DEC
Digital Engineering Consultancy

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Outline

01
System Overview

02
Similar Apps

03
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04
System Analysis

05
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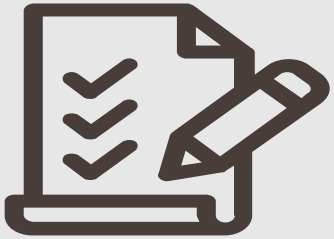
06
Conclusion

01
System Overview

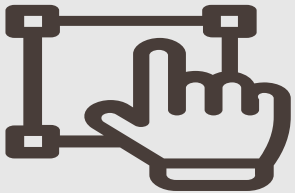
Problem statement

Credibility problems



Monitoring project progress

Marketing problems



Choosing consultation

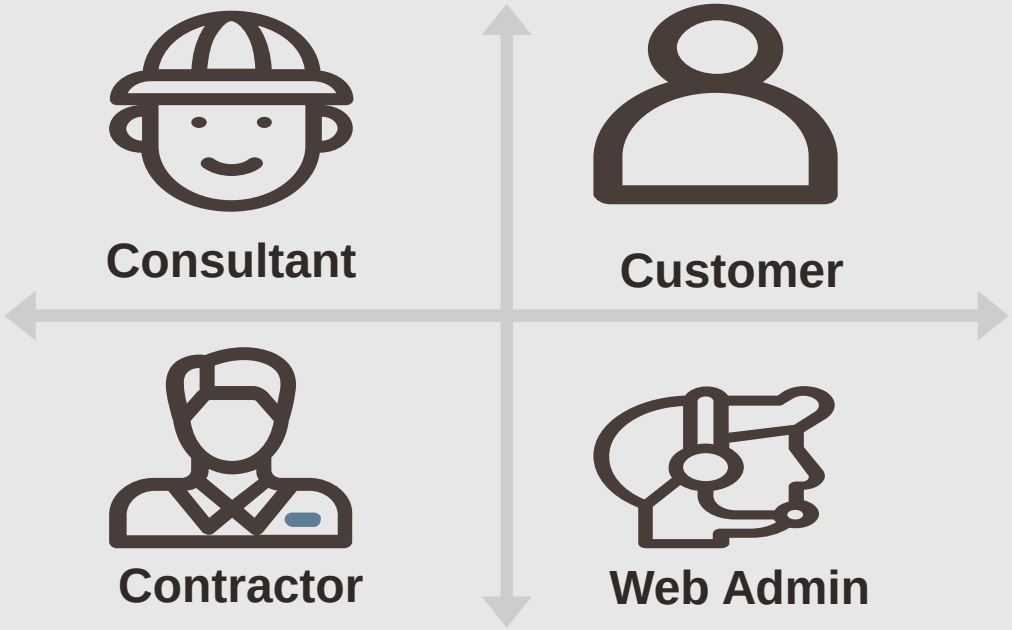
Geographical distance

Objectives

Follow thw project
Follow customers data
manage users
communication between companies and technical support staff
view old work templates
reduce time and effort

scheduling an appointment for a visit in the office or the project site.
Receiving requests for training in a specific center by new engineers.
Building the visitor's confidence

Stakeholders



02
Similar Apps

Overview on similar apps

Comparison between apps

System	Possibility to request a service (design or implementation of a project) online	Possibility to request an office appointment and determine date online	The ability to view the previous works of the offices	Possibility to communicate with the office	The possibility of evaluating the work of the office	Possibility to follow your own tasks progress in the office online
Rawafed	✓	×	✓	✓	×	×
Dora	×	×	×	✓	×	×
Al-Masah	✓	×	×	✓	×	×
Saudi Creativity Consulting Engineering	×	×	✓	✓	×	×
Basmat Al-Asala	×	×	×	✓	×	×
Proposed system	✓	✓	✓	✓	✓	✓

03
System Requirements

System Requirements

Hardware Requirements

- RAM (8GB)
- HUAWEI MATEBOOK D14
- hard disk (512 GB)
- Intel core i5
- Windows 10

Software Requirements

- Adobe XP
- Proto.io
- Visual paradigm
- PHP
- PHP storm
- MySQL
- XAMPP
- HTML
- CSS
- JS
- Bootstrap
- Notpad ++

04
System Analysis

Functional Requirements

Client:

- Sign Up
- Log in
- Browse old projects
- Request consultation
- View project progress
- Request appointment
- Add evaluation
- Browse available services
- Request service
- Log out

Functional Requirements

Consultant:

- Sign Up
- Log in
- Add new project
- Update project progress
- Update available dates
- View and response to appointments
- Log Out

Functional Requirements

Contractor

- Sign Up
- Log in
- Add new service
- View and response to service requests
- Log out

