

Home Based Service Management Application

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Abstract:

Smart phones is an essential tool for communication and have become an integral part of our daily lives due to quick advancements in technology. In India today, it is difficult for people to locate and employ close professionals to perform repairs and to provide maintenance service for their house and workplaces. Newcomers to the city are also faced with the challenge of not being able to find a good worker nearby due to the absence of such a system. It is crucial to create a platform that can use cutting-edge technological advancements to provide an intuitive and usable interface for both technical staff and end users, bridging the communication gap between them in order to solve this issue. This project suggests a mobile application for service provider for android smart phones as a way to maximise the uses of mobile devices. This suppose be a wonderful place to start if you want to accomplish your goal of making the most of mobile technology. With the help of this android app, users and professionals with various levels of technical expertise can communicate.

Key words: Smart Phones, communication, maximise, cutting-edge, expertise

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I. Introduction

The world is evolving, and things are changing quickly. In today's world, people use cutting-edge machinery to carry out their responsibilities. Due to their modernity, people conduct their business using computers and mobile devices. Nearly all facets of life involve the usage of this equipment. Mobile equipment have changed the way we work in every area. Mobile is necessary in every industry. In the modern world, the mobile innovation is crucial. Businesses, educational institutions, research institutes, which utilize mobile devices for a variety of tasks, such as information management.

To provide consumers with a basic service, a home-based service finder app was created. It serves as a communication medium between users, employees, etc. By looking up nearby workers and various types of jobs, this app seeks to deliver hassle-free service to users on time. This programme was developed with all users in mind, but it primarily serves the needs of numerous plumbers and electricians employed by this company, who offers service for any types of home services and rapidly resolve all plumbing and electrical issues. This is a mobile-based application that may be displayed to both users and plumbers alike. This application's goal is to assist users in discovering workers, and it also prompts workers to locate users' zones. Our application was created to give users and employees conveniences, ensuring that all data is secure and services are delivered swiftly and conveniently.

Our application is currently being developed, and it primarily consists of three modules: admin, users, and workers. Superuser Admin is a user. An administrator can create or remove worker categories by logging into the system. Add or remove a district, admin. Admin can add or remove cities. The application's administrator can view and remove the users who have registered. Additionally, he has the ability to see, modify, and delete any registered employees. He can choose to examine or remove both the users' information and the booking reports. The application's second module, called Worker, allows users to sign up by providing the required information. Workers have access to the user-posted list of complaints and services. Employees can accept the desired services or complaints. Employees can provide updates on complaints or services. Employees can provide updates on complaints or services. He is able to see and handle the user's reservations. The profile can be updated by users. The password can be updated by users. The program allows users to register and receive their user name and password. Employees (workers) can be viewed by users. Users have access to the posted grievances and employee information. GPS allows users to upload location information. The profile can be updated by users.

Proposed system

The problem comes when it's tough to find service-competent employees or dependable suppliers that consistently deliver faultless service, such as when someone needs assistance with routine but crucial home

responsibilities. The quickest and least bothersome way to perform your home responsibilities is using our online housekeeping system. A system that creates a positive and healthy house involves a different types of mechanical and electrical duties to be able to gratify clients. We work to provide you with the most effective solutions for every one of your household's problems with increased comfort, efficiency, & most importantly, a delicate touch. By only single click, highly expert core experts can be employed, and the service you need will be carried quickly.

II. SYSTEM DESIGN

The programme modules will be arranged in a decent system design in a method that makes them simple to produce and modify. Programme size and complexity can be managed by developers with the use of structured design techniques. Analysts provide advice to developers on how to write code and how to combine pieces of code to make programmes.

Software engineering is the practise of inventing, constructing, testing, and maintaining software. Software engineering seeks to create durable, effective, and simple to maintain technology. A key component of system development in software engineering is making decisions on the structure, elements, sections, interfaces, and data of a software system.

