

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
Deemed to be University
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NAAC Accredited with A++ Grade



Project Report
On
Development of Home Services System

Submitted by
Vikash Kumar
(0901CA221071)

Industry Mentor
Mrs. Sweety Gupta, (Project Guide, Praedico Global Research Pvt. Ltd.)

Faculty Mentor
Dr. Parul Saxena (Assistant Professor)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) Estd. 1957

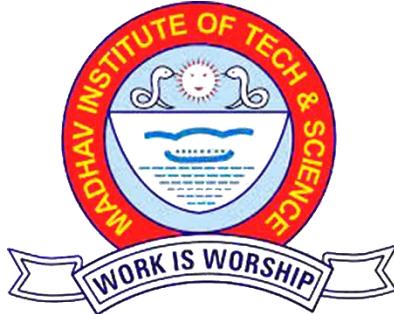
JANUARY - JUNE 2024

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On

Development of Home Services System

A project report submitted in partial fulfilment of the requirement for the degree of

MASTER IN COMPUTER APPLICATION

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by

**Vikash Kumar
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To whom so ever it may concern

This is to certify that **Mr./Mrs./Miss. VIKASH KUMAR (0901CA221071)** student of MCA at MITS, Gwalior, has completed **Project** Training/Internship program as an online/offline trainee at our organization **PRAEDICO GLOBAL RESEARCH PVT. LTD.** Him/Her training details are:

Period - **01 JAN 2024 to 22 APR 2024**

Technology – **MERN Full Stack**

Project Title – **HOME SERVICES**

All of us at Praedico Global Research Pvt. Ltd. are pleased to have him/her in our team. This Project Training/Internship program includes training, orientation and focuses primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands on application of the knowledge he/she learned.

We take this opportunity to wish him/her a long, happy and successful career.

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CERTIFICATE

This is certified that **Vikash Kumar** (0901CA221071) has submitted the project report titled **Development of Home Services System** under the mentorship of **Mrs. Sweety Gupta**, (Project Guide, Praedico Global Research Pvt. Ltd.) in partial fulfilment of the requirement for the award of degree of **Master in Computer Application** in Computer Science and Engineering from **Madhav Institute of Technology and Science, Gwalior.**

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Master in Computer Application in Computer Science and Engineering at **Madhav Institute of Technology & Science**, Gwalior is an authenticated and original record of my work under the mentorship of **Mrs. Sweety Gupta**, (Project Guide, Praedico Global Research Pvt. Ltd.)

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



Vikash Kumar

0901CA221071

2022-2024

Master in Computer Application
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

Deemed to be University

(Declared under Distinct Category by Ministry of Education, Govt. of India)

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I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Parul Saxena** (Assistant Professor), Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



Vikash Kumar

0901CA221071

2022-2024

Master in Computer Application
Computer Science and Engineering

ABSTRACT

This target of project to providing a platform for a range of services to homeowners, such as electrician, plumber, technician, carpenter, labours and many more. The platform will provide a better convenient and easy-to-use user interface for customers to find and search a wide range of high-quality service, that connects homeowners with skilled professionals who can provide these services. By this system the users can save their time. The main purpose of this project is to provide a smart and easy way to utilize latest technology through web application for registration of complain and its tracking. We want to develop a website or web application for Home Services management where user can register for their complains and demand for his required service. This platform will allow homeowners to easily book appointments with professionals, view estimates in advance, and track the progress of their projects. The platform will also provide a way for professionals to communicate with clients, and receive payments. By providing a convenient and easy way for homeowners to access these services, this project aims to make home maintenance, repairs and other services more accessible and reachable for everyone.

Market Analysis: In this busy world the demand for home services is growing, with a significant demand. Additionally, the busy lifestyle of people living in cities has also contributed to the growing demand for these types of services. The target customers for this project are office employees and elder peoples who are unable to visit in search of these services.

Sales and Marketing Strategy: The project aims to implement a comprehensive sales and marketing strategy that leverages both online and offline channels to connect with our target customers. Online platforms, including social media, will be used to reach a wider audience, while offline channels, such as posters and templates will be used to target customers at specific locations.

Financial Projections: The project is expected to generate significant revenue by providing services to targeted customers. The revenue will be generated by partnership with local service providers. The financial projections indicate that the project is expected generate substantial profits. With a comprehensive sales and marketing strategy and favourable financial projections, this project has the potential to become a successful and profitable venture. This platform will also offer features such as real-time complain tracking and customer support to enhance customer satisfaction and loyalty.

सार

परियोजना का लक्ष्य घर के मालिकों को इलेक्ट्रीशियन, प्लंबर, तकनीशियन, बढ़ई, मजदूरों और कई अन्य सेवाओं के लिए एक मंच प्रदान करना है। प्लेटफॉर्म ग्राहकों को उच्च-गुणवत्ता वाली सेवाओं की एक विस्तृत श्रृंखला खोजने और खोजने के लिए एक बेहतर सुविधाजनक और उपयोग में आसान उपयोगकर्ता इंटरफ़ेस प्रदान करेगा, जो घर मालिकों को कुशल पेशेवरों से जोड़ता है जो ये सेवाएं प्रदान कर सकते हैं। इस प्रणाली से उपयोगकर्ता अपना समय बचा सकते हैं। इस परियोजना का मुख्य उद्देश्य शिकायत के पंजीकरण और उसकी ट्रैकिंग के लिए वेब एप्लिकेशन के माध्यम से नवीनतम तकनीक का उपयोग करने का एक स्मार्ट और आसान तरीका प्रदान करना है। हम होम सर्विसेज प्रबंधन के लिए एक वेबसाइट या वेब एप्लिकेशन विकसित करना चाहते हैं जहां उपयोगकर्ता अपनी शिकायतों और अपनी आवश्यक सेवा की मांग के लिए पंजीकरण कर सकते हैं। यह प्लेटफॉर्म घर मालिकों को पेशेवरों के साथ आसानी से नियुक्तियाँ बुक करने, पहले से अनुमान देखने और अपनी परियोजनाओं की प्रगति को ट्रैक करने की अनुमति देगा। यह प्लेटफॉर्म पेशेवरों को ग्राहकों के साथ संवाद करने और भुगतान प्राप्त करने का एक तरीका भी प्रदान करेगा। घर के मालिकों को इन सेवाओं तक पहुंचने का एक सुविधाजनक और आसान तरीका प्रदान करके, इस परियोजना का लक्ष्य घर के रखरखाव, मरम्मत और अन्य सेवाओं को सभी के लिए अधिक सुलभ और पहुंच योग्य बनाना है।

बाजार विश्लेषण: इस व्यस्त दुनिया में घरेलू सेवा की मांग काफी बढ़ रही है। इसके अतिरिक्त, शहरों में रहने वाले लोगों की व्यस्त जीवनशैली ने भी इस प्रकार की सेवाओं की बढ़ती मांग में योगदान दिया है। इस परियोजना के लक्षित ग्राहक कार्यालय कर्मचारी और बुजुर्ग लोग हैं जो इन सेवाओं की तलाश में आने में असमर्थ हैं।

बिक्री और विपणन रणनीति: परियोजना का लक्ष्य एक व्यापक बिक्री और विपणन रणनीति लागू करना है जो हमारे लक्षित ग्राहकों से जुड़ने के लिए ऑनलाइन और ऑफलाइन दोनों चैनलों का लाभ उठाती है। व्यापक दर्शकों तक पहुंचने के लिए सोशल मीडिया सहित ऑनलाइन प्लेटफॉर्म का उपयोग किया जाएगा, जबकि पोस्टर और टेम्पलेट जैसे ऑफलाइन चैनलों का उपयोग विशिष्ट स्थानों पर ग्राहकों को लक्षित करने के लिए किया जाएगा।

वित्तीय अनुमान: इस परियोजना से लक्षित ग्राहकों को सेवाएँ प्रदान करके महत्वपूर्ण राजस्व उत्पन्न होने की उम्मीद है। स्थानीय सेवा प्रदाताओं के साथ साझेदारी से राजस्व उत्पन्न किया जाएगा। वित्तीय अनुमानों से संकेत मिलता है कि इस परियोजना से पर्याप्त लाभ होने की उम्मीद है। व्यापक बिक्री और विपणन रणनीति और अनुकूल वित्तीय अनुमानों के साथ, इस परियोजना में एक सफल और लाभदायक उद्यम बनने की क्षमता है। यह प्लेटफॉर्म ग्राहकों की संतुष्टि और वफादारी बढ़ाने के लिए वास्तविक समय में शिकायत ट्रैकिंग और ग्राहक सहायता जैसी सुविधाएँ भी प्रदान करेगा।

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Chapter 1: Introduction

The Home Services project represents a comprehensive platform that smoothly connects homeowners with a diverse range of essential services. This digital solution streamlines the process of locating various home services. By facilitating efficient communication between customers and service providers, the platform ensures effective scheduling and reasonable pricing. Ultimately, the project aims to enhance the overall customer experience within the home service sector, offering features such as secure payment options, complaint tracking, and user reviews.

The Home Services project aims to change the conventional approach to home services by providing homeowners with a practical, transparent, and efficient solution to meet their needs. Which encompassing a wide range of services which include electrical work, plumbing work cleaning and maintenance. The platform offers a user-friendly interface for seamless service discovery and booking. Its primary goal is to empower homeowners in efficiently finding optimal solutions for their household challenges.

The Home Services project aims to enhance and simplify homeowners' access to essential services. With the use of latest technology, this platform serves as a central hub connecting consumers with a diverse range of home services. It provides a user-friendly interface for seamless service discovery, booking, and management. Ultimately, the project aims to transform the traditional approach to home services.

This project is designed to manage home services in efficient and sustainable manner. These systems have been implemented by creating a webpage where users can log in search services according to their need. The administrator has overall control of all activities on the webpage, and the web application primarily aims at connecting users, service providers, and administrator to work efficiently. Home Services should be optimized so that the time consumption in reaching the customers house is minimized. This system is proposed as a solution for office employees and elder peoples who are unable to visit in search for a good service provider. Home Services system is also an innovative project idea for maintaining homes easily and at reasonable price. The Home Services project aims to revolutionize the way homeowners' access and manage their household needs, making it easier, more efficient, and reliable.

