun 06, 2025
- Budget: \$9,000.00
- Step: Civil Engineering (Pending)
- Started: 2025-06-06

A 'View Details' button is located at the bottom of the project card.

## 5.9) view project details:

The screenshot shows the 'Project Management' page for the 'House construction 1' project. At the top, there is a back-link 'Back to Dashboard'. The project title 'House construction 1' is displayed. The page is divided into two main sections: 'Project Details' and 'Team Information'.

**Project Details**

- Status: completed
- Step: Civil Engineering
- Date Range:  
Start: 2025-05-15  
End: 2025-05-28

**Team Information**

- Contractor: Etien Karam
- Homeowner: maria abdo

## 5.10) cost details:

**Step Cost Calculation**

Estimated Materials Cost	\$8,160.00
Unused Materials Cost	-\$2,600.00
Actual Materials Cost	\$5,560.00
Labor Cost	\$0.00
Total Cost	<b>\$5,560.00</b>

**Info:** Labor cost is calculated as: **Exact Price × Work Details Value**  
Work details value is extracted as integer from the description text.

## 5.11) enter worked details:

**Work Details and Pricing**

Work Details  
150

Exact Price (\$)  
4

Based on your calculation: \$6,160.00

**⚠ Please ensure your price reflects the actual work and materials used.**

**Update Details**

## 5.12) update step status:

Update Step Status

New Status

Completed

## 5.13) update step images:

Upload Step Images

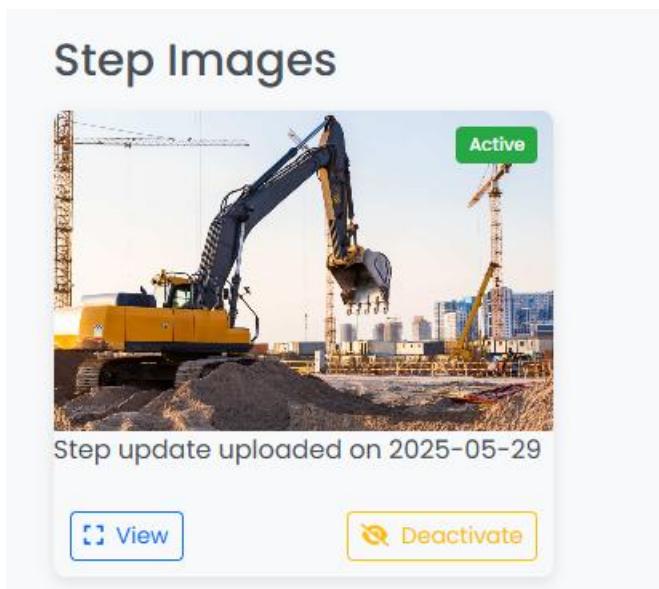
Select Image

Choose File No file chosen

Max file size: 5MB. Supported formats: JPG, PNG, GIF.

## 5.14) view step images:

Where he can deactivate



## 5.15) view material details:

Materials Used in This Step							
Material	Category	Price	Quantity	Unused Quantity	Used Quantity	Feedback	Actions
GPS Survey Receiver	Land Surveying	\$2,600.00 each	3	1	2	ok	 Edit
Structural Steel Beam	Civil Engineering	\$120.00 meter	3	0	3	good	 Edit