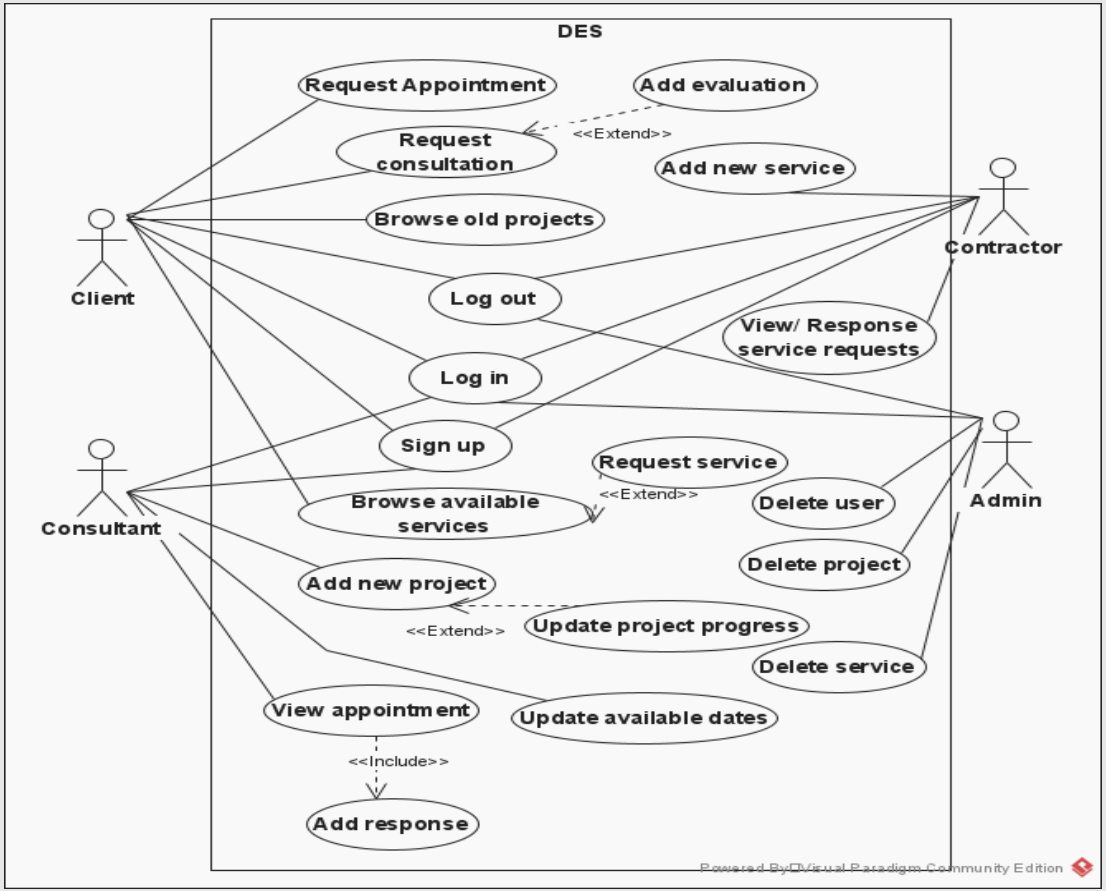
Functional Requirements

Web Admin

- Log in
- Delete service
- Delete user
- Delete project
- Log out

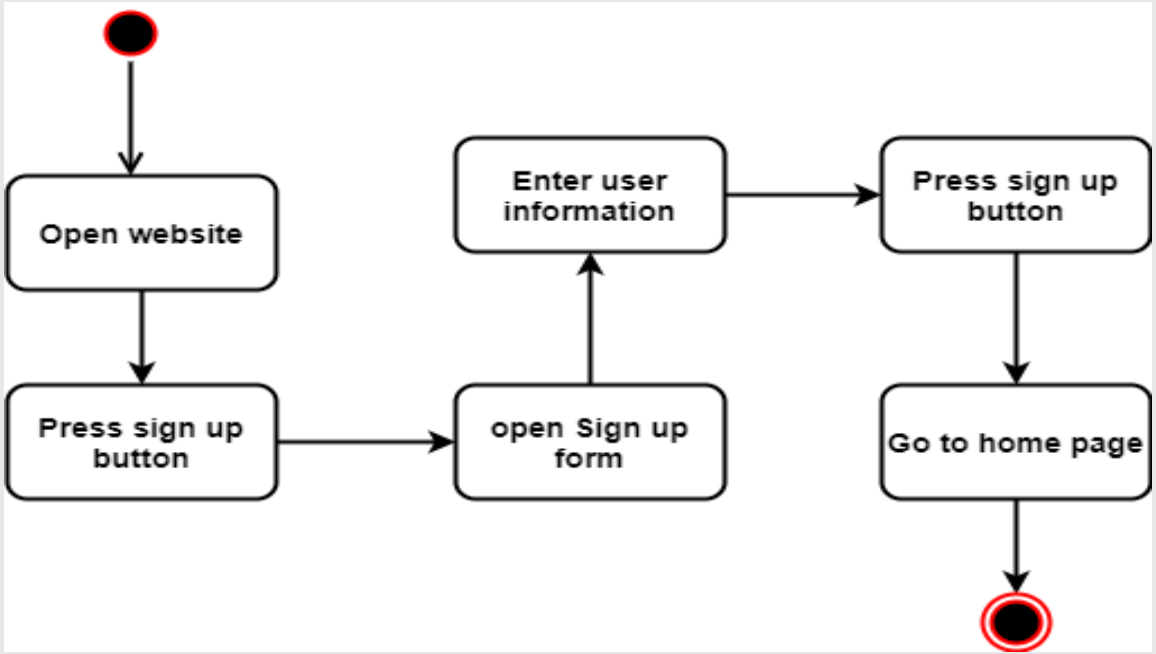
05
System Design

Use Case Diagram



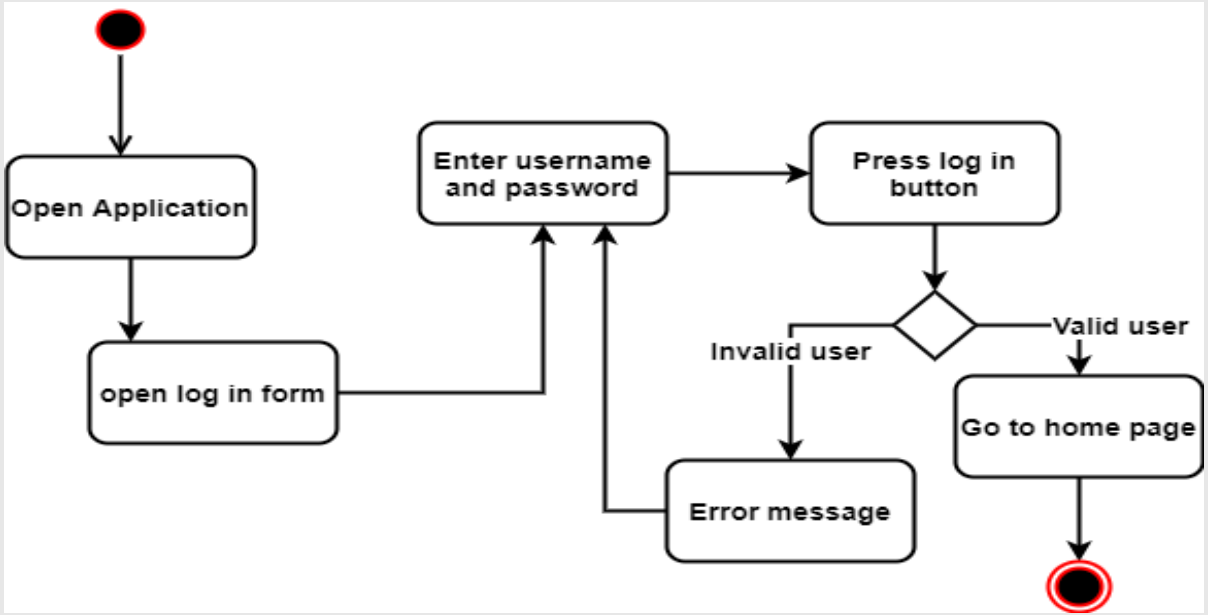
Activity Diagrams

Sign Up Process



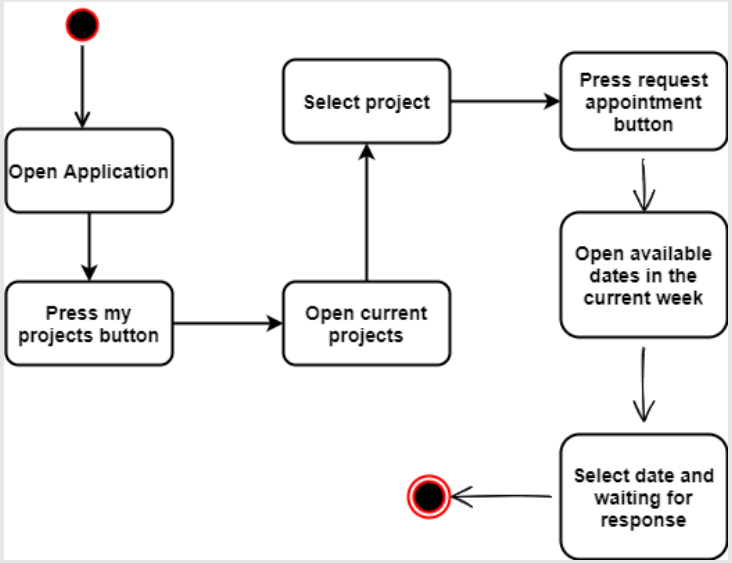
Activity Diagrams

Log In Process

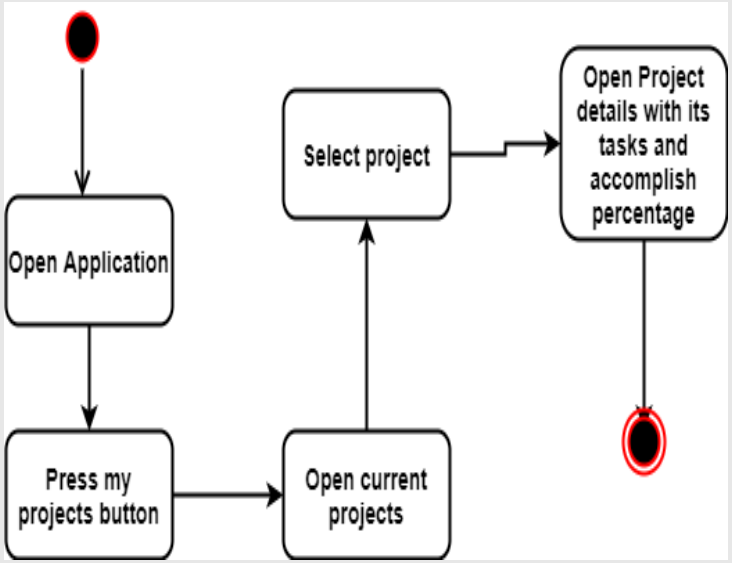


Activity Diagrams