1.1 Problem Identification

- a. The increase in population has led to increase in the construction of apartments and flats, as people of rural area migrate to urban areas in search for job opportunities. This trend has been observed in many countries around the world, including India. The demand for flats and societies in India is increasing rapidly. In these flats and apartments, there are several issues faced by people. One of the major issues faced is the availability of proper home services. Due to lack of proper services people in cities face many problems such as roaming around in search of skilled service provider or also some time get over charged.
- b. In these flats and societies almost, everyone uses refrigerators, washing machines, ovens and other appliances in their homes. These appliances are on latest and sophisticated in technology, and when these electrical appliances get out of service due to overuse or improper use these appliances requires service to be repaired which must be done by a skilled person.
- c. So, to call any skilled mechanic, electrician, and for any other services in affordable price, there must be a way to book these services online and call them at home by giving proper addresses. Which will provide a great convenient to families living in these places.
- d. Also, many times when some appliances breakdown or stop working and its owner didn't get proper mechanic then he itself start trying to repair it and due to lack of knowledge or proper tools he just make more damage and make it irreparable or sometimes met with an accident and get injured by getting shock.
- e. Sometimes due to lack proper service of home appliances many people throw them in garbage due to which e-waste is increasing in our environment. This e-waste contains various toxic chemicals which includes substances such as flame retardants, polybrominated diphenyl ethers (PBDEs), polycyclic aromatic hydrocarbons (PAHs), lead, cadmium, nickel, and mercury, as well as polychlorinated dibenzo-p-dioxins and furans (PCDD/Fs). These harmful chemicals directly release in environment and contaminate it.

1.2 Parent Organization



Praedico Global Research Pvt. Ltd.: Revolutionizing Financial Literacy in India

Praedico Global Research Private Limited is a privately held firm founded on April 9, 2018. The company focuses in a number of stock market-related fields, such as financial literacy, stock market research using deep learning, robotic stock trading, global equity research, stock market training, and stock market predictive software.

The chief executive officers are Priyank Gupta, the chief technical officer, and Sunny Ralli, the chief research officer. The company's registered address is 2nd Floor 204, Garima Arcade Shinde Ki Chawani, Gwalior, Madhya Pradesh, and its registered number is 045496. The operational office is situated in South Delhi's Malviya Nagar. Praedico Global Research has one million rupees in authorized capital and one hundred thousand rupees in paid-up capital. 74999 is their industrial code.

Praedico Global Research, which bills itself as the first "coordinated worldwide research cum training" organization in India, is dedicated to advancing financial literacy worldwide. The business has created a special research technique for analysing stock exchanges in India and abroad. Praedico Global Research forecasts global stock market trends by utilizing artificial intelligence. Even though the company has only been around for a short while, it has made great progress in its endeavours.

Historically, traders and brokers have forecasted stock market movements by analysing economic data, market dynamics, and corporate information. But given the inherent hazards associated with the stock market, human logic is frequently insufficient. In order to meet this challenge, Praedico Global Research uses artificial intelligence in the form of neural networks to forecast stock market movements with an astounding success record of more than 80%.

Praedico Global Research creates software that is both robust and very responsive to market developments. High-probability forecasts with a minimum 80% confidence level are produced by these tools. Furthermore, the organization offers its financial workshops globally, providing its clients who trade on stock exchanges with their experience. Praedico Global Research develops hybrid products that enable traders and investors to make better-informed investment decisions by fusing financial research and neural network programming.

1.3 Hardware and Software Specification

Hardware Specification

To ensure our project runs smoothly and reliably, we've specified the hardware requirements. Our system will use a Core i5 CPU from the 5000 series, which operates at 2.50 GHz. This powerful processor can handle the computational demands effectively. We'll have 8 GB of RAM for multitasking and managing large datasets. Additionally, we'll use a 512 GB SSD (Solid State Drive) for improved overall performance and faster data access. Our system will run on a 64-bit OS to maximize efficiency and compatibility with modern software. With these specs, we're confident our system can meet the demands of our work effectively.

Software Specification

- a. Windows 11 Operating System:** We chose Windows 11 because it has advanced features, better security, and a modern design. It provides a stable environment for software development. Also, Windows 11 is optimized for modern hardware, ensuring efficient resource utilization and smooth performance.
- b. Visual Studio Code (VS Code):** This is our main coding tool. It supports many programming languages, has useful extensions, and integrates with version control systems. It helps us code efficiently and collaborate with our team. The clean and intuitive interface minimizes distractions, allowing us to focus on writing code efficiently. Also, git integration within VS Code streamlines collaboration. We can commit changes, switch branches, and resolve merge conflicts—all without leaving the editor.
- c. MongoDB Compass:** We use this for managing databases. It has an easy-to-use interface for tasks like designing and optimizing databases. It works seamlessly with Windows 11. It is also available for Linux, Mac, and Windows, ensuring seamless integration into our development environment.
- d. Postman:** A crucial tool for testing and validating APIs. It ensures software reliability and scalability. Features include automated testing, real-time monitoring, and collaboration capabilities. Postman's user-friendly interface allows us to create, send, and analyse API requests effectively. We can test endpoints, verify responses, and handle authentication.

Chapter 2: Systems Analysis

2.1 Problem Analysis

- a. To use this facility, users have to register by entering their name, email id, password, mobile number of their own choice and their address on our website. For old users they have to login with their email id and password. To perform all above activities user must have smart phone or laptop with internet facility.
- b. We need a database server to store users' data, our website related data and complains related data. To store data properly we create a database name home_services and collections as users to store user's data, complains to store complains related data, serviceprovider to store service provider data, feedback to store feedbacks and ratings.
- c. To book any service user has to navigate categories shown on the home page and then choose sub category. If user is not login, then asked for login and then address and short description about his requirement. After successful registration of complain user can check the status of his current complain and previous complains in history section.
- d. User can give feedback to a specific complain given by him in history section by providing some message and rating. This feedback will be shown to user in feedback section. And also, this will be shown to admin from there he can reply to user. All the replies can be seen in user feedbacks section with date and complain number.
- e. In this system admin can see all the activities of system in his dashboard. He can see and manage the total number of categories, sub categories, complains, feedbacks, and total number of user and service providers.
- f. In this system admin first add the category of service by entering category name, category description and category photo which will be visible to user make users easy to find their required service. This category will also be visible to admin which can be updated by admin whenever needed to update it.

- g. Here admin will also add sub categories by selecting categories from dropdown and entering sub category name, some description about sub category and sub category photo which will be displayed to user to better distinguish between different categories and sub categories. This will also be visible to admin and can be updated by him whenever needed.
- h. Admin will also add service providers by entering some basic details such as email, name, gender, date of birth, mobile number, address and some description about his area of working. Admin can also update details of service provider whenever needed and can also remove the service provider.
- i. After registration of a complaint by user, admin will assign the complaint to appropriate service provider and ask him to visit complaint address as soon as possible. Admin can also change the status of complain accordingly. User can also view the assigned service provider email, phone number and photo who is going to visit his place.
- j. This system notifies admin when any user successfully registers a complain, then the admin finds the nearby free service provider and assign him complain because the admin knows the details of free service provider in every area. Then the service provider locates the address of the user and visit the address as soon as possible and solves the customer's problem and charge accordingly and update the admin for same and return.

2.2 Feasibility Study

Feasibility study includes detailed discussion of output report, structure of file, and benefits and costs of the candidate system. Specific advice about the candidate system includes personnel assignments, project schedules, costs, and target dates are included in recommendations and final conclusion. It has become an official deal that makes the way for actual design and actual implementations.

2.2.1 Economic Feasibility Study

Sr. No.	Specification	Description
1.	System cost	₹ 1000
2.	Software cost	₹ 1000
3.	Electricity bill	₹ 2000
4.	Frontend developer	₹ 3000
5.	Backend developer	₹ 5000
6.	Database server	₹ 1000
7.	Assets	₹ 2000
Total cost		₹ 15000

2.2.2 Technical feasibility study

Hardware Requirement

Sr. No.	Specification	Description
1.	CPU	2.50 GHz
2.	RAM	8 GB
3.	Storage	512 GB
4.	NIC Card	For Internet Connection

Software Requirement

Sr. No.	Specification	Description
1.	Operating system	Windows 8.1 / 10 & 11, macOS 11 / 12 & 13
2.	Browser	Chrome / Edge / Mozilla
3.	IDE	VS code
4.	Database Server	MONGO DB

Programming Languages

Sr. No.	Specification	Description
1.	Frontend	HTML-5, CSS, React
2.	Backend	Node, JS
3.	Database	NO SQL