## 5.16) edit material details:

### Edit Material

Material  
GPS Survey Receiver

Total Quantity  
3

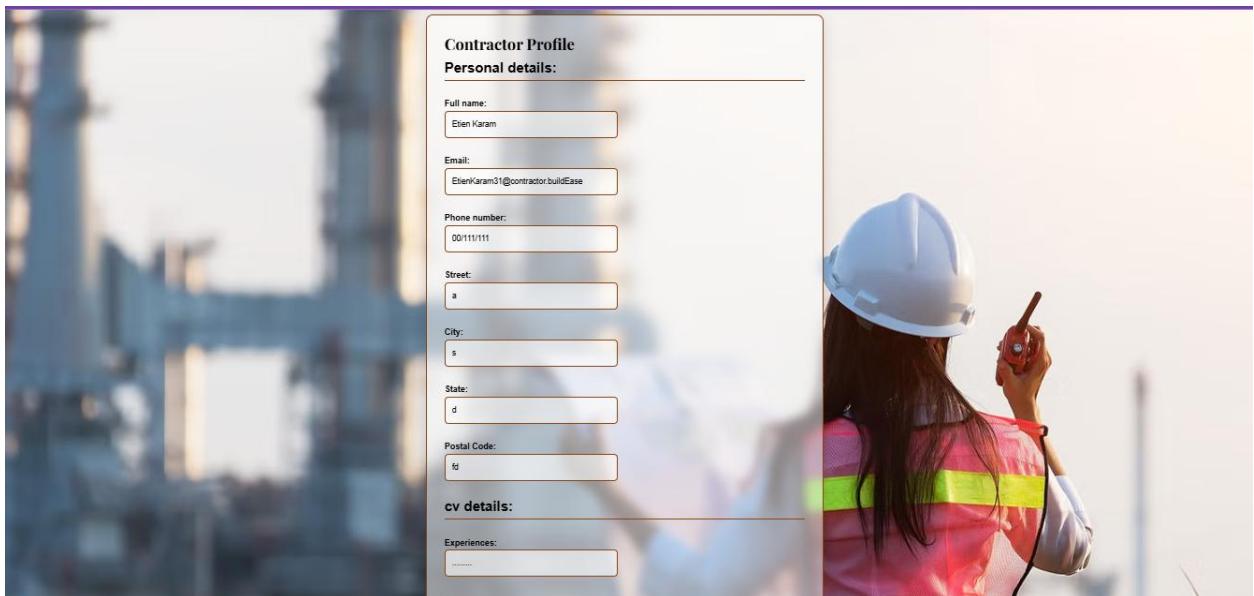
Unused Quantity  
1

Feedback  
ok

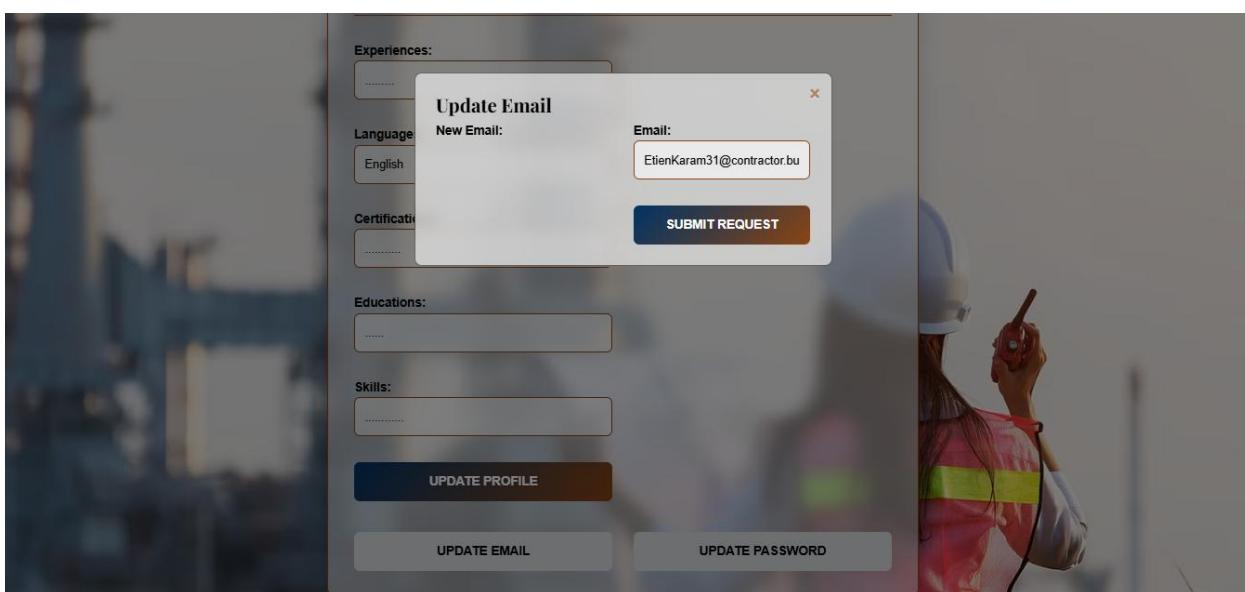
Cancel Save Changes

## 6)Contractor Dashboard:

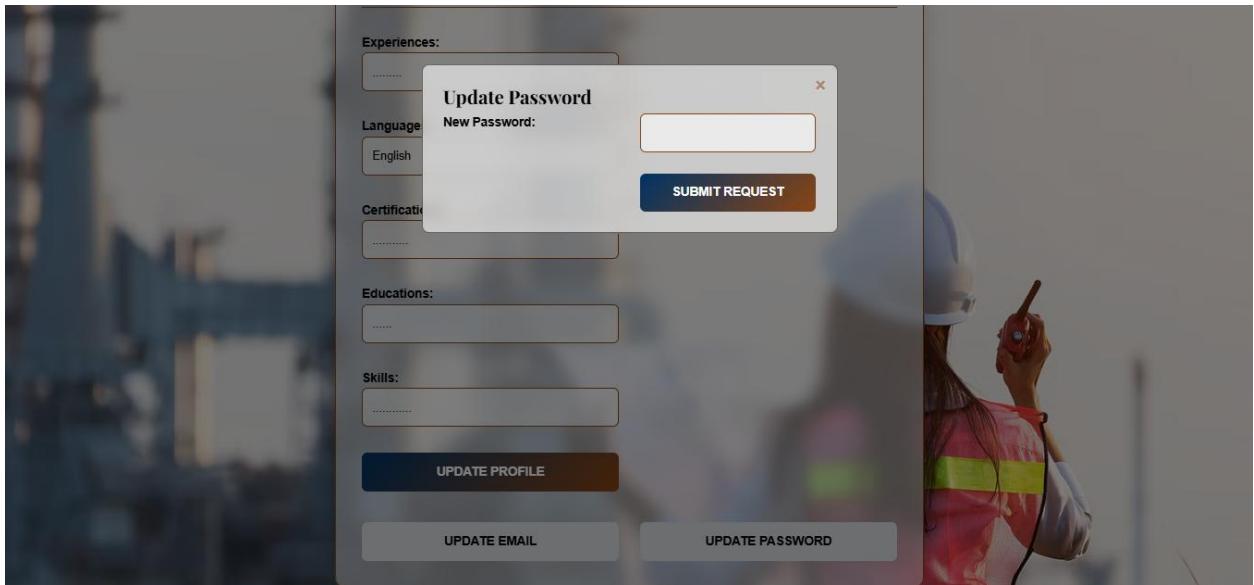
### 6.1)update his profile and cv details:



### 6.2)Sends email change request for admins:



## 6.3) He can send password change request for admins:



## 6.4) Dashboard:

A screenshot of the "Contractor Dashboard" from the BuildEase application. The dashboard has a dark sidebar on the left with a user profile (EK, Etien Karam, Professional Contractor) and navigation links for "Dashboard", "Active Projects", "Pending Projects", "Completed Projects", and "Logout". The main area is titled "Contractor Dashboard" and features three colored boxes: blue for "Active Projects" (6), yellow for "Pending Projects" (2), and green for "Completed Projects" (1). Below these are sections for "Recent Activity" and "Upcoming Work". The "Recent Activity" section lists three items: "House construction" (Active, currently working on it), "house construction" (Pending, awaiting approval), and "house construction" (Completed, done). The "Upcoming Work" section is currently empty.

