ONLINE HOUSEHOLD SERVICE ASSISTANT

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ABSTRACT

The smart assistant system was developed to make the process of finding the household service providers easily through fingertips using mobile application. As in current generation the technologies are growing rapidly in every aspect and everyone is engaged in their work life and there is no time for them in finding the service providers and bargaining them to fix the damaged parts in household. This system contains the service providers as they will register in this with their details and people who want this services will login to this application and find out the correct category they need the service and send them the request and the service providers will give them the service.

KEYWORDS: flutter, dart, firebase

INTRODUCTION

In present scenario, people are buried up in a heavy work culture, as everyone is engaged with busy schedules, and hectic tasks which make them deviate from family life. Any unanticipated problems they run into divert their attention and force them to prioritise other tasks over the work they need to get done. It's crucial to balance personal and professional obligations. In such circumstances, every one of us would have fantasized about a kind of house which doesn't have any leaks in pipes, if it doesn't have any mess in fixing a furniture and a kind of house which never face any maintenance issues and every one of us have thought that a life would be much better if no point of issue arises in getting a service at your door step and if there is no mess in bargaining a labor for home service.

LITERATURE SURVEY

Indravasan et al [1] proposed this system that offers a variety of services delivered to your house with a single click. A system with a variety of services available, such as taxi service, laundry, painters, plumbers, repair people, movers and packers, and electricians. A relatively straightforward procedure is used to book a service or services, and this system is good at sending a confirmation email for the chosen service. People can select the specificity of the service they need by uploading the necessary specification's image.System is versatile as service can be booked from everywhere to anywhere you desire.

Prachi et al[2] proposed a mechanism that is designed and developed in a way It can deliver a range of

services, such as movers & packers, plumbers, and repair people, to your door with just one click. An all-

purpose platform that allows for two-way communication between service provider and service receiver can eliminate the exhausting efforts of searching the suitable service provider and also ensures the intended job for the service provider.

Aravindhan et al[3] developed a system to reach the demand of home service system that is quite helpful for anyone looking to promote home services like plumbing, electrical upkeep, electrical repair, repair of gas ranges, and RO servicing. There are only two users in this system; the first is a provider of home services, and the second could be a consumer. Home service providers are essential to the initiative and can sign up on this page by describing their function. The small about them by providing their contact number while the user can see an inventory of home services and get in touch with them as per their requirements.

Kamakshi Gupta et al[4] proposed a system that cuses on domestic issues such as carpentry, plumbing, pest control, and electricity, etc, which are common in cities where people are occupied with their everyday duties. So, in this circumstance they developed this android app which is very useful and it can offer all essential domestic services at the touch of a button. In this application, any user after creating his profile can look up for any type of household services.

The user gets a list view of all the service providers of that particular service. The user can make online payments through this app only.

Sheetal Bandekar et al[5] proposed the Mobile Applications. "Domestic Android Application for

Home Services", They created the Android home application, a corporate-based Android-compatible mobile application, which connects clients and service providers via the GPS (Global Positioning System). Customers request home services, and the closest provider of services is assigned to meet their needs depending on their location by retrieving their latitude and longitude.

Hegde Sharaj et al[6] developed a project in which they hire experts to handle all of your household tasks. It comes with all the necessary functionality pre-installed, just like all other on-Demands. Hire a plumber in your area to quickly address any leaks you may have at home. Having problems with your air conditioner, Contact a professional who will fix your AC in just a matter of few minutes. Similarly, These apps assist in resolving issues with carpentry, housekeeping, appliances and other problems around the house.

Agrawal et al[7]developed a system to the growth of purchasing products online and booking home-services over the internet has acquired extensive popularity in the recent times. People find it more convenient to book services online from the comfort of their homes than going out to find someone to do the same. In consideration of this, the authors suggested a mobile application 'AtDoorStep', a site for all the diligent individuals to interact directly with clients and meet their home-service needs at their doorsteps. It is an initiative for all the retail shops and laborers to be able to provide services right to clients' doors.