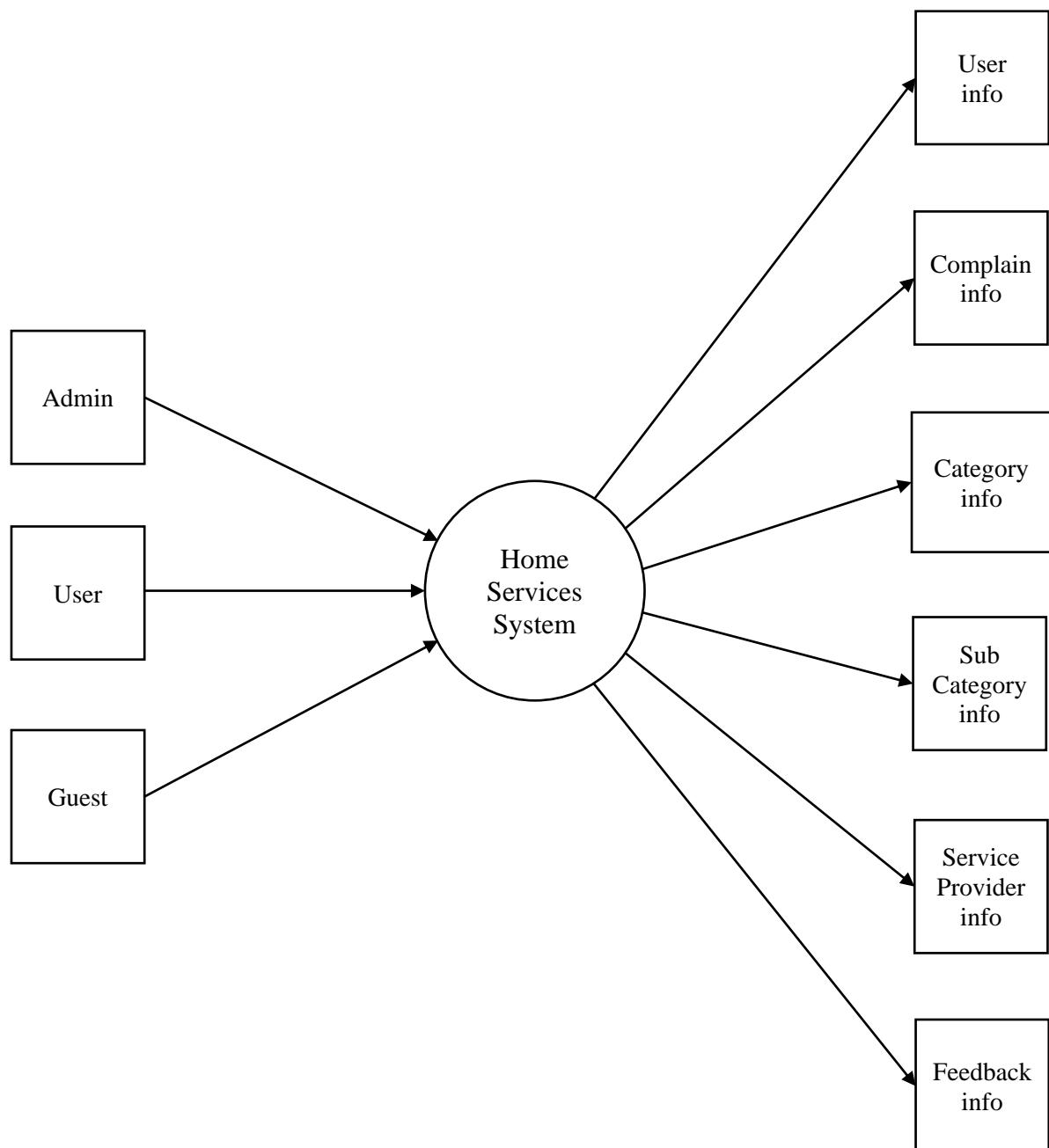
2.2.3 Behavioural Feasibility Study

- a.** To convince client we will put the benefits of the project that how effective this project can work and can contribute in keeping home owners' tension free of finding home services and keep their appliances safe and error free so that it can run properly for long time.
- b.** We can show visuals through presentation and functional features by running a small demo. We can use written text, graphics, images, and videos. We will make sure that by watching presentation client can quickly figure out how things will work when the project completes.
- c.** We can show how our site will work and full fill all the requirements of everyone, and what are the benefits in long term and short term. Also, how much of a value this particular project can offer, and helps in making everyone's life easy and tension free.
- d.** We will show a case study of current situations in societies and colonies that how their residents are facing problems due to improper management of home services. And when any person needs any service immediately then they cannot get it at time.
- e.** We will show the negative effect of improper management of home services, especially home appliances and it's after effect on environment, such as on water and on air. When any appliance gets damaged or stop working and its owner does not get any repair centre then he through it in environment or in garbage.
- f.** We can also prove it by actual facts and data that how e-waste is increasing day by day and leaving dangerous effect on our environment and climate, and how dangerous this could be for soil, air and water and how these are getting polluted day by day, and show them the dangerous effect of these on humans. So, our project will also be helpful in reducing e-waste from our environment which will be a great contribution and also good for our health.
- g.** We can show how simple interface we have designed so that it is easy to use and can be used by any one and also have lots of necessary feature which can be used to make sure everyone involved in this is doing their work properly.
- h.** We can also try by providing a little discount and service of onsite installation at initial stage and by explaining all the features of our project by our expert and also onsite upgradation whenever needed.

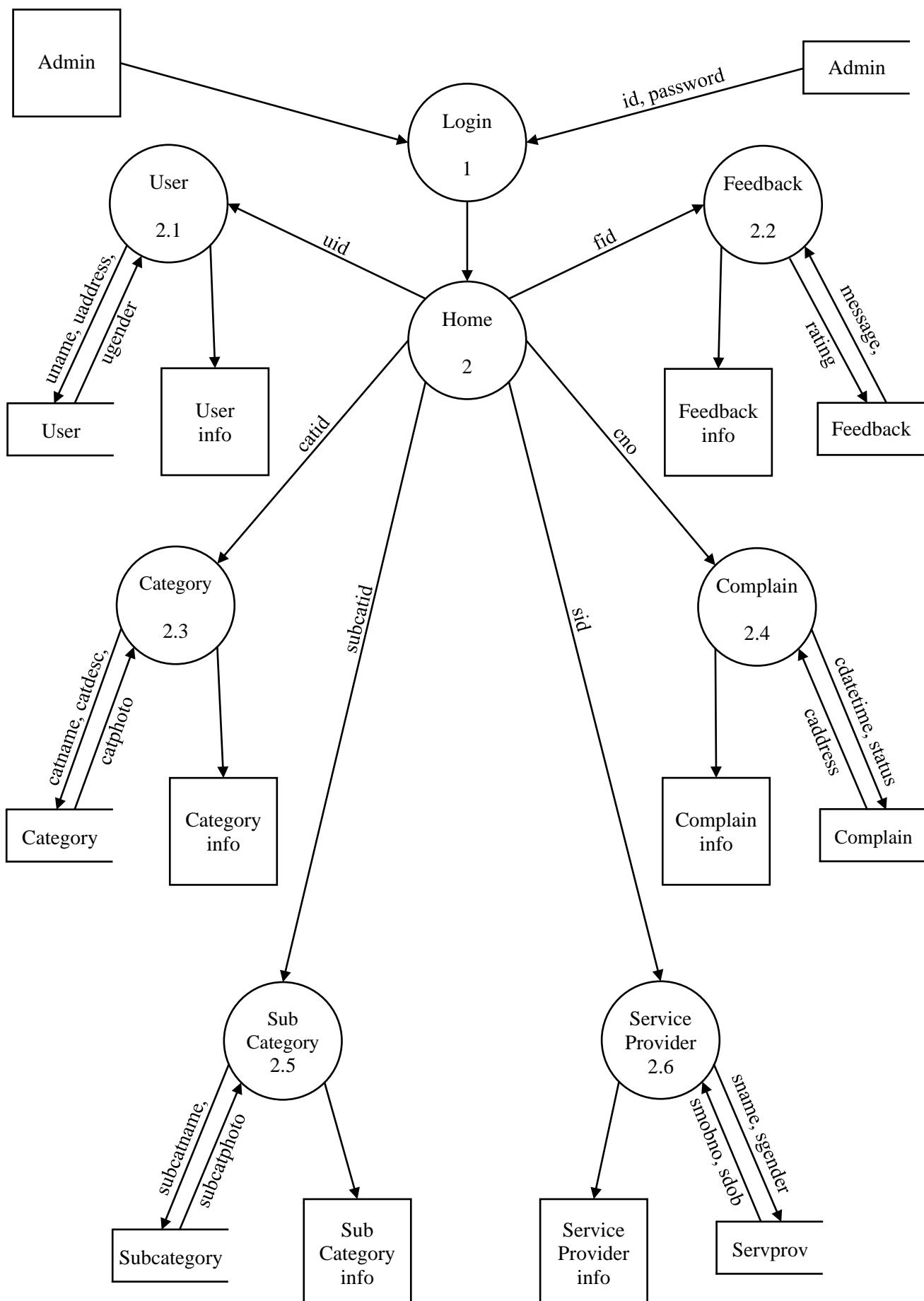
- i. We can put a strong comparison between our project and similar projects running in market, and prove by comparing all our project's features with others that how our project is better in cost and offers better features in compared to others.
- j. We can also provide training to use this system's feature properly and in effective way by our expert and ensure that they are satisfied with our services, and any technical support free 24x7 which ensure availability of this website 24x7, allowing users to access services at any time.