## 6.4.1) His active project:

**Active Projects**

#	Project Name	Homeowner	Location	Start Date	Duration	Status	Actions
1	House construction	maria abdo 00/111/111	kattabeh kobayat, akkar 29eu	2025-06-06		Active	<button>View</button>
2	House construction 1	maria abdo 00/111/111	andaket akkar, north 111	2025-12-27	8 weeks 2 days	Active	<button>View</button>
3	House construction 2	maria abdo 00/111/111	kattabeh kobayat, akkar 29eu	2025-06-06		Active	<button>View</button>
4	House construction	maria abdo 00/111/111	kattabeh kobayat, akkar 29eu	2025-06-06		Active	<button>View</button>
5	House construction 1	maria abdo 00/111/111	andaket akkar, north 111	2025-12-27		Active	<button>View</button>
6	House construction 2	maria abdo 00/111/111	kattabeh kobayat, akkar 29eu	2025-06-06		Active	<button>View</button>

## 6.4.2) His pending project:

Accept or reject

**Pending Projects**

#	Project Name	Homeowner	Location	Proposed Start	Duration	Status	Actions
1	house construction	maria abdo 00/111/111	andaket akkar, north 111	2025-05-29		Pending	<button>✓ Accept</button> <button>✗ Reject</button>
2	House construction	maria abdo 00/111/111	andaket akkar, north 111	2025-05-23		Pending	<button>✓ Accept</button> <button>✗ Reject</button>

## 6.4.3) His completed project:

The screenshot shows the BuildEase platform interface. The top navigation bar includes social media links (Facebook, Twitter, LinkedIn), a phone number (+961 81 111 000), and user account information (Etien Karam). The main content area is titled "Completed Projects". A table lists one project: "house construction" by homeowner "maria abdo" at "andaket akkar, north 111", started on "2025-05-29" and marked as "Completed". The sidebar on the left shows a profile picture for Etien Karam, his name, title ("Professional Contractor"), and a list of navigation items: Dashboard, Active Projects, Pending Projects, Completed Projects (which is selected and highlighted in blue), and Logout.

## 6.5) Project details:

The screenshot shows the BuildEase platform interface with a yellow "Dashboard" button in the sidebar. The main content area is titled "Project Overview" for a completed project. It features a large red progress bar indicating "100.0% \$56,249" completion. Other details include: Timeline Progress: 70% (Elapsed: 7 days / Estimated: 10 days); Duration: 7 days; Elapsed Time: 7 days; Budget: \$9,000.00; Cost: \$56,249.00; Status: Active; Start Date: 2025-06-06; Contractor: Etien Karam; Location: khalabeh, kobayat, akkar; Homeowner: maria abdo; Homeowner Phone: 00/111/111. To the right is a "Step Completion" section showing a donut chart with "0%" completion, 0 completed steps, and 17 total steps. The sidebar also lists My Profile, Feedbacks, and Logout.

## 6.5.1) standard steps:

Steps/Phases					
#	Step Name	Status	Details	Assigned Professional	Action
1	Land Surveying	In Progress	Boundary mapping and site analysis	Clarita Antoun (Land Surveying)	<button>View Details</button>
2	Civil Engineering	Pending	Home plan design based on survey	Ahida Mourad (Civil Engineering)	<button>View Details</button>
3	Excavation	Pending	Earth/rock removal for site preparation	Not assigned	<button>View Details</button>
4	Foundation & Column Construction	Pending	Laying foundation and erecting columns	Not assigned	<button>View Details</button>
5	Masonry	Pending	Laying concrete blocks or stones	Not assigned	<button>View Details</button>
6	Plastering	In Progress	Applying plaster to walls/ceilings	Samar Macherky (plastering)	<button>View Details</button>
7	Electrical Engineering	Pending	Design of electrical system	Not assigned	<button>View Details</button>
8	Electrician	Pending	Wiring and installations	Not assigned	<button>View Details</button>
9	Plumbing	Pending	Design of plumbing system	Not assigned	<button>View Details</button>
10	Plumber	Pending	Installation and repair of pipes/fixtures	Not assigned	<button>View Details</button>
11	Carpentry	Pending	Building and installing wooden frameworks	David Kamal (Carpentry)	<button>View Details</button>
12	Tiling	Pending	Installing tiles on surfaces	Amy Tiler (Tiling)	<button>View Details</button>
13	Interior Design	Pending	Color schemes and finishes	Not assigned	<button>View Details</button>
14	Painter	Pending	Applying paint and finishes	Not assigned	<button>View Details</button>