The strategy used to create a software system is referred to as the system design strategy. Software systems can be designed using a variety of techniques, such as the following:

1. Top-Down Design: With this strategy, the apparatus is first given a broad perspective before being subsequently broken farther into more useable components.
2. Bottom-Up Design: Using this approach, start with individual parts and slowly assembles the system.
3. Iterative Design: According to this plan, the system will be developed and put into use phases, each one building on the last outcomes of the one before it.
4. Incremental Design: With each iteration, new functionality is added by designing and implementing a tiny portion of the system at a time.
5. Agile Design: This strategy uses an adaptable, iterative approach to design, where specifications and designs are combined

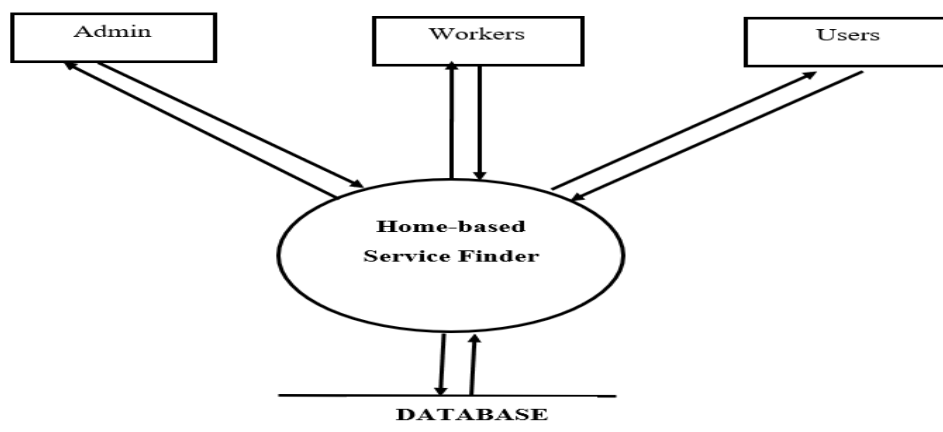


Figure 2 : Representing the context in the form of diagram

III. RESULTS AND ANALYSIS

Analysis of Test Csaes

Categories List Page

Test Cases	Expected Results	Actual Results
Click on save after entering Categories.	Category ought to show up in the list and be kept in the database.	The list includes the saved and displayed category.
Click on delete link category list.	The list should be cleared of Category.	Category is removed in line with the test case's instructions.

Admin Login page

Test Cases	Expected Results	Actual Results
Click on sign in button after entering username and password	Only authorised people should be able to log in and verify.	User has administrator access.

RESULTS



Figure 3.2.1 : Users and Workers Log in page

The Users and Workers Log-in Page serves as the gateway for both users and service providers (workers) to access the Homebased Service Management application. This page provides a secure and personalized entry point, tailored to the distinct needs of these two user groups.