2.3 Data Flow Diagram (DFD)

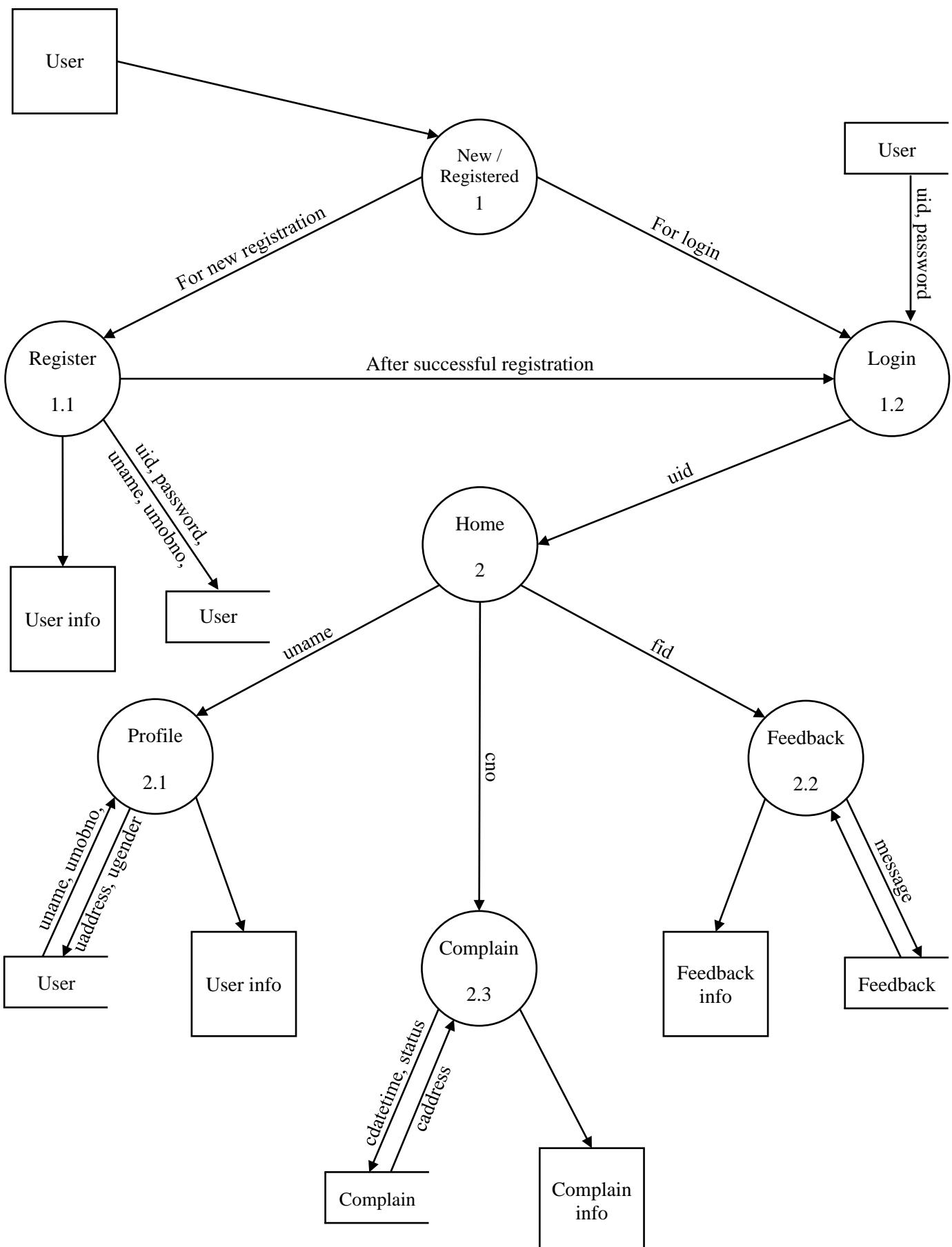
2.3.1 Level 0 DFD



2.3.2 Level 1 DFD For Admin



2.3.3 Level 1 DFD For User

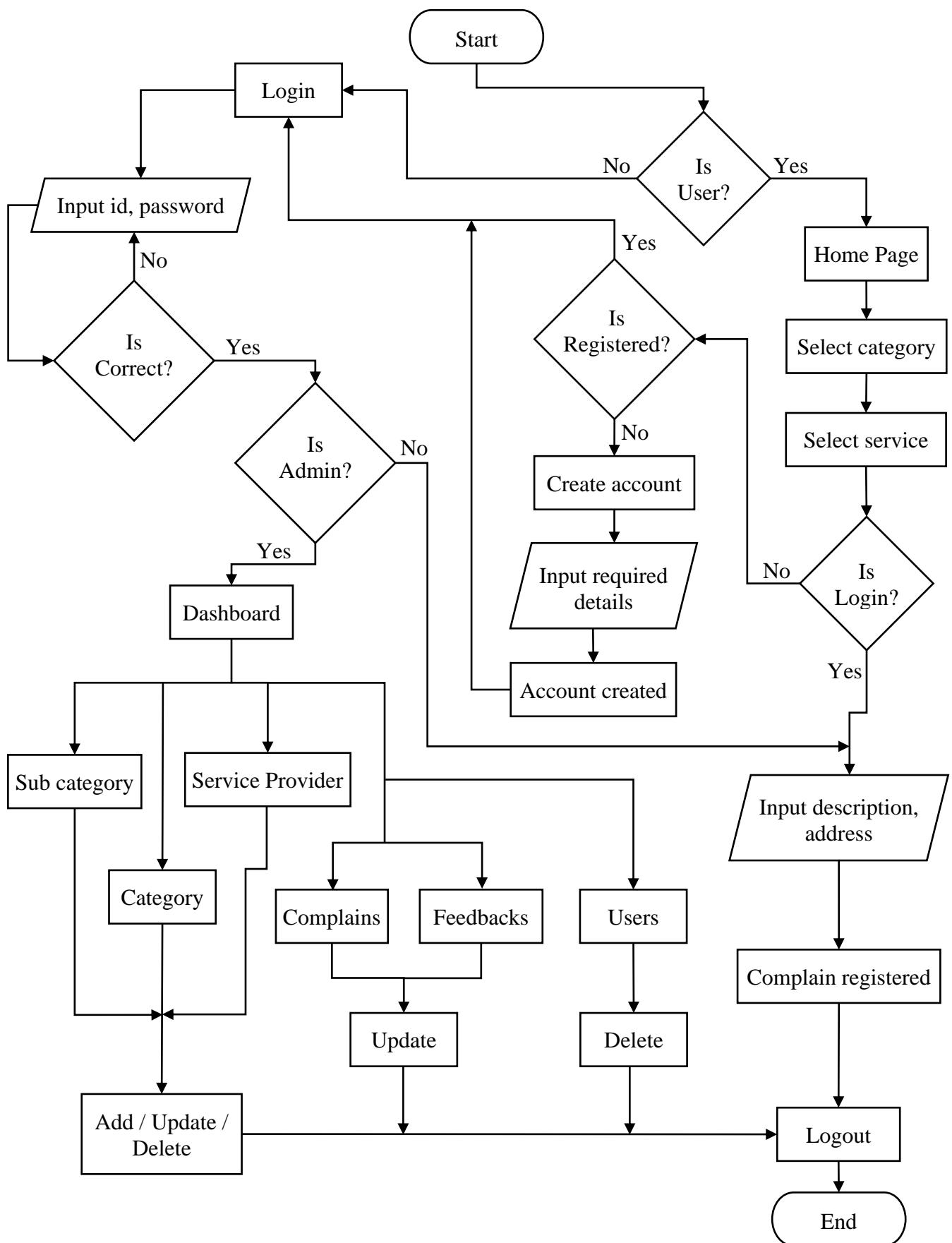


Chapter 3: System design

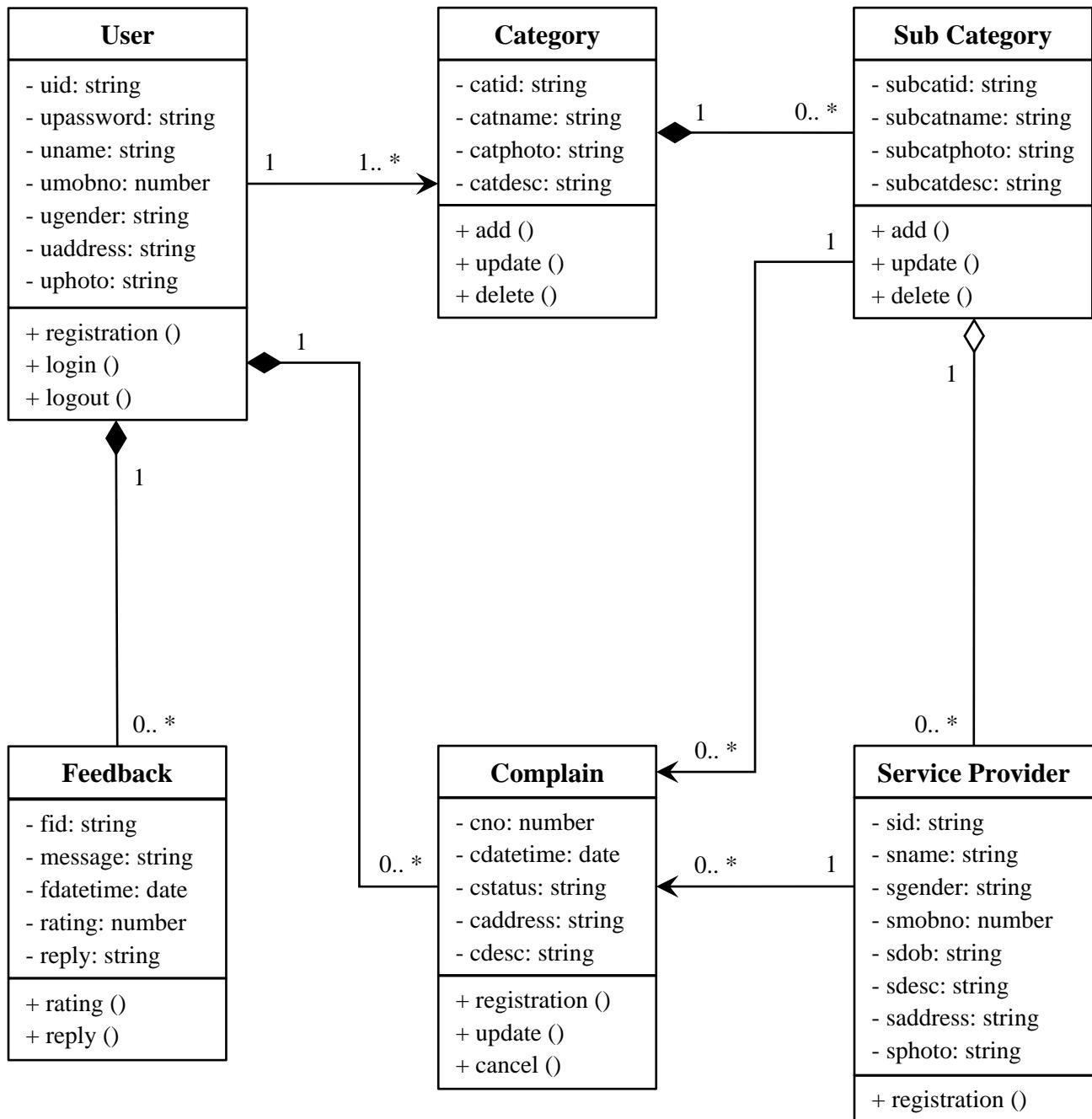
3.1 Use Case Diagram



3.2 System Flow Chart



3.3 Class Diagram



Chapter 4: Testing

Testing is a crucial part to assure quality of software it helps us to identify and fix any errors in a project. It is the final review for any complete project design and features. Testing is conducted to find any errors and compare its final result with the require result to ensure that the project meets all the necessary requirements. In order to determine whether the existing system is operating as expected or not, the entire project is tested using a set of test cases, and the needed output of the project is assessed for the test cases.

Testing is an interesting challenge to programmers who is attempting to build a theoretical idea to a working prototype. During the testing process, we create a sequence of test cases to check how our system will perform when any error occurs. It is the process in which we execute entire system to detect any errors. Any test is called the best when it has a high probability of finding any error in the system. An effective error is that which is not yet been identified. The difference between the expected output of the project and the current is called error.

4.1 Unit testing

We performed unit testing on each and every smallest unit of the developed website individually to check it's working. We had used different test data to perform the testing. We had tried all possible inputs such as any empty fields, wrong data and right data to check their corresponding outputs, and its related working. We had performed these tests on login, register, complain, new driver, new helper, new vehicle new dump yard and feedback forms.

Test case id	Section	Element name	Test Data	Expected result	Actual result
T1	Login	Email, password	admin@gmail.com, _____	Error: Fill all fields	Passed
		Email, password	admingmailcom, *****	Error: Wrong input	Passed
		Email, password	admin@gmail.com, *****	Loges in	Passed

T2	Register	Name, gender, mobile number, email, password, address, photo	Ram, male, 8569897895, ____	Error: Fill all fields	Passed
		Name, gender, mobile number, email, password, address, photo	Ram, male, 8569, ramgmailcom, ***, Gwalior	Error: Wrong input	Passed
		Name, gender, mobile number, email, password, address, photo	Ram, male, 8569897895, ram@gmailcom, *****, Gwalior	Registered successfully	Passed
T3	Complain	Description, address	Need electrician, ____	Error: Fill all fields	Passed
		Description, address	Need electrician, Gwalior	Complain registered	Passed
T4	Feedback	Rating, message	5, ____	Error: Fill all fields	Passed
		Rating, message	5, Good service	Feedback submitted	Passed
T5	Reply feedback	Message	____	Error: Fill all fields	Passed
		Message	Thank you	Replied	Passed
T6	Category	Category name, description, photo	Electronics, ____	Error: Fill all fields	Passed
		Category name, description, photo	Electronics123, All appliances	Error: Wrong input	Passed
		Category name, description, photo	Electronics, All appliances	Category added	Passed
T7	Sub Category	Sub Category name, description, photo	TV, ____	Error: Fill all fields	Passed
		Sub Category name, description, photo	TV123, All types of TV	Error: Wrong input	Passed
		Sub Category name, description, photo	TV, All types of TV	Sub category added	Passed

T8	Service provider	Name, email, mobile number, gender, dob, sub category, description, address	Harry, male, _____	Error: Fill all fields	Passed
		Name, email, mobile number, gender, dob, sub category, description, address	Harry, harry.com male, 1/2/2000, TV good service provider, Gwalior	Error: Wrong input	Passed
		Name, email, mobile number, gender, dob, sub category, description, address	Harry, harry@gmail.com male, 1/2/2000, TV good service provider, Gwalior	Service provider added	Passed
T9	Assign service provider	Service provider	_____	Error: Fill all fields	Passed
		Service provider	Harry	Service provider assigned	Passed
T10	Update complain status	Status	_____	Error: Fill all fields	Passed
		Status	Completed	Status updated	Passed

4.2 Recovery testing

Recovery testing is a test that comes under system testing and are conducted to ensure that the entire system working properly. In order to thoroughly test and analyse the computer-based system, it involves extensive project testing. Testing the project's ability to fully recover after a failure is known as recovery testing. This test was carried out to make sure that corrective action was taken in the event when an error occurred. We planned carefully and schedule to apply this test to ensure that every feature and function of the website is working properly without any errors.

