Survey On An Android Application for Home Services

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Abstract: *In the current scenario, people are steeped in a heavy work culture, as everyone is busy with busy schedules and busy tasks that distract them from family life. If any problem arises unexpectedly, it distracts them and makes them choose the work that they have to complete primarily. Managing both professional and family life is important. In such circumstances, every one of us would have imagined a kind of house with no leakage in the pipe if there was no disturbance in fixing the furniture and the kind of house that would ever be in maintenance. Does not face issues and every one of us has thought that if there is no problem in getting service at the door of your house and if there is no wrong in taking labor to serve the house In it, you will have a better life. In such a situation, e-commerce plays an important role in today's life because it has so many benefits in our life as it facilitates people's daily lives.*

So, giving an idea to that aspect of life is to design and develop a system that provides many services to your door in just one click. A system that provides services such as plumbers, movers and packers, repair persons, cleaners, electricians, painters, taxi service laundries and many more. To make it convenient for all users, our system also provides a mobile environment that provides easy access to our services. A very simple process is done to book a service (s), and our system is specialized with providing a confirmation email about the selected service. People can choose the specification of the required service by uploading an image of the desired specification. The system is versatile as the service can be booked from anywhere to anywhere as per your wish..

General Terms*: Services, Authentication, Customers, Registration*

Keywords: *Credentials, Payment Gateway, Web Portal.*

I. INTRODUCTION

The convergence of information technology and communication technology has created an environment where we can access information, get online services from anywhere anytime in the event of mobility. When one needs assistance with small but major household tasks, trouble arises when service skilled persons are unavailable or it is impossible to find reliable providers who provide consistently impeccable service by example. Our online system for home services provides the most expedient and allow you to complete your household work. We want to help provide optimal solutions to all your household troubles with more efficiency, ease and prominence, a delicate touch. A single click system describes highly efficient booking of home professionals and completes your service on time. Customer's overall willingness to pay is considerable and positively correlated with the expectation that fee-based services will improve, and with the belief that "pay for what you get" is the right thing to do. Keeping in mind that our proposed system is basically a marketplace for domestic services and is a platform where rates were standardized and there is no need to increase prices. Many aspects such as painting, pest control, house cleaning, plumbing, electrical work and carpentry services are included in a system to provide a happy and healthy home environment to satisfy consumers. This application will be a contribution towards the north for the neighboring employees who are unaware of the power of smart phones. This app will be designed and developed on Android platform. SQLite is used as a server, real-time database, push notification provider, and internet hosting for Android applications.

The major goal of this work is to promote an internet site and a gadget app which includes the following features:

1. Provide options for the most working workers ie plumber, electrician, mechanic and decorator.
2. Notify the worker via push notification with details of the work.
3. Send approval push notification to customer.
4. Customers and workers can send name or SMS to every other.

that connects customer to service professional.

II. EXISTING SYSTEM

A. URBAN CLAP

Urban Clap is an app – based service marketplace

Their strategy is to connect more and more number of customers to use the platform of Urban

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Clap to make their life more easy and comfortable. With the rise in Nuclear families, Dual Career couples, the focus of customer is to spend quality time with their families whenever possible. Services at the door step at one click of the mouse is welcoming change accepted by customers today, giving rise to business model like Urban Clap, is here to stay for long time. However the success of these businesses is well dependent on how successfully Urban Clap can meet the expectations of its customers, reduce their pain and provide an overwhelming satisfaction to its customer base.

B. FORFIX

Forifix is an Integrated Pest Management venture, launched on September 5, Defense Day as a shield against the domestic terrorists (Pests and their pollutants) in and around the facilities. It addresses a significant gap between a serious pain point of every household and the horrid solutions available that one could ever risk. Forifix offers Pest Prevention with Safer, Odorless, and environment friendly products approved by WHO/EPA and FDA. In addition to this, they provide Heat Proofing and Water Tank cleaning and Home Improvement with allied repair and maintenance services.

C. HANDYMAN

Handyman which was incorporated on 21st November 2014, The Handyman was the first Professional Handyman Service provider in Pakistan. The 'Handyman' is a term used to describe technicians such as Electricians, Plumbers, AC Mechanics, Carpenters, and Wall Painters etc. Starting initially in Islamabad, they have a team of qualified handymen available to help households and businesses with cleaning, electrical, plumbing, painting, and other jobs that require urgent attention. They also provide cleaning & janitorial services, repair works as well as tasks related to construction management (building or constructing a house, office, or a commercial plaza, or remodeling your property).

III. TOOLS AND TECHNOLOGIES USED

AndroidSDK

Android Software Development Kit is a programming package to develop mobile applications that can run on android platform. This entire package comes bundled with sample projects along with the source code, development tools, emulators and required libraries to create a full-fledged android based mobile application. These applications are writtenusingJavaasaprogramminglanguageandrunso

n Dalvik, a custom made virtual machine for embedded use and which runs on top of Linux Kernel.