Ashay Girgaonkar et al [8]A system that offers several services such as painters, circuit testers, cleaners, handymen, packers and movers, fixers, cleaners, plus more. Making it convenient for all of our customers, our framework also includes a mobile setting that makes it simple to access our services. It is easy to schedule a service or services, also, our system is precise in providing an email confirmation of the selected administration.

G.H.A.J.Sarathkumara et al [9] The recommended system has been created as a web-based application that is mobile friendly and allows users to quickly locate the best service provider for their household

services.This "Mister Fix" - Online Service Provider for Home Services programme makes it easier for anyone looking for household services to find them online thanks to enticing user interfaces that are location-specific. In place of the manual approach, the service seekers can now book household services that include an integrated, simple,and secure payment method.

T. Kataiah et al [10]The need for electricians, plumbers, mechanics, painters, and everyday Labourer is extremely great, but there is no proper communication with them, therefore if there is a need, we must look for them using various offline methods .When we really needed workers, we occasionally had trouble finding them. If a need arises, the user can submit a request, choose a worker from the list that is available, and make his decision based on the workers experience and the price he is willing to pay.

Hafiz Adil Sikandar et al [11]The primary goal of this study is to develop an Android app for portable electronics that will allow users to connect with handymen. A technician is referred to as a "handyman" whether they area carpenter, an AC mechanic, a plumber, an electrician, or a painter. The application was created with Android Studio, the code was written in Java and the Android SDK, and SQLite was used to store the odd jobbers data.
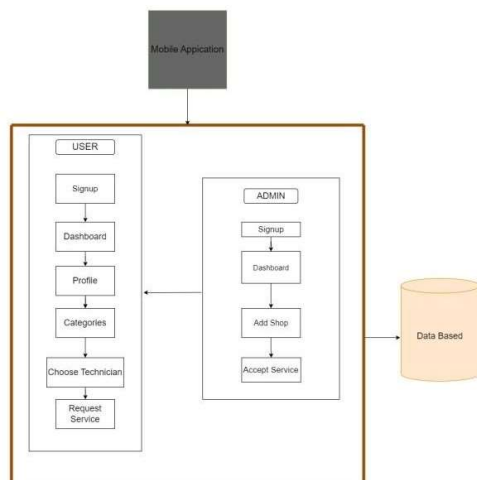
OBJECTIVE

This system's primary goal is to provide home services with only one click. This essay discusses the central issue of locating solutions for domestic services as well as the processes involved in placing orders for and receiving deliveries of manpower services.

METHODOLOGY

ARCHITECTURE DIAGRAM
An architecture diagram is a graphic representation of every component that makes up a system, in whole or in part. Above all, it aids in the understanding of a system or app's layout by engineers, designers, stakeholders, and anybody else associated with the project. It is a system diagram used to abstract the relationships, restrictions, and boundaries between components as well as the overall structure of the software system. It is a crucial tool since it gives a comprehensive overview of the software system's physical deployment and development roadmap.

HARDWARE REQUIREMENTS:

Processor – i3/i5
Hard Disk – 4 GB
Memory – 1/2/4/8/16GB RAM

SOFTWARE REQUIREMENTS:

FLUTTER:

Flutter is an open source framework for developing top-notch, fast mobile applications for both Android and IOS devices. It offers a straightforward, strong, effective, and simple SDK that makes it simple to create mobile applications in Dart, Google's own programming language.

FIREBASE:

A platform for building and growing popular apps and games is called Firebase. supported by Google and relied upon by millions of companies worldwide.

DART:

A programming language called Dart was created specifically for client development, including mobile apps and websites. It was created by Google and may be used to create desktop and server apps. It is a class-based, garbage- collected, object-oriented language with C-style syntax.