4.3 Alpha testing

In alpha testing we and our team have tested all the function of the project internally such as complain, response on complain by admin, assigning service provider, and changing status of complain by admin and also reply of feedback by admin, and found that all the functions are working properly.

4.4 Compatibility testing

Compatibility testing refers to the process of testing any projects compatibility across with various operating systems, browsers, devices, platforms, and network settings. The objective is to ensure that the website functions work correctly and consistently for users.

Test case id	Element name	Element type	Expected result	Actual result
T1	Device Compatibility	Checking screen compatibility on different devices for e.g., laptops, tablets and desktops	Website should adapt different screen sizes on different devices without any disbalancing	Passed
T2	Operating System Compatibility	Checking working on different operating systems e.g., macOS, Windows etc.	There shouldn't be any changes in website designing, working, accessibility and performance speed, while switching the Operating System	Passed

Chapter 5: Implementation

Firstly, we need to install some IDE and other software for implementing our project successfully which are as follows: -

5.1 Visual Studio Code

- a. Visit the Visual Studio official website: [Download Visual Studio Code - Mac, Linux, Windows](#)
- a. Click on the "Download" button for the version of Visual Studio according to your operating system (e.g. Windows, macOS, or Linux).
- b. Choose the components you want to install, such as languages, frameworks, and tools.
- c. Click "Install" to begin the installation process, then follow the installation wizard's instructions to install this.
- d. Follow the instruction of installation wizard and select the options that suit your needs.

5.2 MongoDB

- b. Visit the MongoDB official website: [MongoDB Community Server Download](#)
- c. Select the suitable version of MongoDB from the website for according to your operating system (e.g. Windows, macOS, or Linux).
- d. To begin the download, click the "Download" button.
- e. After the download is finished, launch the installer and follow the installation wizard's instructions and select the options that suit your needs. Also make sure to check the box of Compass Installation which is a GUI to manage MongoDB.

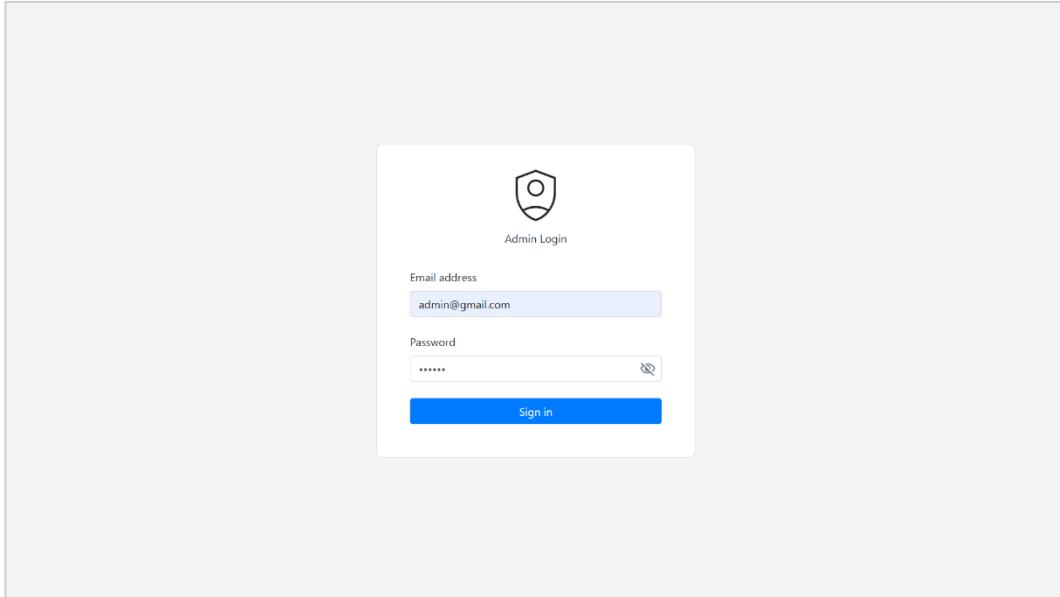
5.3 NodeJS

- a. Visit the Node.js official website: [Download Node.js](#)
- b. Pick the Node.js version that is compatible with your operating system (e.g. Windows, macOS, or Linux).
- c. To begin the download, click the "Download" button.
- d. Launch the installer after the download is finished. Choose the options that best suit your needs by following the installation procedure.
- e. After the installation is finished, you can verify that Node.js is installed correctly by opening a terminal or command prompt and typing node -v. This should show the latest version of Node.js that you installed, indicating that the installation was successful.

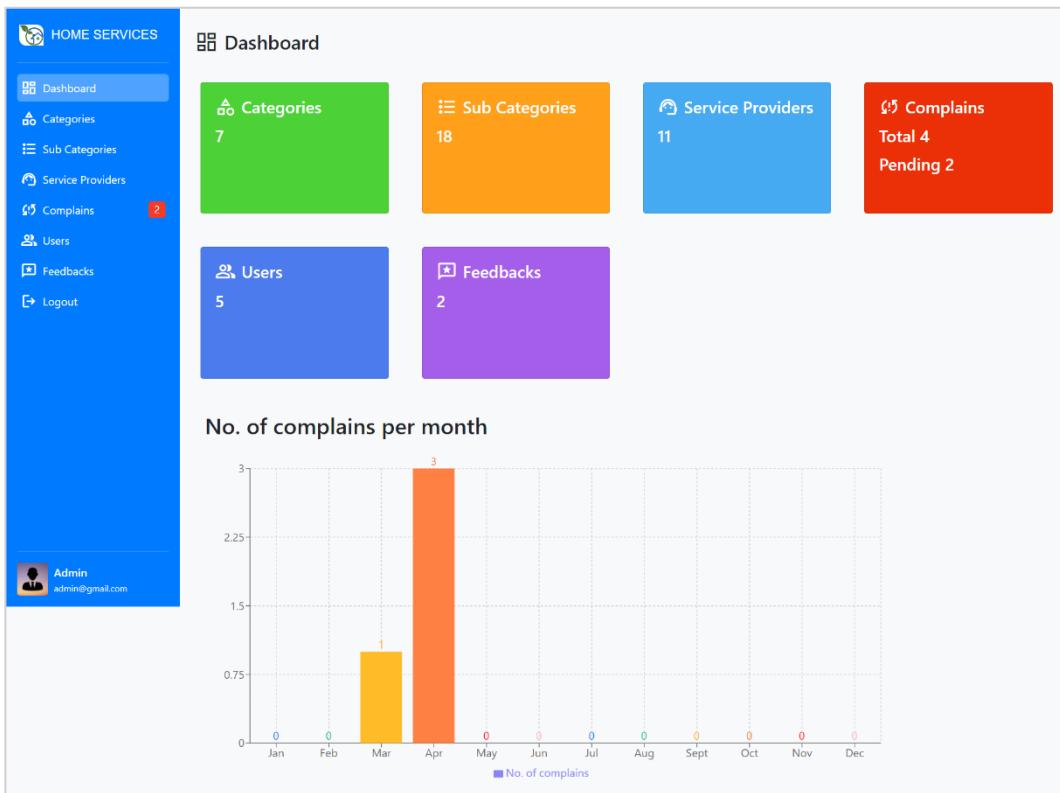
Chapter 6: Sample Forms and Reports

6.1 Admin Side

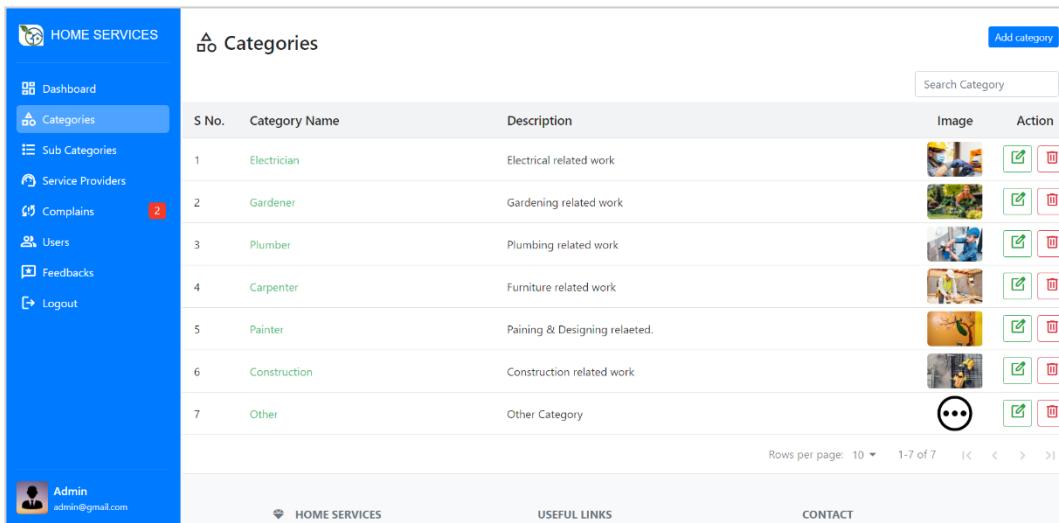
Login Page



Landing Page



Category Page



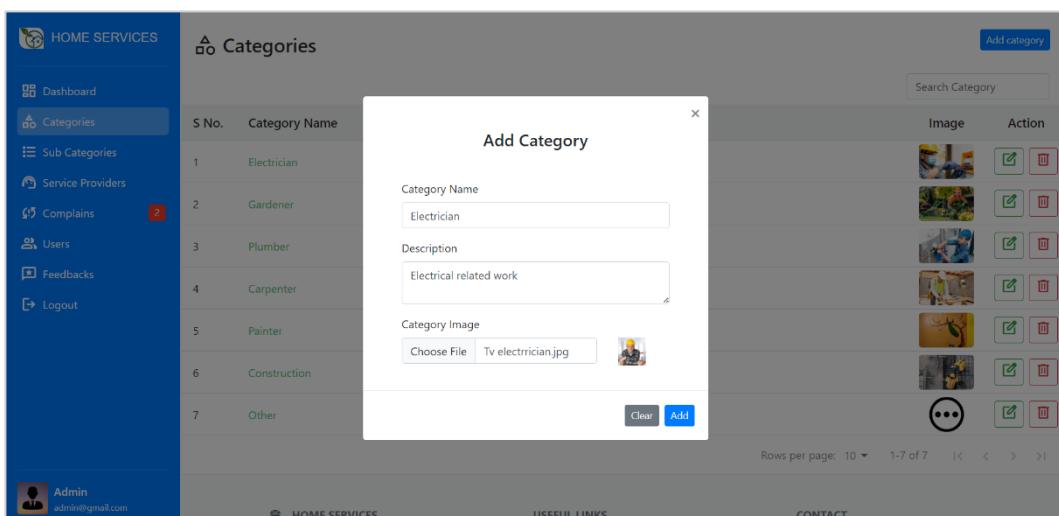
The screenshot shows the 'Categories' section of the 'HOME SERVICES' application. The left sidebar includes 'Dashboard', 'Categories' (selected), 'Sub Categories', 'Service Providers', 'Complains' (with a red notification badge), 'Users', 'Feedbacks', and 'Logout'. The user 'Admin' is logged in. The main content area displays a table of categories with columns: S No., Category Name, Description, Image, and Action. Each category row includes a small image, a green checkmark, and a red delete icon. The categories listed are: Electrician, Gardener, Plumber, Carpenter, Painter, Construction, and Other. A search bar and pagination controls are at the bottom.