Client Activities/ Request Appointment

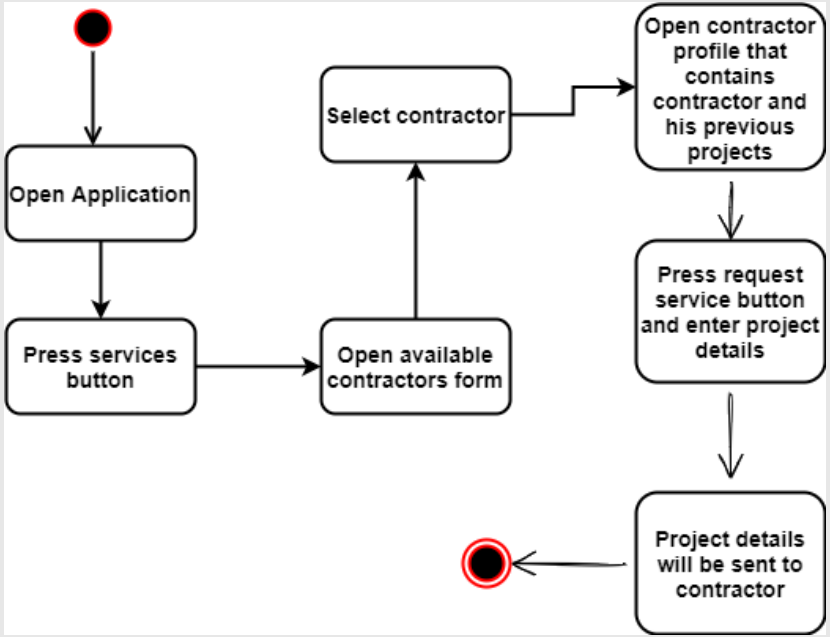


Client Activities/ View project progress



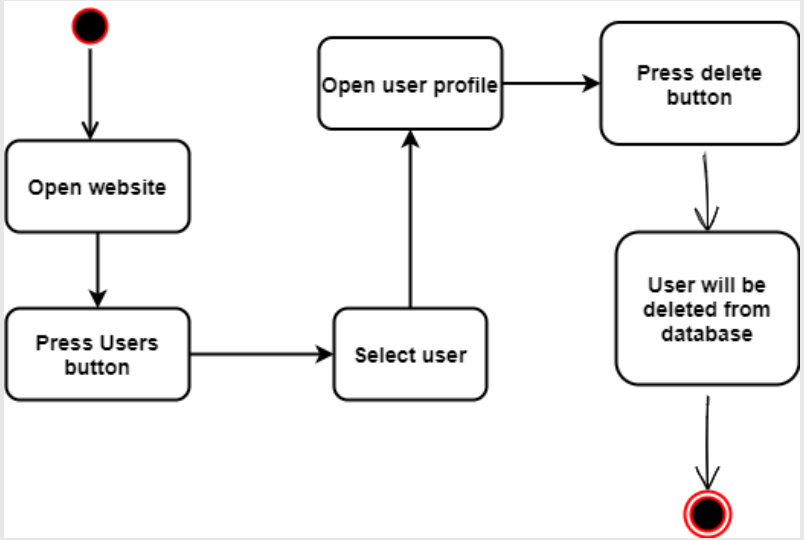
Activity Diagrams

Client Activities/ Browse and Request Services

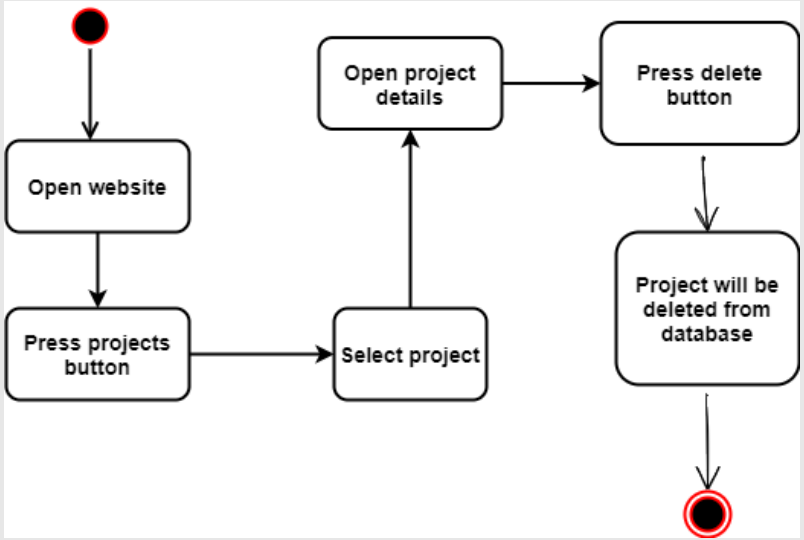


Activity Diagrams

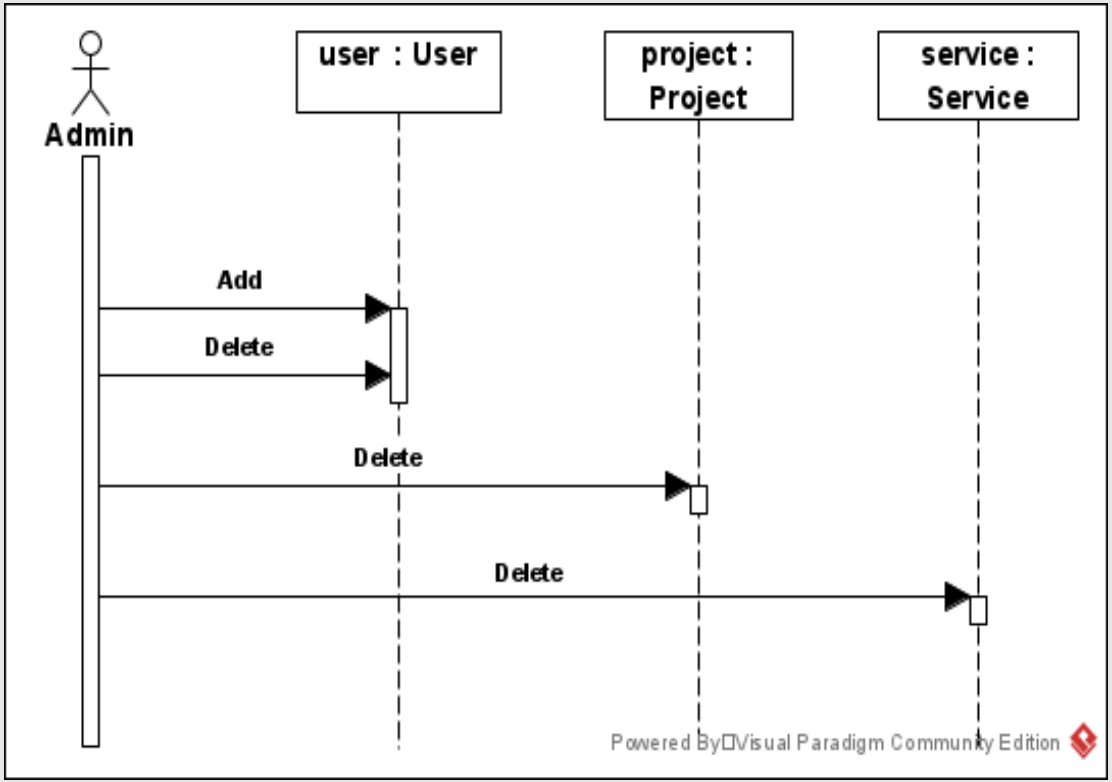
Admin Activities/ Delete User



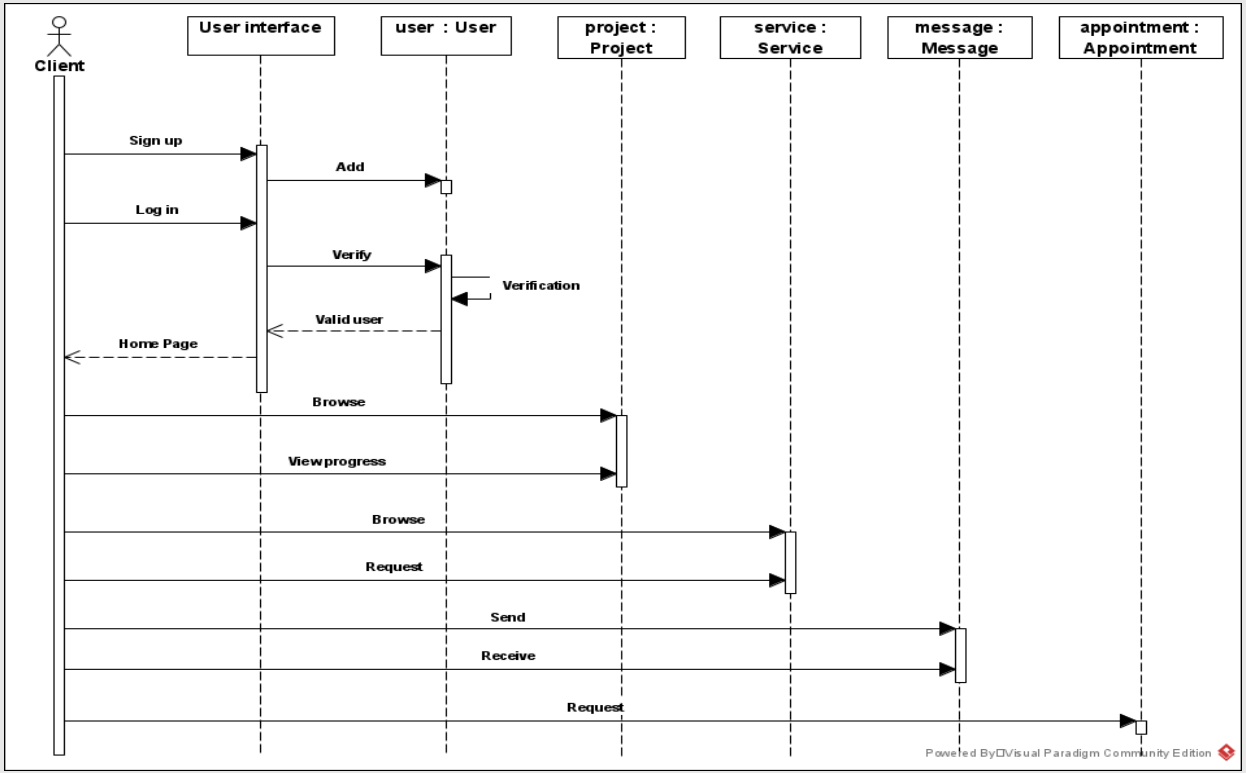