## 6.5.2) form to add custom step:

[+ Add Custom Step](#)

Step Name	<input type="text"/>
Details	<input type="text"/>
Assign Professional	Select Professional <input type="text"/>
<input style="background-color: #007bff; color: white; border: none; padding: 5px; width: fit-content;" type="button" value="Add Custom Step"/>	

## 6.5.3) custom step:

Where he deactivate or reactivate

12	Tiling	Pending	Installing tiles on surfaces	Amy Tiler (Tiling)	<button>View Details</button>
13	Interior Design	Pending	Color schemes and finishes	Not assigned	<button>View Details</button>
14	Painter	Pending	Applying paint and finishes	Not assigned	<button>View Details</button>
15	tese Custom	In Progress	test	Layla Heritage (Masonry)	<button>View Details</button> <button>Deactivate</button>
16	custom Custom	Pending	custom	Elisa Zmeter (Civil Engineering)	<button>View Details</button> <button>Deactivate</button>
17	humidity isolation2 Custom	Pending	humidity isolation2	Carla Antoun (Land Surveying)	<button>View Details</button> <button>Deactivate</button>

### Deactivated Steps

Step Name	Status	Details	Assigned Professional	Action
custommm	Deactivated	custommm	Malek Jomaa	<button>Reactivate</button>
humidity isolation	Deactivated	humidity isolation	Not assigned	<button>Reactivate</button>
ARMID	Deactivated	ARMID	Not assigned	<button>Reactivate</button>
sound insulation	Deactivated	to isolate the sound	Not assigned	<button>Reactivate</button>

## 6.5.4) project materials:

Materials			
Material	Price	Step	Quantity
GPS Survey Receiver	\$2,600.00	Land Surveying	19
AutoCAD Software	\$1,600.00	Civil Engineering	5
Concrete Mix Design	\$250.00	Civil Engineering	3
Survey Tripod	\$150.00	Land Surveying	9
Structural Steel Beam	\$120.00	Civil Engineering	5
Cement Plaster	\$8.00	Land Surveying	3
Gypsum Plaster	\$10.00	Plastering	3
paint	\$15.00	Plastering	4
Survey Tripod	\$150.00	Plastering	3

## 6.5.5) project pictures:

Where he can add picture for the project

Material	Price	Step	Quantity
GPS Survey Receiver	\$2,600.00	Land Surveying	19
AutoCAD Software	\$1,600.00	Civil Engineering	5
Concrete Mix Design	\$250.00	Civil Engineering	3
Survey Tripod	\$150.00	Land Surveying	9
Structural Steel Beam	\$120.00	Civil Engineering	5
Cement Plaster	\$8.00	Land Surveying	3
Gypsum Plaster	\$10.00	Plastering	3
paint	\$15.00	Plastering	4
Survey Tripod	\$150.00	Plastering	3

**Project Pictures**

+ Add Picture

Select Picture (max 5MB)

Choose File No file chosen

Description

**Save Picture**

## 6.5.6) project pictures:

Where he can view project images

Material	Price	Step	Quantity
Structural Steel Beam	\$120.00	Civil Engineering	5
paint	\$15.00	Land Surveying	5
GPS Survey Receiver	\$2,600.00	Land Surveying	4
Survey Tripod	\$150.00	Civil Engineering	2

**Project Pictures**

+ Add Picture



about the project

## 6.6) add material:

Where he can add material to his library

**Material Management**

Project: House construction 1

[Material Library](#) [Assigned Materials](#)

**Add to Material Library**

Material Name	Category	
<input type="text"/>	<input type="text"/> Select category	
Unit Price (\$)	Supplier	Unit of Measure
<input type="text"/>	<input type="text"/>	<input type="text"/> e.g., kg, m, pieces
Description <input type="text"/>		
<b>Add to Library</b>		

## 6.7) material library:

**Material Management**

Project: House construction 1

[Add New Material](#) [Assigned Materials](#)

Search materials...