S No.	Category Name	Description	Image	Action
1	Electrician	Electrical related work		
2	Gardener	Gardening related work		
3	Plumber	Plumbing related work		
4	Carpenter	Furniture related work		
5	Painter	Painting & Designing related.		
6	Construction	Construction related work		
7	Other	Other Category		

Rows per page: 10 1-7 of 7

HOME SERVICES USEFUL LINKS CONTACT

Category Register Page



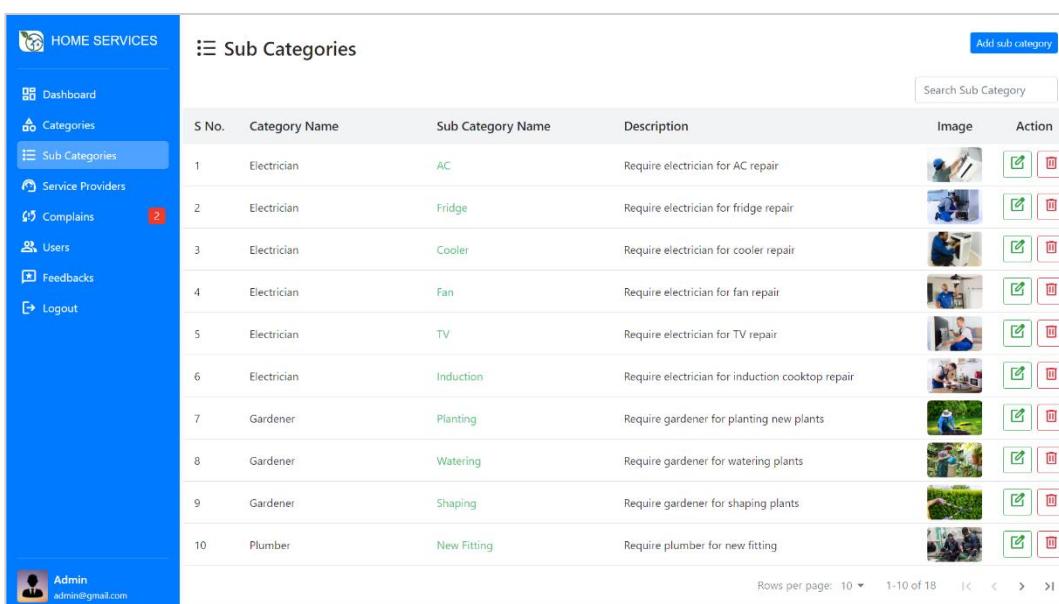
The screenshot shows the 'Add Category' modal over the 'Categories' list. The modal has fields for 'Category Name' (set to 'Electrician'), 'Description' (set to 'Electrical related work'), and 'Category Image' (set to 'Tv electrician.jpg'). The background table and footer are identical to the Category Page.

S No.	Category Name	Description	Image	Action
1	Electrician	Electrical related work		
2	Gardener	Gardening related work		
3	Plumber	Plumbing related work		
4	Carpenter	Furniture related work		
5	Painter	Painting & Designing related.		
6	Construction	Construction related work		
7	Other	Other Category		

Rows per page: 10 1-7 of 7

HOME SERVICES USEFUL LINKS CONTACT

Sub Category Page



The screenshot shows the 'Sub Categories' section of the 'HOME SERVICES' application. The left sidebar includes 'Dashboard', 'Categories' (selected), 'Sub Categories', 'Service Providers', 'Complains' (with a red notification badge), 'Users', 'Feedbacks', and 'Logout'. The user 'Admin' is logged in. The main content area displays a table of sub categories with columns: S No., Category Name, Sub Category Name, Description, Image, and Action. Each sub category row includes a small image, a green checkmark, and a red delete icon. The sub categories listed are: AC, Fridge, Cooler, Fan, TV, Induction, Planting, Watering, Shaping, and New Fitting. A search bar and pagination controls are at the bottom.

S No.	Category Name	Sub Category Name	Description	Image	Action
1	Electrician	AC	Require electrician for AC repair		
2	Electrician	Fridge	Require electrician for fridge repair		
3	Electrician	Cooler	Require electrician for cooler repair		
4	Electrician	Fan	Require electrician for fan repair		
5	Electrician	TV	Require electrician for TV repair		
6	Electrician	Induction	Require electrician for induction cooktop repair		
7	Gardener	Planting	Require gardener for planting new plants		
8	Gardener	Watering	Require gardener for watering plants		
9	Gardener	Shaping	Require gardener for shaping plants		
10	Plumber	New Fitting	Require plumber for new fitting		

Rows per page: 10 1-10 of 18

HOME SERVICES USEFUL LINKS CONTACT

Sub Category Register Page

S No.	Category Name
1	Electrician
2	Electrician
3	Electrician
4	Electrician
5	Electrician
6	Electrician
7	Gardener
8	Gardener
9	Gardener

Add Sub Category

Category Name:

Sub Category Name:

Description:

Sub Category Image:

Image	Action
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
	<input checked="" type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

Service Provider Page

S No.	Sub Category	Name	Email	Gender	DOB	Image	Action
1	AC	Vimal	vimal@gmail.com	Male	1999-05-02		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Fridge	Subham	subham@gmail.com	Male	1998-08-11		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	TV	Banti	banti@gmail.com	Male	2000-06-13		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4	Watering	Sanju	sanju@gmail.com	Male	1996-06-04		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
5	Planting	Simran	simran@gmail.com	Female	1999-01-12		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
6	Shaping	Priya	priya@gmail.com	Female	2001-07-24		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
7	Pipe Choke	Manoj	manoj@gmail.com	Male	2000-02-24		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
8	New Furniture	Santosh	santosh@gmail.com	Male	1998-10-20		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
9	New Contract	Ramesh	ramesh@gmail.com	Male	1998-04-14		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
10	Wall Designing	Annu	annu@gmail.com	Female	1997-11-20		<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Rows per page: 10

Service Provider Register Page

S No.	Sub Category	Name	Email	Gender	DOB	Image	Action
1	AC	Ramesh	ramesh@gmail.com	Male	1999-05-02		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Fridge	Subham	subham@gmail.com	Male	1998-08-11		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	TV	Banti	banti@gmail.com	Male	2000-06-13		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4	Watering	Sanju	sanju@gmail.com	Male	1996-06-04		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
5	Planting	Simran	simran@gmail.com	Female	1999-01-12		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
6	Shaping	Priya	priya@gmail.com	Female	2001-07-24		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
7	Pipe Choke	Manoj	manoj@gmail.com	Male	2000-02-24		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
8	New Furniture	Santosh	santosh@gmail.com	Male	1998-10-20		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
9	New Contract	Ramesh	ramesh@gmail.com	Male	1998-04-14		<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Complains Page

Complains

S No.	C No.	Sub Category	User Email	Serv.Prov.Email	Date	Status	Action
1	240416131631	TV	mohan@gmail.com	Not Assigned	2024-04-16 13:16	Pending	Edit
2	240416124726	Wall Designing	mohan@gmail.com	annu@gmail.com	2024-04-16 12:47	Pending	Edit
3	240416122858	New Furniture	shyam@gmail.com	santosh@gmail.com	2024-04-16 12:28	Completed	Edit
4	240416121340	Repair Furniture	shyam@gmail.com	Not Assigned	2024-03-16 12:13	Rejected	Edit

Rows per page: 10 | 1-4 of 4 | < < > >|

HOME SERVICES
We provide best service

USEFUL LINKS
Categories | Sub Categories | Service Providers | Complains | Users | Feedbacks

CONTACT
ABC, NY 10012, IN | homeservice@gmail.com | +91 9345678885 | +91 8345678975

Admin admin@gmail.com

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Complains Details Page

Complains

Complain Details

S No.	C No.	Complain No.	Complain Date	Status
1	240416131631	240416131631	2024-04-16 13:16	Pending
2	240416124726	240416124726	2024-04-16 12:47	Pending
3	240416122858	240416122858	2024-04-16 12:28	Completed
4	240416121340	240416121340	2024-03-16 12:13	Rejected

Page: 10 | 1-4 of 4 | < < > >|

CONTACT
ABC, NY 10012, IN | homeservice@gmail.com | +91 9345678885 | +91 8345678975

HOME SERVICES
We provide best service

USEFUL LINKS
Categories | Sub Categories | Service Providers | Complains | Users | Feedbacks

Assign Service Provider
Banti (TV) [Cancel](#) [Assign](#)

Admin admin@gmail.com

Users Page

Users

S No.	Name	Email	Mob No.	Gender	Address	Image	Action
1	Suresh Singh	suresh@gmail.com	9512345678	Male	Kampoo Gwalior		Edit
2	Geeta Kumari	geeta@gmail.com	7897894645	Female	Thatipur Gwalior		Edit
3	Rashmi Singh	rashmi@gmail.com	9896665544	Female	Padav Gwalior		Edit
4	Mohan Sharma	mohan@gmail.com	6689778999	Male	Amkho Gwalior		Edit
5	Shyam Kumar	shyam@gmail.com	8968569659	Male	Bada Gwalior		Edit

Rows per page: 10 | 1-5 of 5 | < < > >|

HOME SERVICES
We provide best service

USEFUL LINKS
Categories | Sub Categories | Service Providers | Complains | Users | Feedbacks

CONTACT
ABC, NY 10012, IN | homeservice@gmail.com | +91 9345678885 | +91 8345678975

Admin admin@gmail.com

Feedback Page

The screenshot shows a web application interface for managing feedback. On the left, a sidebar titled 'HOME SERVICES' contains links for Dashboard, Categories, Sub Categories, Service Providers, Complains, Users, and 'Feedbacks' (which is highlighted in blue). Below the sidebar is a user profile for 'Admin' (admin@gmail.com). The main content area is titled 'Feedbacks' and displays a table of feedback entries. The table columns are: S No., User, C No., Date, Message, Reply, Rating, and Action. There are two entries:

S No.	User	C No.	Date	Message	Reply	Rating	Action
1	shyam@gmail.com	240416122858	2024-04-16 12:42	Good service provided	Not Responded	4	
2	shyam@gmail.com	240416121340	2024-03-16 12:32	Why my complain get rejected?	Currently we don't have repair furniture worker available	1	