Android Studio

Android Studio is an official IDE (integrated development environment) for Google's Android operating system. It is specifically designed for Android development and is based entirely on IntelliJ IDEA software. Mostly Java is used, although apps can also be built using C ++. It targets all dimensions of display gadgets such as Android smart phones, tablets, smart TVs, and wearable devices. For coding, there is a specially featured editor and a layout designer. For output, an emulator is given that is additionally identified as an Android virtual device (AVD) that looks like an actual device.

Eclipse

Eclipse is an integrated development environment (IDE) that provides a platform for developers to develop notable applications. Eclipse includes projects on various aspects of software development. Eclipse exists with several announcements of the Sun Micro System, and it takes responsibility for developing the Java language. Eclipse projects can run on a wide range of machines such as Intel, Mac. Eclipse provides enterprise development for applications development, device development, and building a rich platform for customers.

Java

The Java language is used in a variety of application-based projects and was released as a core component of Java's Sun Microsystems platform in 1995. Java virtual machines typically work to organize applications for byte code that can help to run on a Java virtual machine with less attention to PC structural engineering. Java is secured, a high-level robust programming language, and has its own run time environment. The hardware and software in which the program runs are called platforms. There are many areas where Java is currently in use such as mobile devices, games, embedded systems, system robotics and entrepreneurial applications such as banking.

SQLite

SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and thus is free to use for any purpose, commercial or private. SQLite is the most widely deployed database in the world in which we can count multiple applications, including many high-profiles.

IV. SYSTEM MODULES

PaymentModule

Further processing takes place before the next module where the customer is required to pay for services. This is done through an external payment gateway that guarantees a safe and secure transaction. Once payment has been made, a confirmation acknowledgment is sent about all the details of the user-selected services and an onsite confirmation is also displayed on the website. When the service is booked and confirmed, the service men of our organization will reach out to you to deliver the service.

The idea proposed in this paper is one of new innovations where it reduces the hassle for customers to search for labels and avoids bargaining to obtain profitable services. Once the service is complete our customers are requested to rate the overall service performed by our professionals and are asked for any valuable feedback or improvements to provide a better service. If customers are dissatisfied with the service provided, a return policy is approved with some valid reasons, or a re-service can be made to make you feel comfortable with our service.

ServicesModule

When customers want to schedule a service, they can do it by logging into their account. The portal is distinctive with an interactive user interface that provides an attractive way of booking the service, where customers are requested to provide details about the required services. Customers are asked to upload pictures of their details if they are confused by any service. When done, the request is submitted and it is directed to the payment page for the payment to be made.

User Module

Customers who wish to avail our services are invited to register for free account in our portal with a few simple steps, requesting the customer to confirm account creation by providing valid credit. Once they are done with the registration, a confirmation mail is provided to the email-id about a new account with a verification link. Now a customer is free to use our services when they are done with account verification.

V. PROPOSED SYSTEM

The proposed system consists of actors consisting of a worker and a client. The administrator has initial rights to access and modify the website, where it needs to login to do so. Then the administrator comes to the customer who wants to take advantage of our services, it has to be before the registration and login process. A client can upload a file describing the services if necessary. Once a request

is made, it can forward it to the payment process and rate the customer service to confirm the service once the service is over. And in the worst case if customers are not satisfied with the service they can proceed with the return policy process. Finally a service provider that provides a service where they should also go through the registration and login process and proceed with the uploaded files and inform them to provide the service once the service is confirmed. Is done and when done after service. If customers are dissatisfied with this based on customer reviews.
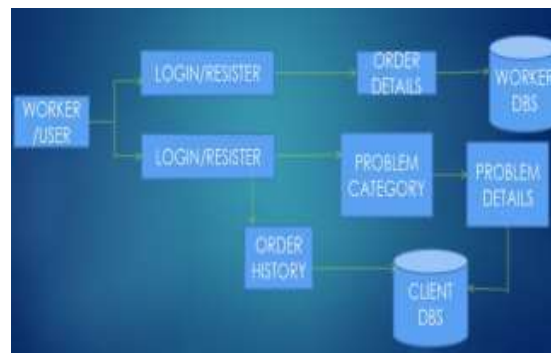

Fig 1: Architecture Diagram

VI. CONCLUSION

To reduce the burden of finding an in-house solution for services, the proposed system provides multiple services by providing a service specialist at your doorstep in one click. An orderly mobile environment for system clients provides ease of access to our services in a more comfortable way. With well qualified and background professionals we can do all your house cleaning, plumbing, furniture maintenance, electrical work, appliance repair, home painting, vehicle service and many other services in one click anywhere Also easily available from.

VII. FUTURE SCOPE

The online home services application provides some of the home services that are most frequently used. This system accommodates the changing needs of the end user. The overall system can be designed so that its capacity can be enhanced in response to further requirements for which the application provides a suitable service abroad. Also this application can be prolonged by adding only essential services and additional payment systems. For example, the current system provides the following services such as house painting, house cleaning, packers and movers, repair of plumber and service can be carried forward. The system can be kept for a long time by adding mobile and computer repair, laundry services, catering services and many more services. There are methods of payment discussed in our system, for example currently the system only has online payment by MasterCard users, this can be further

enhanced by adding payment services for Visa users.

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