Category  
Select category

<b>paint</b> Painter <b>Price:</b> \$15.00  <input type="text"/> Select step  <input type="text"/> 1 <b>Assign to Step</b>	<b>GPS Survey Receiver</b> Land Surveying <b>Price:</b> \$2,600.00  <input type="text"/> Select step  <input type="text"/> 1 <b>Assign to Step</b>	<b>Survey Tripod</b> Land Surveying <b>Price:</b> \$150.00  <input type="text"/> Select step  <input type="text"/> 1 <b>Assign to Step</b>
---	---	---

## 6.7.1) view feedback for material:

The screenshot shows a material detail page for a "Structural Steel Beam". The material is categorized under "Civil Engineering" and has a price of \$120.00. A blue button labeled "View Feedback" is visible. Below it, a section titled "Previous Feedback:" contains the text "good". A dropdown menu labeled "Select step" shows the value "1". A yellow button labeled "Assign to Step" with a plus icon is at the bottom.

## 6.8) view assigned material:

Where he can edit or delete or mark unused

The screenshot shows a "Material Management" page for a project titled "House construction 1". It includes a "Material Library" and "Add New Material" button. The main table lists assigned materials across various steps:

Step	Material	Quantity	Unit Price	Total	Assigned Date	Actions
Step 2: Civil Engineering	Structural Steel Beam	5 (2 unused)	\$120.00	\$600.00	2025-05-16	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Mark Unused
Step 1: Land Surveying	paint	5	\$15.00	\$75.00	2025-05-25	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Mark Unused
Step 1: Land Surveying	GPS Survey Receiver	4	\$2,600.00	\$10,400.00	2025-05-25	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Mark Unused
Step 2: Civil Engineering	Survey Tripod	2	\$150.00	\$300.00	2025-05-25	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Mark Unused

## 6.8.1) edit assigned material:

**Edit Material Assignment**

Material Title	Category	
Structural Steel Beam	Civil Engineering	
Unit Price (\$)	Quantity	Unit of Measure
120	5	meter
Supplier		
SteelCo		
Description		
Support beam for structural integrity		

**Update Assignment** **Cancel** **Back**

## 6.8.2) mark unused material:

**Mark Materials as Unused**

Quantity to mark as unused  
1  
Maximum: 3

**Cancel** **Save**

Material	Quantity	Unit Price	Total
----------	----------	------------	-------

## 6.9) He can browse his contracts:

The screenshot shows the BuildEase web application interface. At the top, there are social media sharing icons (Facebook, Twitter, LinkedIn) and a phone number (+961 81 11 000). The main content area has a header "BuildEase". Below it, there are two separate boxes, each titled "Contract Details".

**Contract Details (Left Box):**

- Contract ID: 2
- Salary: \$100
- Start Date: 2025-04-01
- End Date: 2025-04-16
- Status: active
- Details: .....

Signature:

**Contract Details (Right Box):**

- Contract ID: 6
- Salary: \$500
- Start Date: 2025-05-16
- End Date: 2025-08-15
- Status: active
- Details: ....

Signature: Not signed yet [Sign Contract](#)

### 6.9.1) He can sign his contracts:

The screenshot shows a modal dialog box titled "Sign Here" overlaid on the BuildEase interface. The background is dimmed.

**Contract Details (Left Side of Modal):**

- Contract ID: 2
- Salary: \$100
- Start Date: 2025-04-01
- End Date: 2025-04-16
- Status: active
- Details: .....

Signature:

**Contract Details (Right Side of Modal):**

- Contract ID: 6
- Salary: \$500
- Start Date: 2025-05-16
- End Date: 2025-08-15
- Status: active
- Details: ....

Signature: Not signed yet [Sign Contract](#)

Buttons at the bottom of the modal: Clear (disabled), Save (highlighted in orange), Skip.