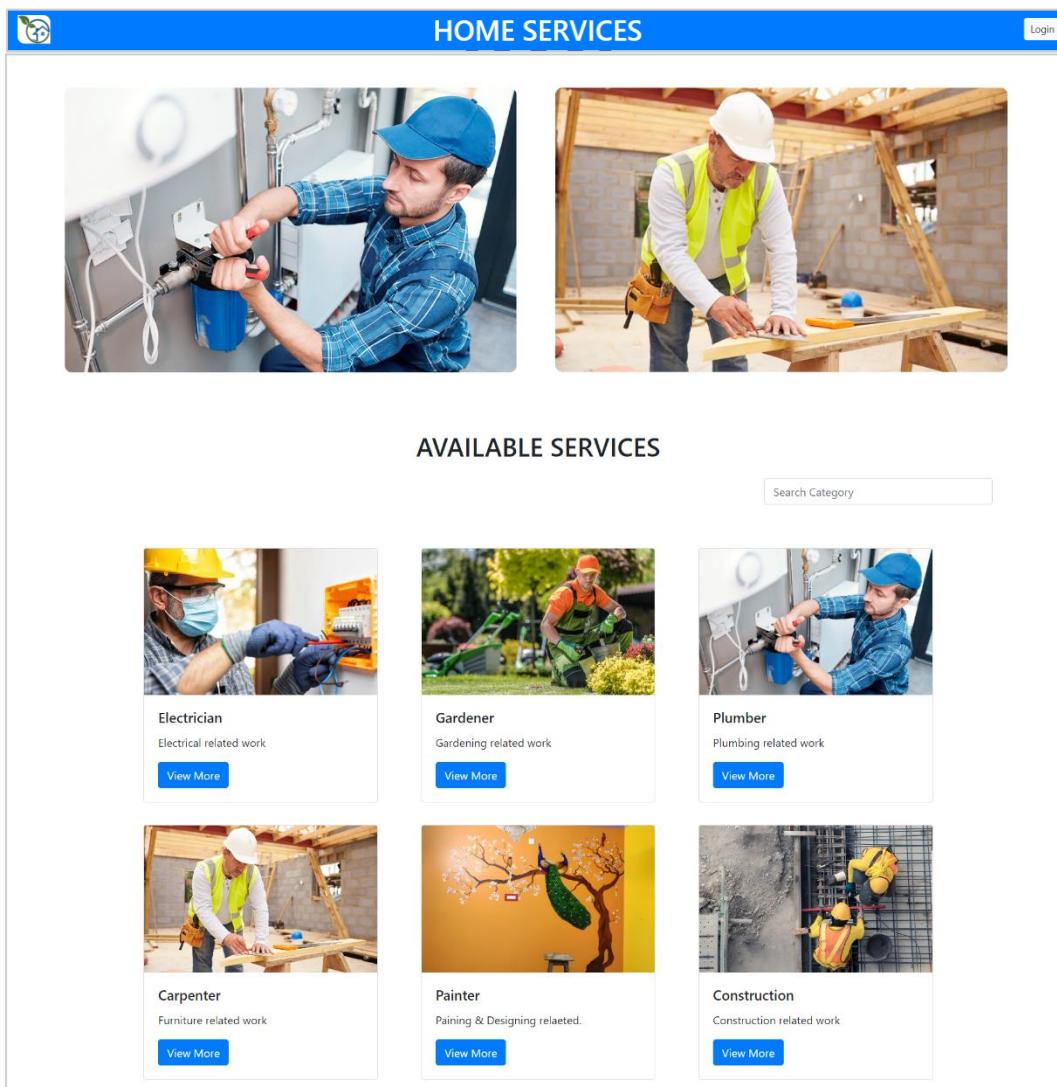
Below the table, there is a message 'Rows per page: 10 1-2 of 2 < < > >' and a footer with 'Copyright © 2024. All rights reserved.' and social media links (Facebook, Twitter, Google, LinkedIn, Home).

Feedback Reply Page

The screenshot shows the same web application interface as the previous screenshot, but with a modal window open over the 'Feedbacks' table. The modal is titled 'Reply' and contains a text area with the placeholder 'Write Here...' and a message 'Thankyou'. At the bottom of the modal are 'Clear' and 'Send' buttons. The background table and footer are visible but appear dimmed or faded.

6.2 User Side

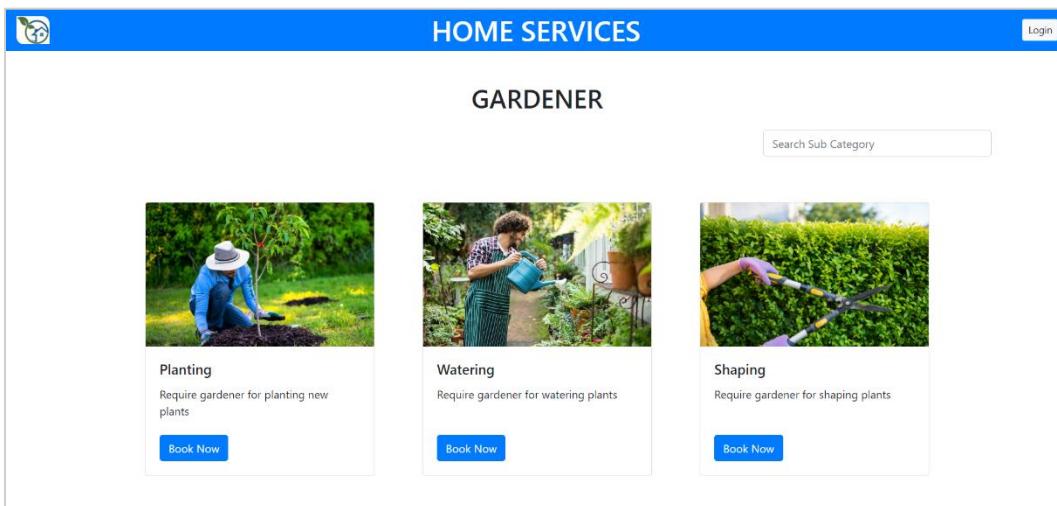
Landing Page



The screenshot shows the 'HOME SERVICES' landing page. At the top, there are two images: one of a plumber working on a pipe and another of a carpenter working on a wooden structure. Below these images, the title 'AVAILABLE SERVICES' is centered. To the right of the title is a search bar labeled 'Search Category'. The page then displays six service categories in a 2x3 grid:

Service Category	Description	View More
Electrician	Electrical related work	View More
Gardener	Gardening related work	View More
Plumber	Plumbing related work	View More
Carpenter	Furniture related work	View More
Painter	Painting & Designing related.	View More
Construction	Construction related work	View More

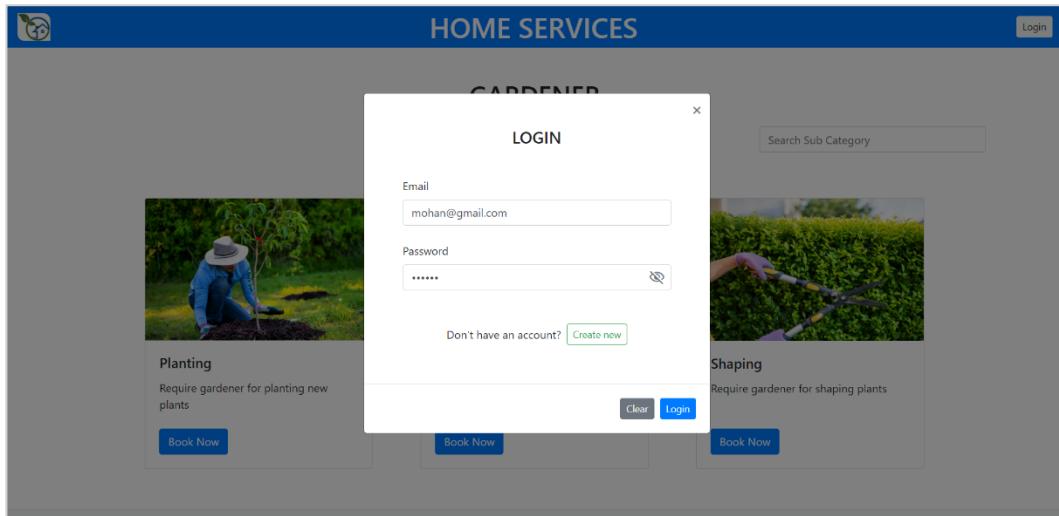
Sub Category Page



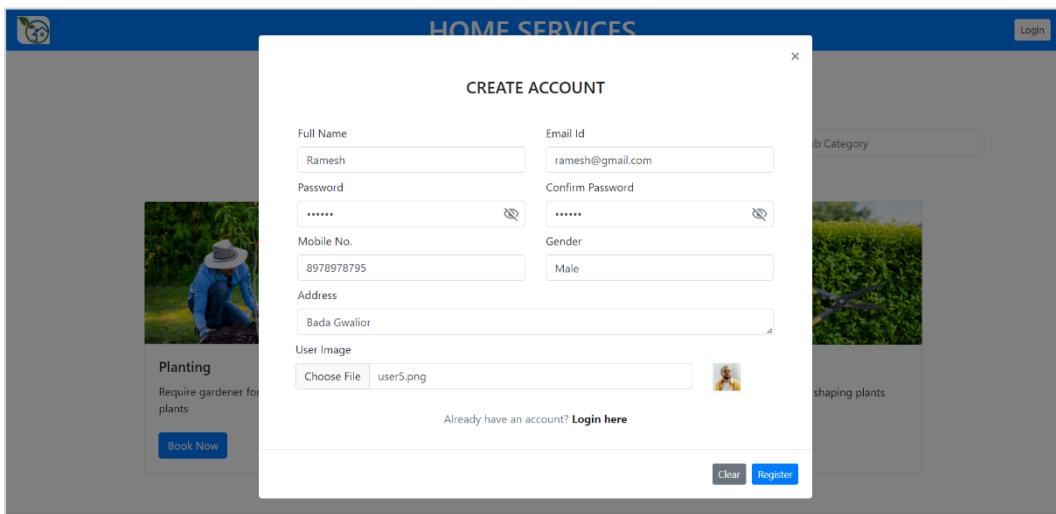
The screenshot shows the 'GARDENER' sub category page under the 'HOME SERVICES' header. At the top, there is a search bar labeled 'Search Sub Category'. The page displays three service options in a grid:

Service Option	Description	Book Now
Planting	Require gardener for planting new plants	Book Now
Watering	Require gardener for watering plants	Book Now
Shaping	Require gardener for shaping plants	Book Now

