

A Location-Based Handyman Services Website

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ABSTRACT- *To use services like plumbing, electrical, electronic, mechanical, pest control, home painting, and machine maintenance, customers can either book a personal meeting or make a mobile call. Consumers frequently struggle to find emergency services, regardless of the time or place. Hence, to help consumers find a solution to any problems connected to numerous household services at any time and location, we built a website. The Handyman Project addresses the need for homeowners and businesses to have access to dependable and effective handyman services. This need can be attributed to several factors, including local demand, market influence, having multiple locations, maintaining commercial properties, and people's lives becoming more hectic, which results in an increase in people looking for help with small jobs around the house, like changing light fixtures. By offering a user-friendly platform that links clients with knowledgeable and qualified handymen who can execute projects quickly and expertly, The Handyman initiative seeks to address this issue. Additionally, our project will give features like security, the ability for users to choose the closest service provider, and a feedback feature for service providers.*

Keywords- *Handyman, Household services, GPS-based platform, On-demand services, User feedback, Admin approval, Location data, Service quality, Customer satisfaction.*

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I. INTRODUCTION

Due to the increased use of technology in recent years, the household services business has seen a substantial transition. There is an increasing need for on-demand services that are accessible through mobile devices due to the widespread use of smartphones and the internet. In response to this trend, several web-based platforms have appeared that quickly and easily link users with service providers.

The Handyman project, a PHP-based GPS-based online application, is one example of such a platform. For homes in need of services like plumbing, carpentry, and electrical repairs, it strives to offer a seamless and effective solution. Three different user types are catered for by the platform: Admin, Users, and Service Providers.

The Users can log in at any time, choose the needed service, and use GPS to schedule the closest Service Provider. In addition, they can give a thorough explanation of the work that has to be done, offer comments to the service provider, and file complaints against them if the service is subpar.

After presenting acceptable identification and awaiting admin clearance, service providers can register for a particular service. They can read the user-provided description to get a better understanding of the job needs as well as view, accept, and reject user requests for services.

The Admin is in charge of approving Service Provider registrations, confirming their legality, and settling any issues that may arise between users and Service Providers. Additionally, they guarantee the platform's security and safety.

In this essay, we'll talk about how well the GPS-based Handyman project performs on-demand services for the home services sector. We will look at the platform's features and how they affect the comfort and happiness of users and service providers. We'll also examine the Admin's responsibility for upholding the platform's security. Finally, we will offer suggestions for enhancing the platform in the future.

II. LITERATURE REVIEW

In recent years, the household services sector has seen a sharp increase in the usage of technology. Several studies have emphasized the advantages of GPS-based handyman services, which provide users with convenience and accessibility. The use of GPS technology in the sector of home services can enhance service quality and client happiness, according to a study by Lee et al. (2016). In a similar vein, Liu et al. (2018) discovered that the usage of GPS-based platforms can increase service delivery efficiency and lower costs for service providers.

A variety of capabilities are available to users, service providers, and administrators through Handyman. The portal allows customers to choose home services, reserve the closest service provider using GPS, describe the work that has to be done in detail, write feedback, and file complaints. On the other hand, service providers can register and sign up, view and approve or reject user requests for services, and read service descriptions offered by users to better comprehend the demands of the position. The platform's administrators are in charge of authorizing registrations, approving registrations, managing disputes between users and service providers, and maintaining the platform's safety and security.

III. EXPERIMENTAL

A. Methodology

Gathering Location Information: The initial stage is to gather location information for both service providers and clients. There are several ways to accomplish this, including address lookup, user input, and GPS tracking.

Determining Distances: The website can use the latitude and longitude coordinates to determine the distance between the customer and the available service providers once the location data has been gathered.

Local Service Providers Displayed: The website can then show the user a list of close-by service providers based on the estimated distances. This list can be sorted by proximity or other factors like price, rating, or availability.

Enabling Service Provider Selection: Based on their tastes and needs, the client can choose a service provider from the list.

Booking and Scheduling: The website can then make it easier to book and schedule the chosen service provider, allowing you to choose particular days, hours, and services.

Routing and Navigation: After a reservation is made and confirmed, the website can give the service provider information about routing and navigation, including the address and other pertinent details of the consumer.

