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THE HANDYMAN BOOKING APPLICATION USING REACT NATIVE, HYGRAPH AND EXPO.

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ABSTRACT

In recent times, there has been a surge in demand for convenient home repair services globally. When faced with challenging home issues that individuals cannot resolve themselves due to busy schedules, they seek reliable workers for maintenance and repairs. However, finding workers offline at the right time and price can be difficult. This online platform simplifies the process by allowing users to easily book skilled workers who can promptly arrive at their doorstep. Handymen can showcase their expertise and services through a dedicated login, facilitating opportunities and earnings based on their work. The website offers various categories and services, listing workers based on location, cost, and contact details upon user login. By leveraging React native for application development, the platform ensures speed, enhanced productivity, and search engine optimization benefits. Hygraph, being schema-less and scalable, streamlines data management, reducing delays and challenges for users.

Keywords *- Handyman services, Application, React Native, Expo, Hygraph, Mobile Application Development.*

INTRODUCTION

Given the prevalent use of computers and the internet, performing tasks online is more convenient and time-saving compared to traditional offline methods. With people's busy schedules, maintaining and repairing homes can be challenging, leading to the need for trusted professionals who can handle such tasks efficiently and confidentially. However, finding reliable professionals offline can be difficult and costly, often resulting in delays. To address this issue, this paper introduces an online platform that connects customers with skilled professionals, offering a wide range of maintenance and repair services to ensure homes are well-maintained with prompt and reliable assistance.

In the current scenario, the usage of the computer and the internet are huge. It is easy to do work online compared to offline, and we can save more time. People are busy with their schedule and work, it's tough for them to maintain and repair their homes. Many people think that their house is their pride, and they do not have the proper time to maintain it. In case any issue is encountered, it becomes a hectic problem for them to resolve. For this situation, they require a professional who is confidential to repair, maintain their home, but it's a massive task for them to find a trusted professional offline. In offline mode, the professional can charge high, and the work may delay. To help people from coming out with this kind of issue, this paper provides a site that offers all types of maintenance and repair works for the customer with professional workers. In the current

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RELATED WORK

Initially, workers operated independently without a centralized system, relying on their professionalism. Various websites and technologies, such as blockchain, have emerged to verify workers' credentials and assess their capabilities, ensuring trust and transparency. Decentralized workers contributed to startup ideas and product deliveries via websites, leading to proposals for connecting domestic workers with clients, although these involved machine verifications and processes that compromised safety and could slow down operations. In contrast, this application ensures worker verification by the admin for enhanced safety and efficiency. Leveraging the react native it offers faster app performance, displaying workers based on preferred location and cost criteria.

BACKGROUND TOOLS

A] REACT NATIVE

React Native is an open-source framework developed by Facebook that allows developers to build mobile applications using JavaScript and React.

It enables the creation of cross-platform apps for iOS and Android platforms simultaneously, leveraging a single codebase.

B] EXPO

Expo is a free and open-source platform for building native apps with React Native. It provides a set of tools and services that simplify the development process and enable developers to create high-quality mobile applications for iOS, Android, and web platforms.

Expo simplifies the development and deployment of React Native apps, making it an excellent choice for developers looking to build cross-platform mobile applications efficiently. It abstracts many complexities of native app development, providing a user-friendly and productive environment for creating modern mobile experiences.

C] HYGRAPH

Hygraph's GraphQL API allows our frontend developers to concentrate on building features without involving backend developers for API adjustments. They can swiftly build and test queries inside Hygraph UI allowing us to flexibly shape the content models and test the outcome almost immediately in the frontend.

PROPOSED SYSTEM

1. User Registration and Profile Management:

- Users can create accounts and manage their profiles with details such as name, contact, information, and address.
- Profile management includes the ability to update preferences and view past task history.

2. Service Selection and Search:

- Users can search for specific services offered by handymen, such as plumbing, electrical work, carpentry, etc.
- The system will provide a list of available professionals based on the user's location and service requirements.

3. Booking and Scheduling:

- Users can select a professional from the list and book appointments based on availability.
- The system will handle scheduling, ensuring that the booked time slots do not overlap for professionals.

4. Notifications and Communication:

- Both users and professionals will receive notifications via email or SMS regarding booking confirmations, changes, and cancellations.
- In-app messaging will allow direct communication between users and professionals for task-related discussions.

7. Rating and Feedback:

- After completing a task, users can rate the professional's service and provide feedback, which helps maintain service quality.
- Professionals with higher ratings and positive feedback will have better visibility and credibility on the platform.

8. Admin Dashboard:

- An admin dashboard will be available to manage user accounts, verify professional credentials, handle disputes, and monitor overall system performance.
- Admins can also generate reports and analytics to gain insights into user behavior, popular services, and revenue trends.

CONCLUSION AND FUTURE WORKS

The implementation of the handymen site revolutionizes the way users can access services. By facilitating one-click booking, users can effortlessly summon workers to their doorstep for a range of tasks, including cleaning, COVID-sanitization, furniture maintenance, electrical works, appliance repair, house painting, and plumbing. The platform ensures access to well-qualified professionals who match specific budget constraints and are available at desired locations, thereby offering convenience anytime, anywhere.

This innovative system is particularly significant for the informal sector, providing a crucial platform for job seekers, particularly handymen, to efficiently connect with clients. By streamlining the process, the platform enhances accessibility for both service providers and customers, fostering a more efficient and seamless interaction.

Looking ahead, the inclusion of a tracking system holds promise for further enhancing user experience. This feature will add an extra layer of convenience, allowing users to monitor the progress of their service requests and ensuring transparency throughout the process. With ongoing developments and improvements, the handymen site stands poised to continue reshaping the landscape of service provision, offering unprecedented ease and efficiency in connecting users with skilled professionals.

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