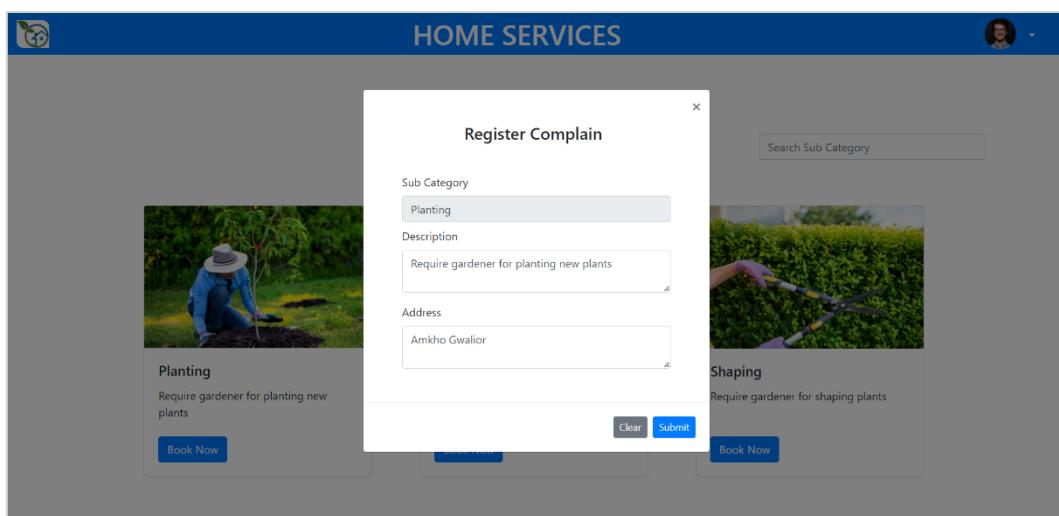
Login Page



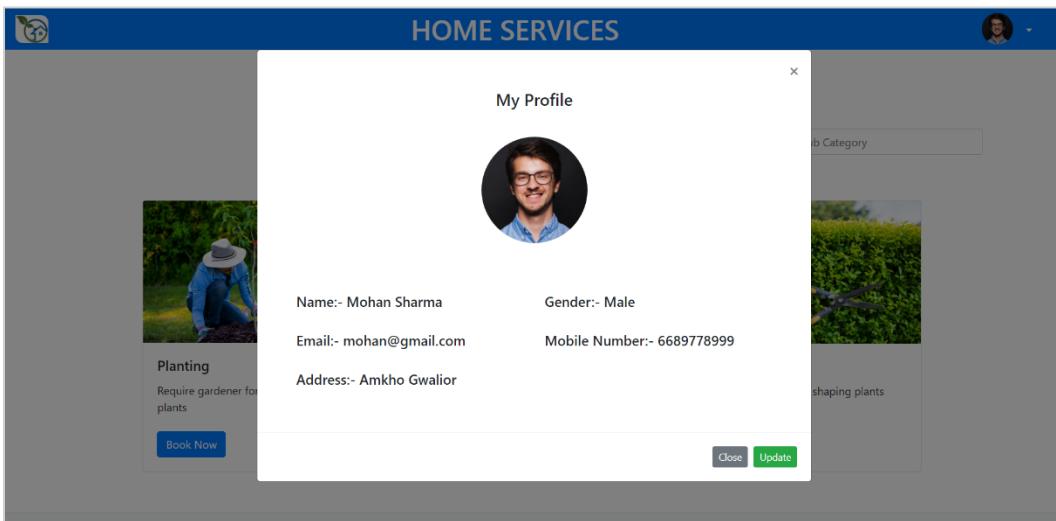
Register Page



Complain Register Page



User Profile Page



Complains Page

The screenshot shows a table titled 'My Complains' with the following data:

SNo.	C No.	Sub Category	Serv.Prov.Email	Serv.Prov.Mob	Date	Status	Description	Address	Serv.Prov.Img	Action
1	240416131631	TV	Not Assigned	Not Assigned	2024-04-16 13:16	Pending	TV has stopped working	Amkho Gwalior		
2	240416124726	Wall Designing	annu@gmail.com	7879569996	2024-04-16 12:47	Pending	Need a good wall designer for dining hall	Amkho Gwalior		

Rows per page: 10 | 1-2 of 2 | < < > >|

Below the table, there are footer links for HOME SERVICES, USEFUL LINKS, and CONTACT, along with social media icons and a copyright notice.

Feedback Page

The screenshot shows a table titled 'My Feedbacks' with the following data:

S No.	C No.	Date	Message	Response	Rating	Action
1	240416122858	2024-04-16 12:42	Good service provided	Not Responded	4	
2	240416121340	2024-03-16 12:32	Why my complain get rejected?	Currently we don't have repair furniture worker available	1	

Rows per page: 10 | 1-2 of 2 | < < > >|

Below the table, there are footer links for HOME SERVICES, USEFUL LINKS, and CONTACT, along with social media icons and a copyright notice.

Chapter 7: Conclusion and Future Scope

Conclusion

In this busy world, this system will reduce extra burden from house owner of finding best service provider when needed. He can easily book for any of his required service just on a single click from anywhere for any address. Also due to urbanization demand of such type of Home Services is also increasing and traditional way of providing home services is getting insufficient to handle such large demand. Due to improper management of services home owners have to wait long to get any service at their home. So, this Home Service system is design to provide better facility to manage such large demand. This system will also provide home owners a great convenient in finding and booking for a service online while sitting at their home.

The online platform Home Services has great potential as it provides convenience and accessibility to customers who may not have time or unable to visit in search of service providers or newly shifted to any place. With increase in trend of technology and shifting of peoples from one place to another the demand for this platform is likely to grow in future. However, it is important to consider factors such as quality control and worker's behaviour towards customer.

However, it is important to ensure fast and instant service. Implementing effective strategy for marketing to reach large number of users and building a strong online presence through social media can also contribute to the success of the project. With proper planning and execution this online platform can play a major role in providing better home services. This will include revenue and expense forecasts for the first few years of operation. This is going to help in determining the project's long-term viability and possible return on investment.

Future Scope

The online home services system is designed to cater to common home service needs. It adapts flexibly to changing user requirements and can easily accommodate additional services. Currently, the system offers services like home designing, cleaning, plumbing, electrician, gardening, and carpenter. However, we can extend it to include a broader range of services such as mobile and computer repair, laundry, catering, and more. To ensure seamless user experience we must train our workers regarding behaviour and be polite during conversation with customer where they are going to visit.

Currently this system is a web application and in future this can be converted in mobile application so to install on android devices and Apple IOS devices to run smoothly and can be operated by any user easily just installing it from authorized platforms such as from the Apple iOS app store and the Google Play Store.

Currently this system contains offline payment system which can also be upgraded to online payment system such as by adding support of MasterCard payments, Visa payment system and UPI system to receive service charges in online mode. In this way, users can conveniently access a variety of services and choose their preferred payment options. Google map can also be integrated which will help service provider to find user's location easily and reach to provided address without any delay.

Advantages

Home Services system is web-based application designed to properly manage home services and provide best service to customers. It is a centralized system for many necessary small services which everyone needed sometime such as plumber, electrician, carpenter etc. This system provides a platform to peoples living in societies and colonies to book for any services and call the service person on their address.

To book any service on our website, users can book from anywhere for any address and call our service provider at their place for any service by using their email address and password. This platform will also help in reducing e-wastes and reduce accidents due to damaged appliances and furniture. This will also provide call support to contact for any query.

The Home Service system aims to provide a solution to manage homes and its appliances and other useful items efficiently and effectively so that they can keep working for long time. This project will help the employees and office workers who don't have time to roam market to market in search for a service provider. We have designed the interface of the web site very simple and user friendly so there should not be any problem in using it, whether user is young or not or any old aged person.

This platform facilitates communication between customers and service providers, ensuring effective scheduling, open pricing, and reliable service delivery. This streamlined communication enhances the overall customer experience and ensures full satisfaction of customer. After booking of any service user will be provided contact details of service person to contact further. This system saves lot of time and efforts of people.

This system also provides tracking of complain which provide users to track the progress of their service requests. Knowing when a service provider will arrive or when the task will be completed helps homeowners plan better for their other work. After the work get done user can give reviews and rating for service providers on basis of his satisfaction. This transparency helps others make informed decisions and ensures accountability among service providers.

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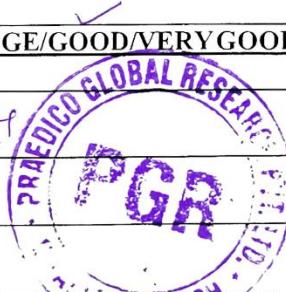
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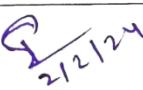
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Industry Organization	Praedico Global Research Pvt Ltd.				
Criterion	Poor	Average	Good	Very Good	Excellent
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Learning capacity Knowledge up gradation			✓		
Performance Quality of work			✓		
Behaviour Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Learn HTML, CSS and JavaScript				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Sweety Gupta				
<u>Signature of Industry Mentor</u>					

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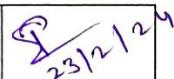
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Industry / Organization	Praedico Global Research Pvt. Ltd.		Date / Duration	16/01/24 - 31/01/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality / Timely completion of assigned work				✓	
Learning capacity / Knowledge up gradation			✓		
Performance / Quality of work			✓		
Behavior / Discipline / Teamwork				✓	
Sincerity / Hard work			✓		
Comment on nature of work done / Area / Topic	Learn Bootstrap, Advance JavaScript (ES6), Introduction of React				
OVERALL GRADE (Any One)	POOR / AVERAGE / GOOD / VERYGOOD / EXCELLENT				
<u>Name of Industry Mentor</u>	Sweety Gupta				
<u>Signature of Industry Mentor</u>	 <i>Dupts</i>				

Receiving Date	02/02/24	Name of Faculty Mentor	PARUL SAXENA	Sign	
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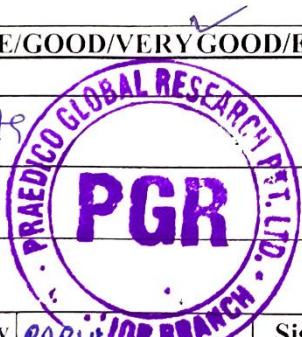
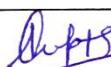
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Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	01/02/24 - 15/02/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	React setup, components, Hooks, Props and React Bootstrap Integration				
<u>OVERALL GRADE</u> <u>(Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor					

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Industry/Organization	Praedico Global Research Pvt Ltd		Date/Duration	16/02/24 - 29/02/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Working on Frontend Development using React and Bootstrap				
<u>OVERALL GRADE (Any one)</u>	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
<u>Name of Industry Mentor</u>	Seetey gupta				
<u>Signature of Industry Mentor</u>	 				

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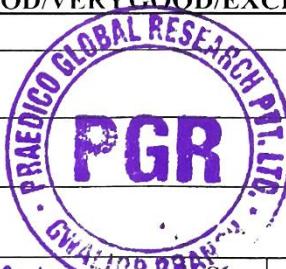
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Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked on Node.js, Express.js, MongoDB for Backend & DataBase				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	 PGR				

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MENTOR

Name of student	nikash kumar				
Industry/Organization	Praedico Global Research Pvt Ltd				
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked on Project using MERN Technology.				
<u>OVERALL GRADE (Any one)</u>	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
<u>Name of Industry Mentor</u>	Sweety Gupta				
<u>Signature of Industry Mentor</u>					

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Name of student	Vikash Kumar		Department	MCA	
Industry/Organization	Preedio Global Research Pvt. Ltd.		Date/Duration	01/04/24 - 15/04/24	
Criterion	Poor	Average	Good	Very Good	Excellent
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Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
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Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Worked on Project				
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