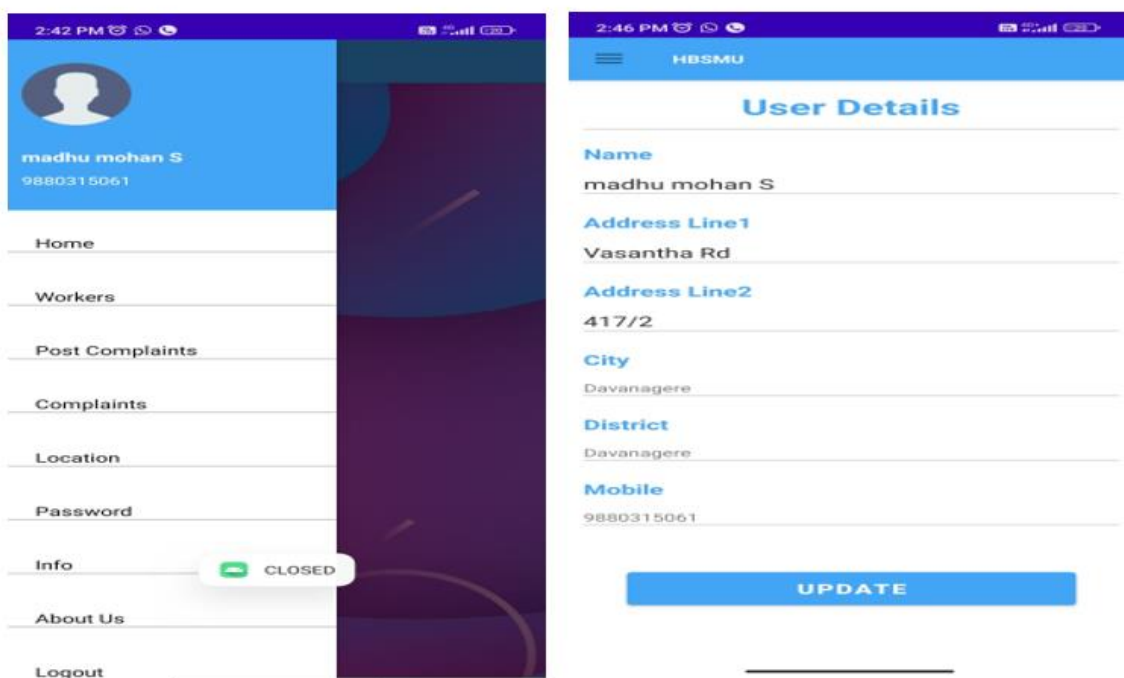


Figure 3.2.2 : User's Details update

Users can log in using their registered credentials to access the application's features. They can view a dashboard displaying recommended services, search for specific home-based services, browse service providers' profiles, book appointments, and manage their bookings. The log-in page ensures the privacy and security of user data and allows them to seamlessly interact with the platform.

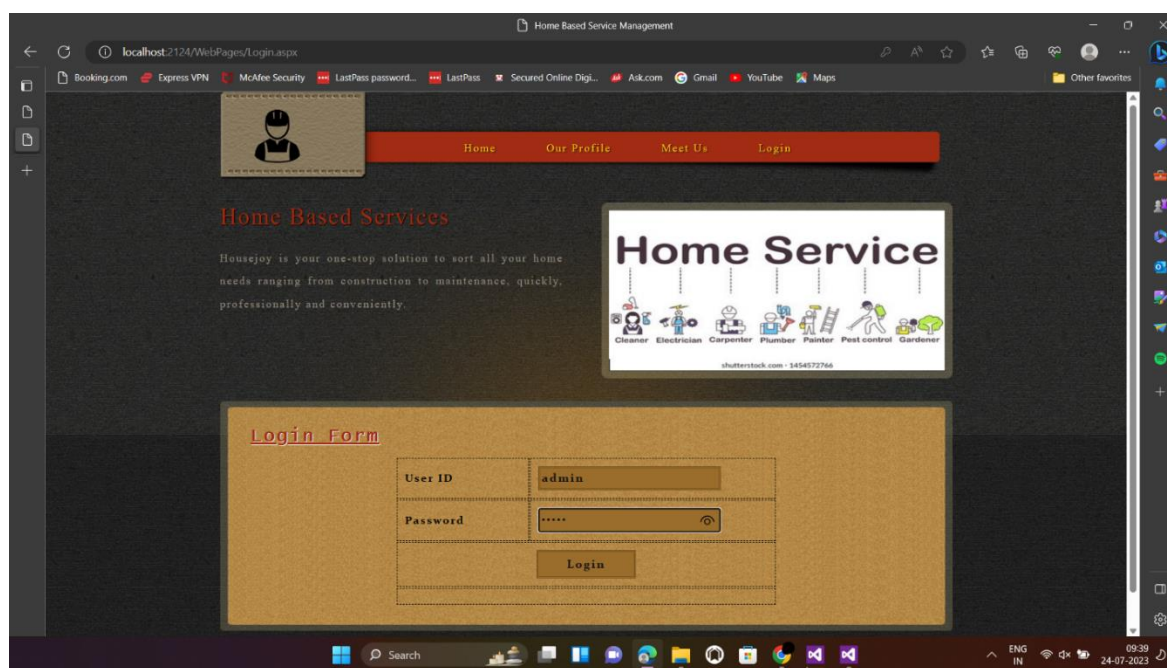


Figure 3.2.3 : Admin's Log in page

The Admin's Login page serves as a secure entry point for authorized administrators to access the backend of a system or application. It provides a controlled and authenticated access point to manage and oversee various aspects of the system's operations. The login page typically includes fields for entering a valid username and password, which are verified against a stored database of authorized admin credentials.

IV. CONCLUSION

By dispatching service workers to your door with a single click, the suggested strategy makes it simpler to locate answers within for the services. The system's users can access our services more easily and pleasantly in a structured mobile setting. We offer all your needs for plumbing, electricity, and other tasks to be completed by highly qualified and background-verified professionals with just one click at any moment from anywhere. This programme is dependable and satisfies all client needs. This element can be tied to several distinctive architectures with success

The problems that existed in the past framework have been greatly reduced. It is anticipated that this task will go a long way toward satisfying the client's requirements. In addition to increasing efficiency, computerizing utility administration will also reduce employee stress, so indirectly improving human resources. Our application assists to reduce roaming to the service center and makes it easier for the consumer to understand the plumbing services.

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