## 6.10)Browse professionals details:

#	Name	Contact	Area of Work	Feedback	CV
1	Elisa Zmeter	<b>Phone number:</b> 00/222 888 <b>Email:</b> ElisaZmeter29948494831@professional.buildEase	Civil Engineering	<button>Check Feedback</button>	<button>View CV</button>
2	Grg Antn	<b>Phone number:</b> 00/222 888 <b>Email:</b> Grgantn21@professional.buildEase	Civil Engineering	<button>Check Feedback</button>	<button>View CV</button>
3	Habib Karam	<b>Phone number:</b> 00/111/111 <b>Email:</b> HabibKaram3@professional.buildEase	Excavation	<button>Check Feedback</button>	<button>View CV</button>
4	Samar Macherky	<b>Phone number:</b> 00/111/111 <b>Email:</b> SamarMacherky@professional.buildEase	plastering	<button>Check Feedback</button>	<button>View CV</button>
5	Manal Moussa	<b>Phone number:</b> 00/111/111 <b>Email:</b> ManalMoussa2@professional.buildEase	Land Surveying	<button>Check Feedback</button>	<button>View CV</button>
6	Karl Azar	<b>Phone number:</b> 00/111/111	Tiling	<button>Check Feedback</button>	<button>View CV</button>

## 6.11)Filter professionals:

#	Name	Contact	Area of Work	Feedback	CV
1	Elisa Zmeter	<b>Phone number:</b> 00/222 888 <b>Email:</b> ElisaZmeter29948494831@professional.buildEase	Civil Engineering	<button>Check Feedback</button>	<button>View CV</button>
2	Grg Antn	<b>Phone number:</b> 00/222 888 <b>Email:</b> Grgantn21@professional.buildEase	Civil Engineering	<button>Check Feedback</button>	<button>View CV</button>
3	Habib Karam	<b>Phone number:</b> 00/111/111 <b>Email:</b> HabibKaram3@professional.buildEase	Excavation	<button>Check Feedback</button>	<button>View CV</button>
4	Samar Macherky	<b>Phone number:</b> 00/111/111 <b>Email:</b> SamarMacherky@professional.buildEase	plastering	<button>Check Feedback</button>	<button>View CV</button>
5	Manal Moussa	<b>Phone number:</b> 00/111/111 <b>Email:</b> ManalMoussa2@professional.buildEase	Land Surveying	<button>Check Feedback</button>	<button>View CV</button>
6	Karl Azar	<b>Phone number:</b> 00/111/111	Tiling	<button>Check Feedback</button>	<button>View CV</button>

## 6.11.1)By rating:

#	Full Name	Area of Work	Contact	Rating (Average)	Actions
1	Malek Jomaa	Civil Engineering	Phone number: 76/893 467 Email: MalekJomaa456@professional.buildEase	5.0000	<a href="#">View CV</a>
2	Elisa Zmeter	Civil Engineering	Phone number: 00/222 888 Email: ElisaZmeter29948494831@professional.buildEase	4.7500	<a href="#">View CV</a>
3	grg antn	Civil Engineering	Phone number: 00/222 888 Email: Grgantn21@professional.buildEase	3.0000	<a href="#">View CV</a>
4	Carla Antoun	Land Surveying	Phone number: 03/756 877 Email: CarlaAntoun0976@professional.buildEase	1.0000	<a href="#">View CV</a>