Admin Activities/ Delete Project



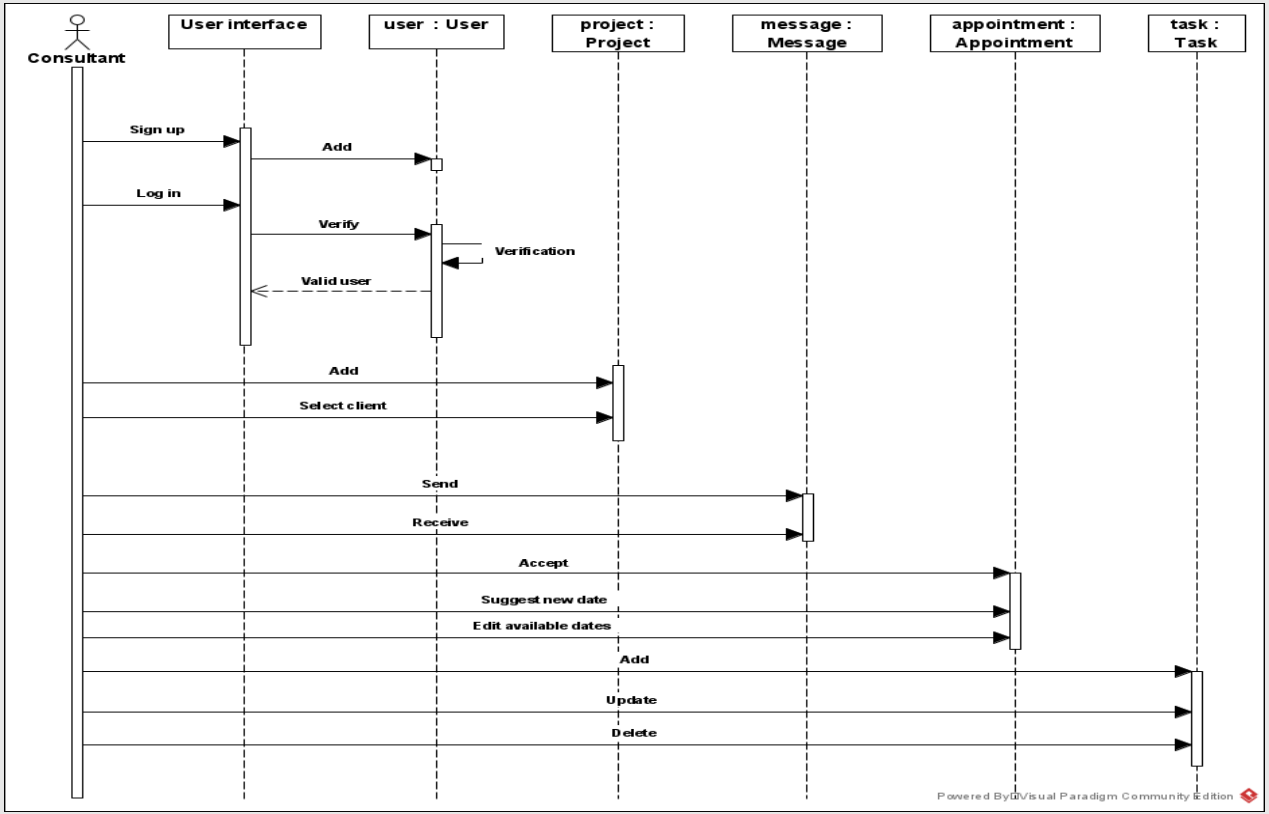
Sequence Diagram/ Admin



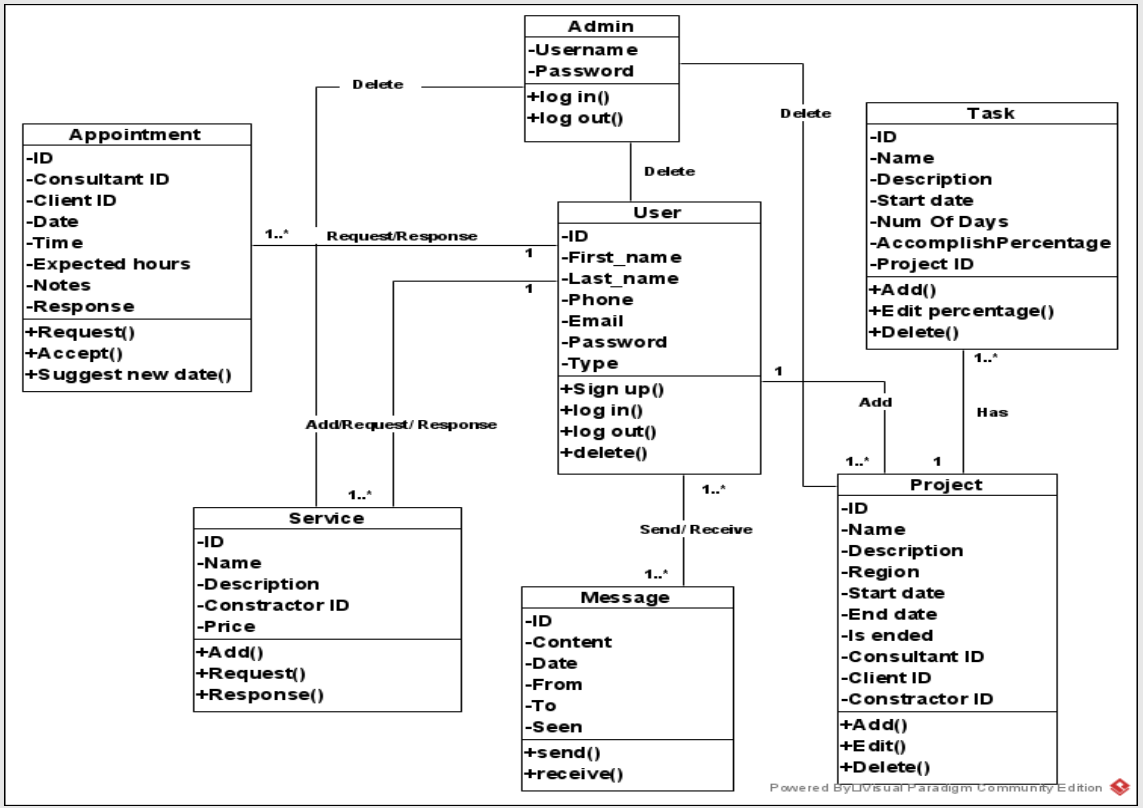
Sequence Diagram/ Client



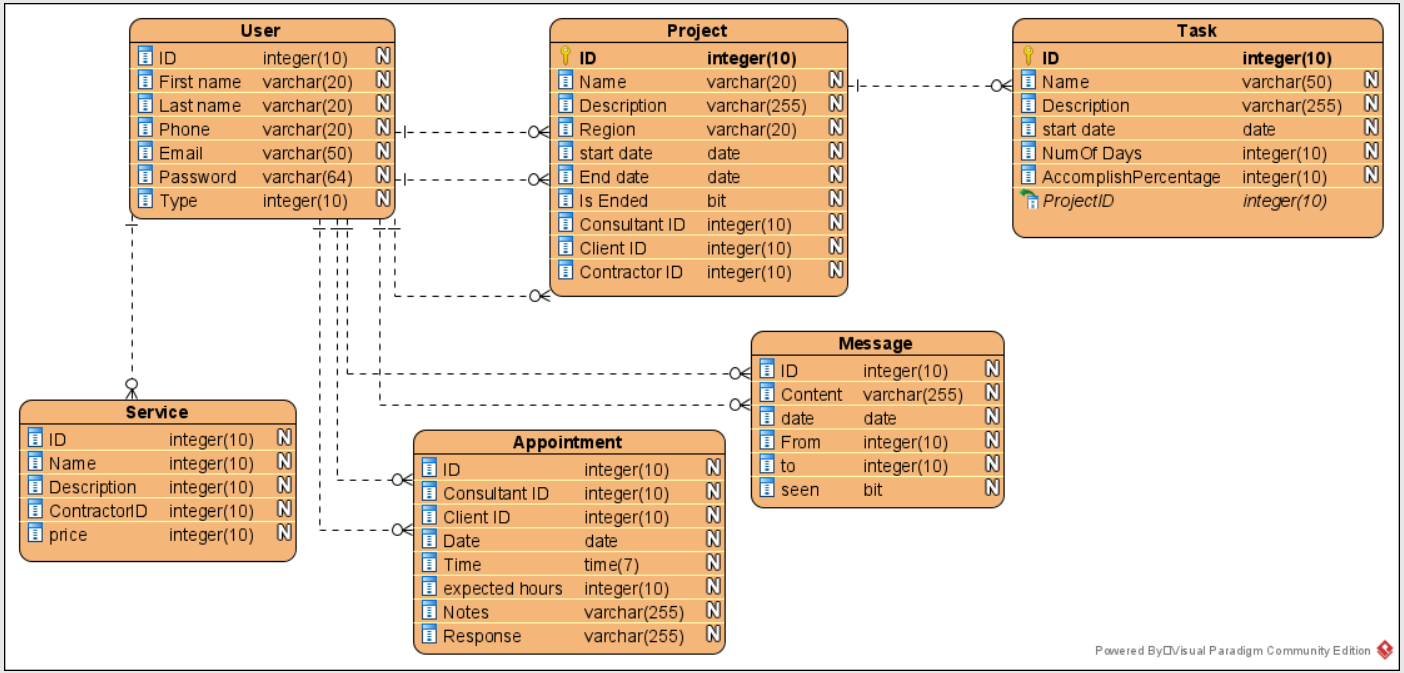
Sequence Diagram/ Consultant



Class Diagram

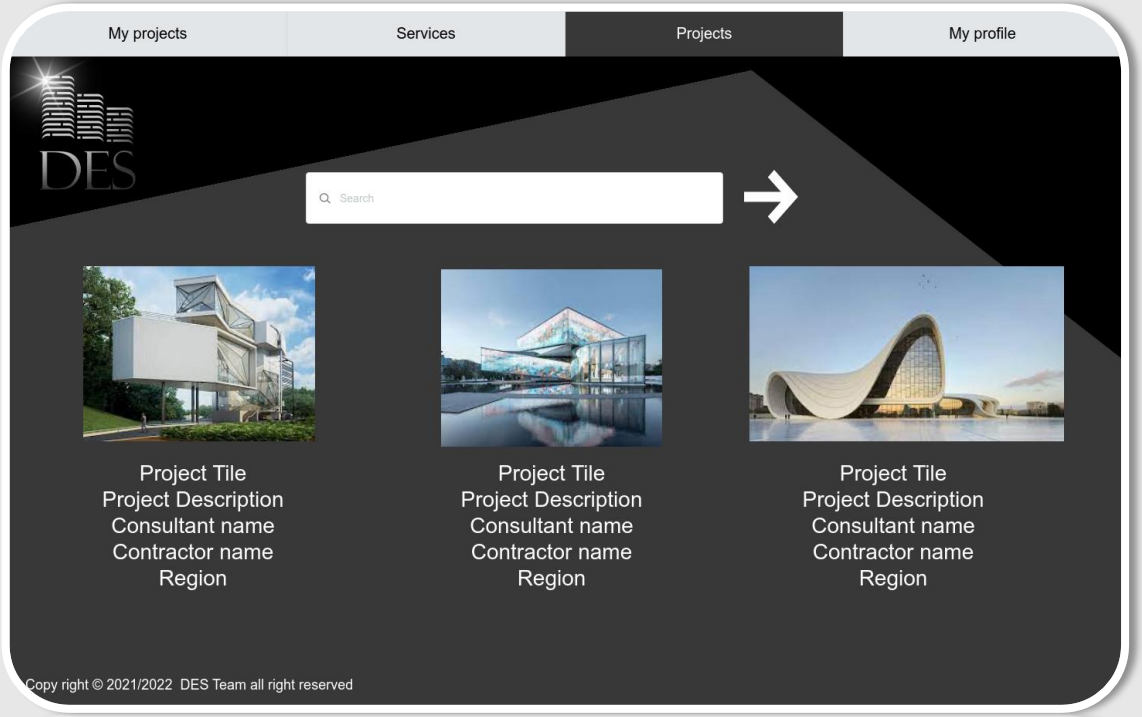


Entity Relationship Diagram



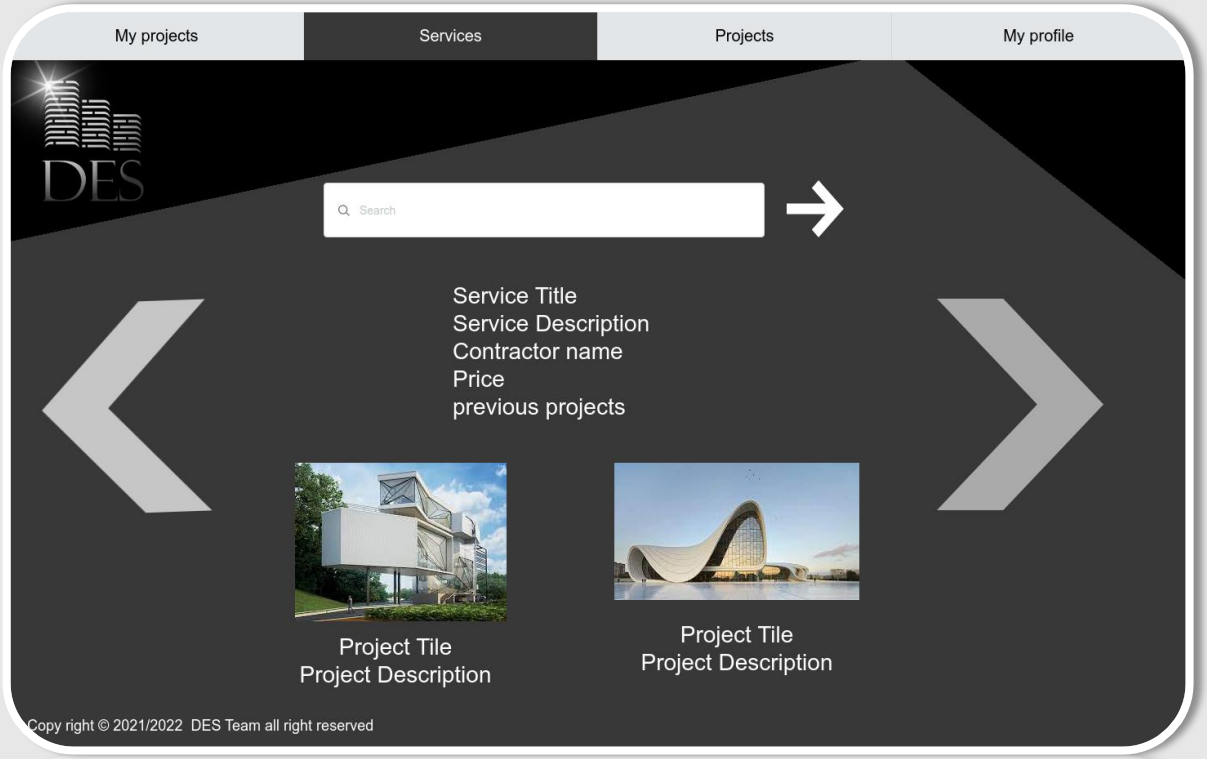
User Interfaces

Client Interfaces



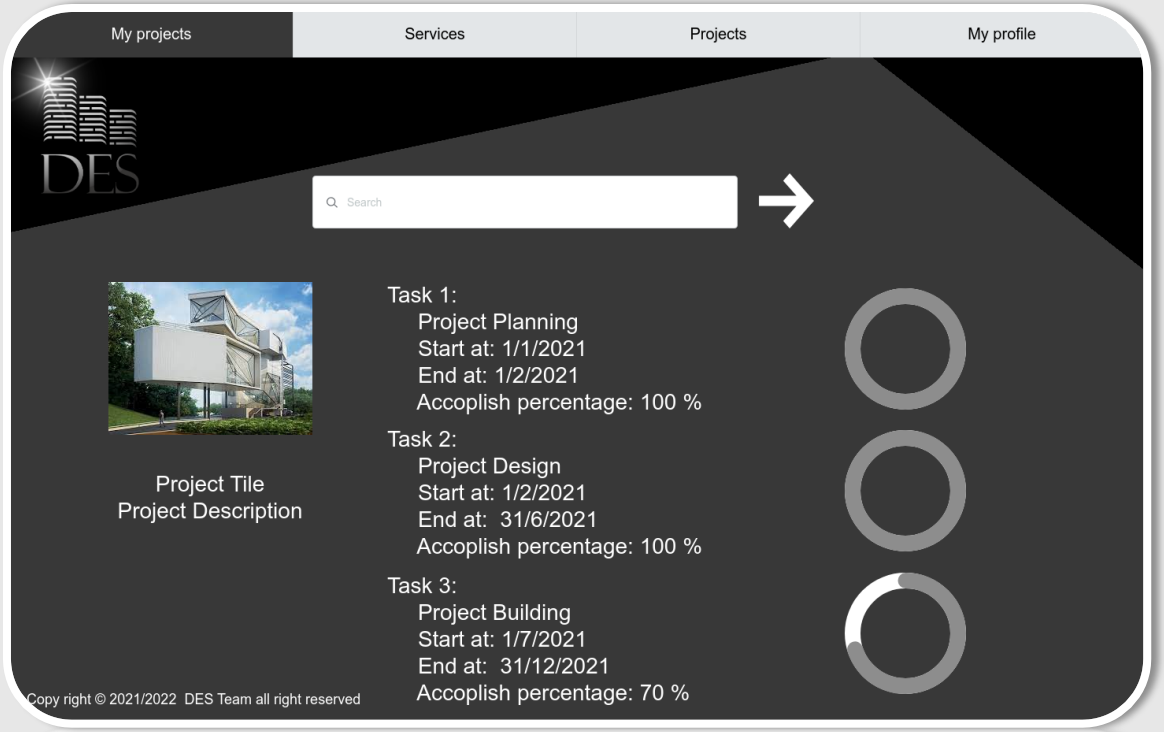