IV. EXPERIMENTAL RESULT

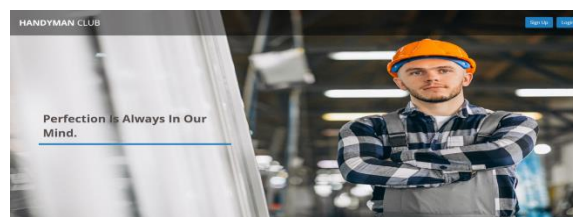




Figure 1: Home Page

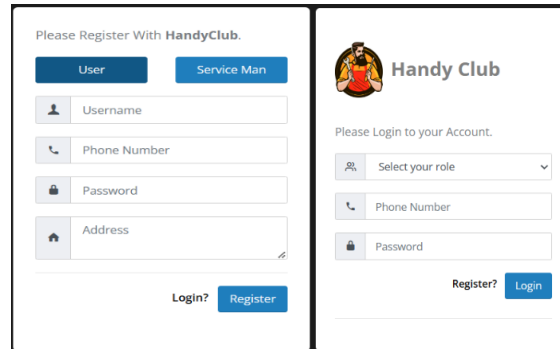


Figure 2: Register and Login Page

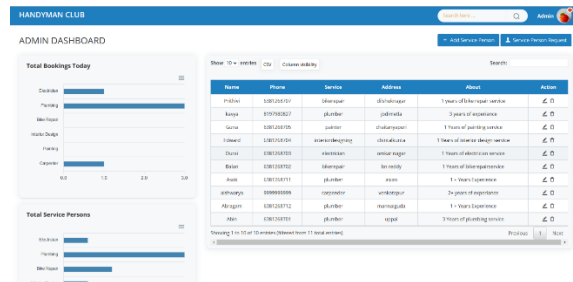


Figure 3: Admin Dashboard

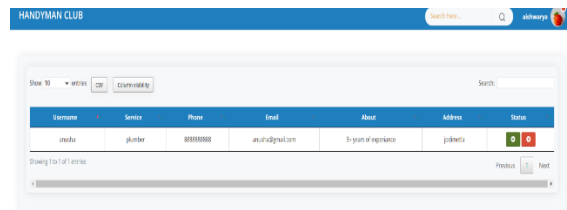


Figure 4: Admin verifying the service man

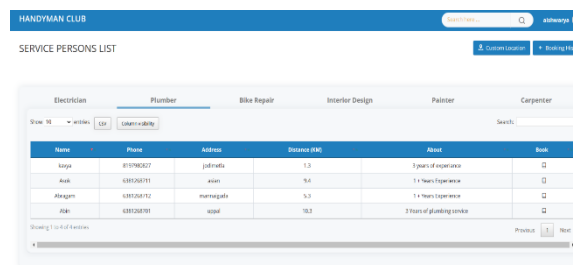


Figure 5: List of a serviceman and the distance

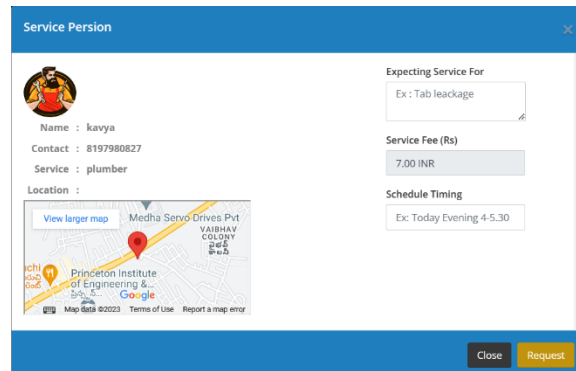


Figure 6: Booking page

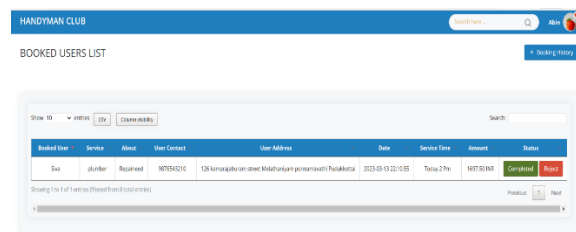


Figure 7: Serviceman receiving the user's request

V. CONCLUSION AND FUTURE WORK

The recommended technique makes it easier to find internal solutions for the services by sending service personnel to your door with a single click. System users can use our services more conveniently and comfortably in an organized mobile environment. With the assistance of experts who are suitably qualified and have a solid track record, all of your plumbing, furniture repair, electrical work, automobile servicing, and many more services can be accomplished with a click at any time from any location.

Some of the most in-demand home services are available on the handyman's website. This system fulfills the requirements of the end user. Future needs for which the website can provide a sufficient service can be anticipated and the system as a whole can be structured to have extensible capacity. The current system, for instance, provides the following services: bike repair, carpenter, electrician, interior design, and plumber repair and servicing. In addition, the system can be upgraded to meet user needs. The system can be made more durable by adding more services like mobile and computer repair, washing, catering, pesticide, and painting, among others.

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