## 6.11.2)By area of work:

#	Full Name	Area of Work	Contact	Actions
1	Manal Moussa	Land Surveying	Phone number: 00/111/111 Email: ManalMoussa2@professional.buildEase	<a href="#">Check Feedback</a> <a href="#">View CV</a>
2	Carla Antoun	Land Surveying	Phone number: 03/756 877 Email: CarlaAntoun0976@professional.buildEase	<a href="#">Check Feedback</a> <a href="#">View CV</a>
3	Sarah LandSurveyor	Land Surveying	Phone number: 70/123456 Email: Sarah.survey@buildEase.com	<a href="#">Check Feedback</a> <a href="#">View CV</a>
4	James Mapper	Land Surveying	Phone number: 71/234567 Email: James.mapper@buildEase.com	<a href="#">Check Feedback</a> <a href="#">View CV</a>
5	Layla Farhat	Land Surveying	Phone number: 76/345678 Email: Layla.farhat@buildEase.com	<a href="#">Check Feedback</a> <a href="#">View CV</a>
6	Michael George	Land Surveying	Phone number: 79/456789 Email: Michael.george@buildEase.com	<a href="#">Check Feedback</a> <a href="#">View CV</a>
7	Rana Aboukhalil	Land Surveying	Phone number: 70/567890 Email: Rana.aboukhalil@buildEase.com	<a href="#">Check Feedback</a> <a href="#">View CV</a>
8	Tony Khalife	Land Surveying	Phone number: 76/678901	<a href="#">Check Feedback</a> <a href="#">View CV</a>

## 6.12) Check feedbacks from home owners:

The screenshot shows the BuildEase website's feedback section. At the top, there are navigation links: Go To Dashboard, Etien Karam, Contract, Browse Professionals, and Feedback. Below these, two buttons are visible: "Check Feedback" and "Give Feedback". The main content area is titled "FEEDBACK" and displays feedback from home owners who worked with Etien Karam. It includes two entries:

- maria abdo** (May 6, 2025) - Rating: ★★  
not bad
- maria abdo** (Apr 24, 2025) - Rating: ★  
sooo sooo badd he was the reason why my project took double of the period expected!!

At the bottom left of the screenshot, the URL "localhost/loujane/ex/C\_browsingFeedback.php" is visible.

## 6.13) Gives feedbacks for professionals:

The screenshot shows the BuildEase website's professional feedback form. The form is titled "Professional Feedback" and contains the following fields:

- Select Professional: A dropdown menu with the placeholder "-- Select a professional --".
- Your Feedback: A text area with the placeholder "Describe your experience working with this professional...".
- Rating: A row of five stars, each with a corresponding rating value (1, 2, 3, 4, 5).
- Submit Feedback: A dark blue button.

To the right of the form, there is a photograph of a person's hands working with wood on a workbench, surrounded by various tools like a saw and a level.

## 9. Conclusion

**BuildEase** has effectively tackled the complexities of home construction by offering a streamlined and user-friendly platform that connects homeowners with qualified professionals and contractors. Through features like step-by-step project management, professional selection with CV browsing, role-specific dashboards, and intelligent timeline estimation, **BuildEase** empowers users to plan, execute, and monitor every phase of their construction journey.

The platform caters to diverse construction needs, from land surveying and excavation to interior design and tiling, ensuring that each service is assigned to the right professional. The built-in project tracking and reassignment capabilities reduce delays and support dynamic adjustments, making the process flexible and efficient. Additionally, admin functionalities enhance platform oversight, enabling efficient user management, service control, and data-driven decision-making.

By simplifying complex workflows and promoting transparency, **BuildEase** not only reduces the burden on homeowners but also fosters collaboration and accountability among all stakeholders—ultimately contributing to a smoother, more reliable, and cost-effective house-building experience.



# 10. Future Considerations

To make **BuildEase** even more useful and user-friendly in the future, here are some ideas to improve the platform:

## 1. Add Online Payment

- Let users pay for services and materials directly through the website, step by step or in full.

## 2. Better User and Project Tracking

- Let admins and contractors sort and search projects by location, budget, or type.
- Find out which professionals or services are most used.

## 3. Project and Service Insights

- See which services are in high demand and which ones are not.
- Use this data to improve what the platform offers.

## 4. Automatic Charts and Reports

- Let users download reports for personal use or planning.

## 5. Mobile App for Site Updates

- Let professionals upload photos and mark completed steps.

## 6. Better Communication Tools

- Add messaging between homeowners, contractors, and professionals.
- Allow uploading documents like plans and permits to each project step.

## 7. Eco-Friendly Building Options

- Offer green material choices and energy-efficient designs.
- Show how a project affects the environment.