User Interfaces

Client Interfaces



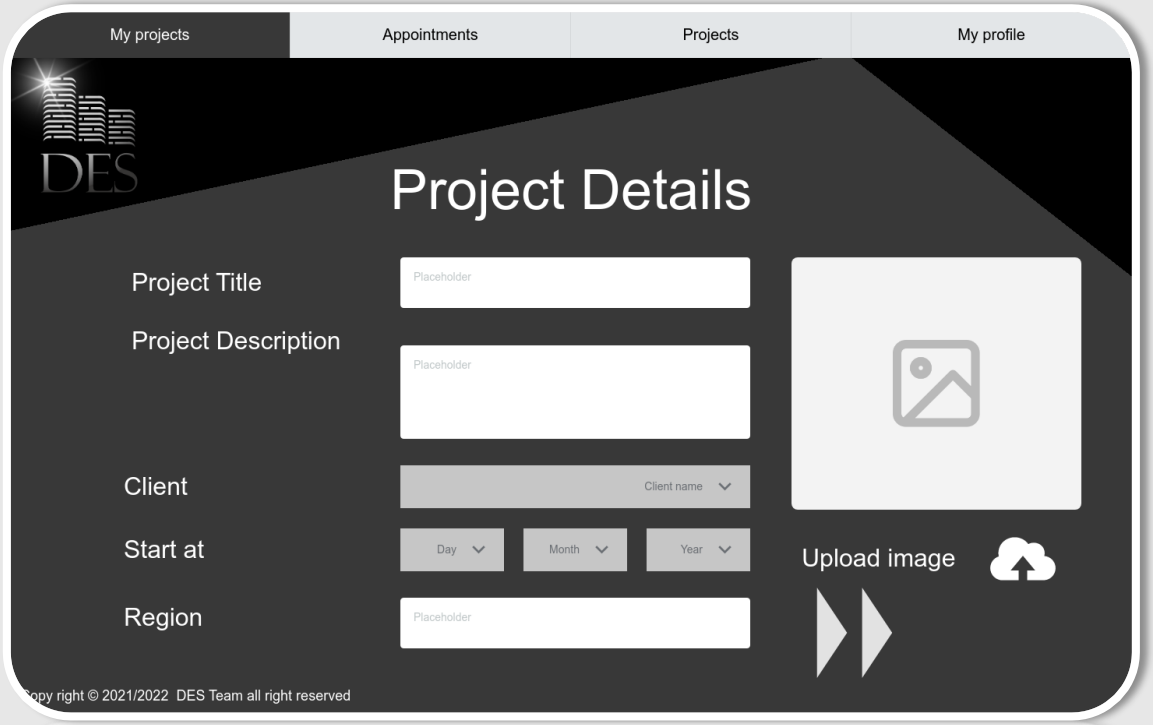
User Interfaces

Client Interfaces



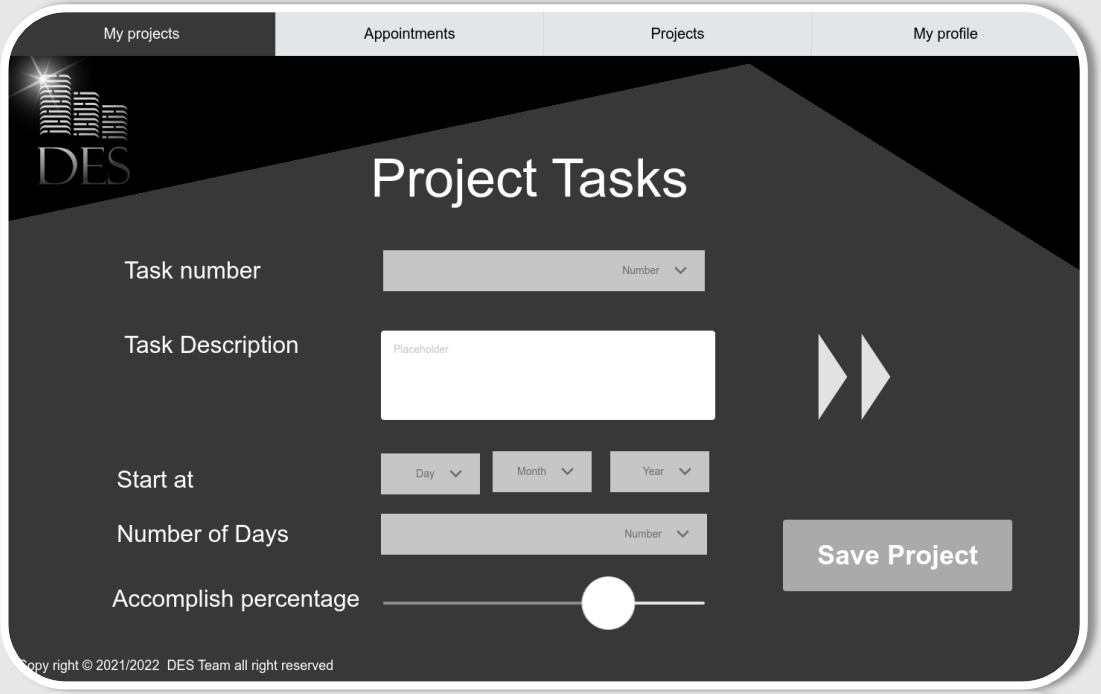
User Interfaces

Consultant Interfaces



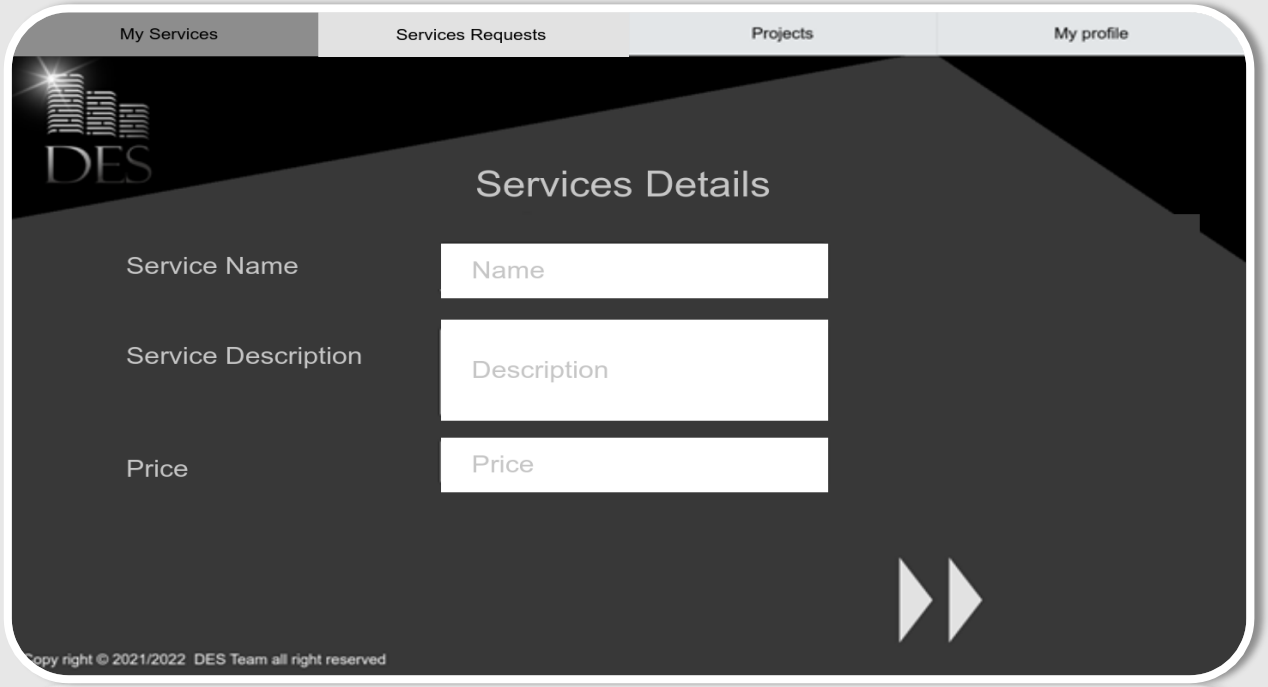
User Interfaces

Consultant Interfaces



User Interfaces

Contractor Interfaces

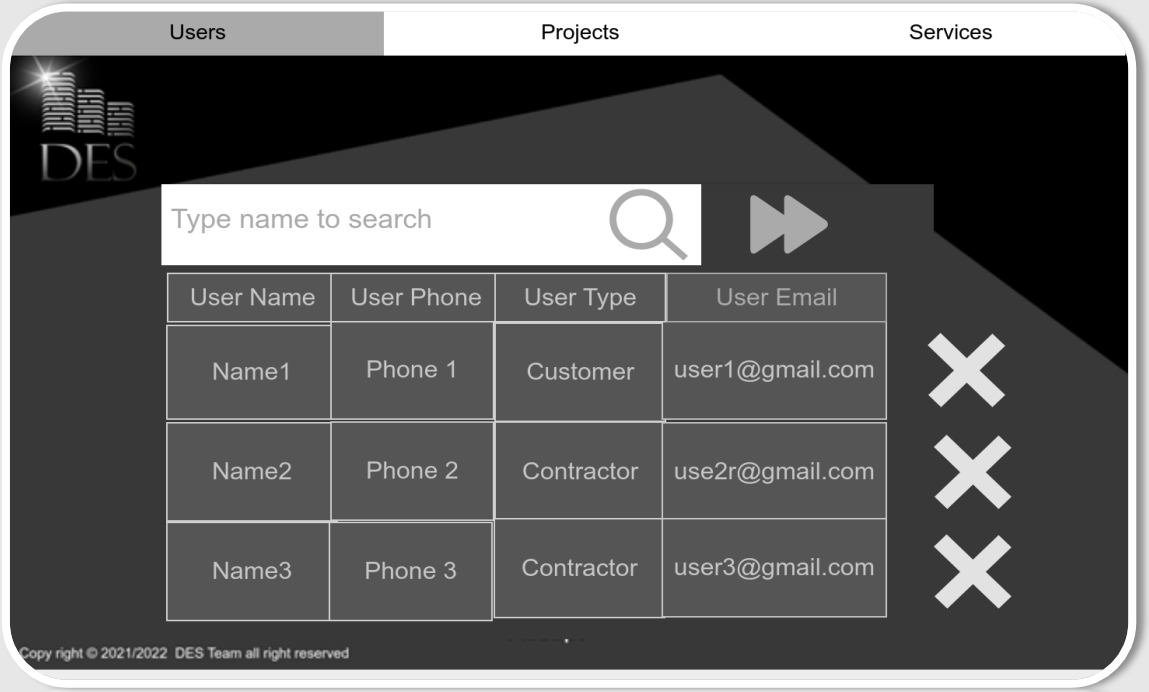


User Interfaces

Contractor Interfaces

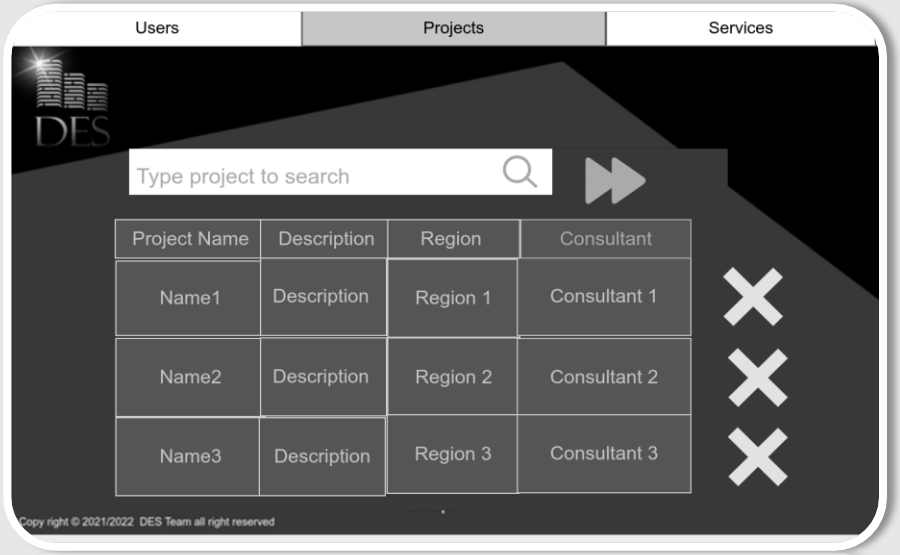
User Interfaces

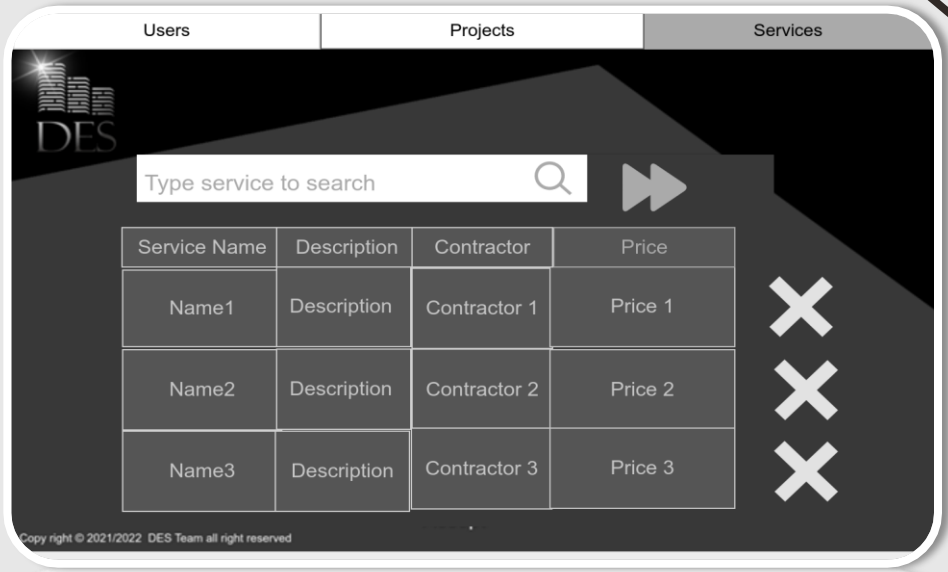
Admin Interfaces



User Interfaces

Admin Interfaces





06

Conclusion

Conclusion

The design study for a digital engineering consultancy site was presented

The project stakeholders was identified

The design of this site was completed according to several stages

- Functional requirements UML tools
- ERD / database
- User interfaces

Future work

System implementation

System testing

System deployment

Gantt Chart

	task	task completion period						
		week1	week2	week3	week4	week5	week6	week8
	requirements analysis							
1	identify problem statement							
2	identify system objectives							
3	identify system benefits							
4	identify stakeholders							
5	study similar work							
6	feasibility study							
7	determine hardware and software requirements							
8	Submit First report							

	task	task completion period						
		week9	week10	week11	week12	week13	week14	week15
	System analysis							
9	Functional requirements							
	System Design							
10	Use case Diagram							
11	Activity Diagrams							
12	Database Design							
13	Class Diagram							
14	Sequence Diagrams							
	User Interface							
15	Submit Second report							

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Thanks !