RELATED WORK

S.NO	TITLE	AUTHOR	OVERVIEW	OBJECTIVES	LIMITATIONS
1	An Online System for Household Services	Adarsh G, N. M. Indravasan, Shruthi, Shanthi K, Dadapeer	A system that provides a variety of services, such as laundry, taxi service, electricians, painters,plumbers, movers, and packers. The online system for household services' prime purpose is to deliver services to homes with only one click at the doorstep.	Delivering home services with just one click at the door step is the main goal of the online system for household services.	Internet Connection is mandatory
2	Android App for Household Services	Kamakshi Gupta, Aniket Tewari,Rohit Basra	This application was created utilising many programming languages like Java, C, etc. and using different approaches.The user gets a list view of all the service-providers of that particular service.	This essay examines the primary topic of online home services, several services offered, and how services are ordered and delivered.	Correct data must be entered by the user to prevent abnormal behaviour.
3	Web Application Based On Demand Home Service System	K.Aravindhan, K.Periyakaruppan,T.S.Anusa, S.Kousika, A. Lakshmi Priya	The service provider's therein particular locations are listed to user with contact number and therefore the user can contact them. By this users can easily avail the needed home services withnone difficulty and delay.	Any authorised user wishing to look for home services using a clever web-based system or a mobile application may use the platform for those services online	_
4	An Online System for Home Services	Ms. Prachi S. Tambe, Nikam Poonam, Gunjal Trupti, Jadhav Priti, Parakhe Sonali	To create a system that can deliver a range of services, such as plumbers, movers, and repairmen, to your door with just a single click.	To reduce time, Easily available best Vendors on one click,Easy to use,Reduce Barden of finding service provider	Wrong inputs will affect the project outputs.

5	Domestic Android Application for Home Services	Sheetal Bandekar, Avril D'Silva	Customers request home services, and The closest service representative is assigned to meet their needs depending on their location by retrieving their latitude and longitude.	By giving the necessary credentials at the time of registration, to provide an authenticated and authorised login module for the users, such as service seekers, service providers, and the admin..	This application requires active internet connection.
6	At DoorStep: An Innovative Online Application for Household Services	Tanya Goel, Dr. Krishna kant agrawal, Vibhu Saxena Tarun Gariya,	The authors proposed a mobile Application 'At doorstep' a place for all the diligent individuals to interact directly with the clients and meet their home-service needs right at their doorsteps.	Our Aim is to build an application for all the small-scale business retailers and laborers to easily connect along with the clients and meet their needs for home services at their doorsteps through this platform.	Additional modes of payment can be included for the users to carry out transactions.
7	An Android Application for Home Services	Krishnamoorty Rao, Hegde sharaj bhaskar shyamala, Prateek Prakash Vetekar, Padmanabha Bhandarkar, Geetha Laxmi	As the name implies, it provides a platform where you can easily engage specialists to handle all of your household duties. With qualified and experienced staff, the reputable home services application can efficiently repair and fix anything around your house.	To create a mobile application that is equivalent to the web-based online system for choosing home services..	Currently, the system only accepts online payments from MasterCard users; however, it might be expanded by including payment options for Visa users as well.
8	"Mister Fix" – Online service provider for household services	G.H.A.J. Sarathkumara	This "Mister Fix" - Online Service Provider for Household Services application makes it easier for customers to look for household services online depending on their location.	The main objectives of this project is to deliver the household services at the doorstep by completing few steps, provide high quality,trustworthy service within a limited period of time	It will not provide the satellite view of service providers and customers.
9	Mobile App for the Promotion of Home Services	David Israel Nicolas Quispe, Josue Martin Nicolas Quispe, José Luis Herrera Salazar	This research is to develop and implement a mobile application that allows home services	To provide a secured online payment gateway for service seekers.	–
10	SMART HOME SERVICES USING ANDROID	Kataiah, Chandana, Shaik Harshadshame emulla	The programme allows registered users to request services, and the closest service provider is chosen to fulfil the users' request based on their location.	We seek to assist in offering the best answers to all of your household problems with greater efficiency, comfort, and most importantly, a gentle touch.	It does not enable the users of the application to drag and drop to another location on the maps.
11	Technical Service At Home	Areeb sayed, Allan lopes,Anand shah, Sitala Vishwakarma	Customers request home services, and the closest service representative is assigned to meet their needs depending on their location by retrieving their latitude and longitude.	To create a user-interactive interface for seeking services on the go.	The online database Storage is not large in size so that it cannot be used in a better way.
12	Survey On Online Home Service System	Madhavi Mali, Harshal Mahajan, Harsh Deogadkar, Vedant Mahajan, Parth Biradar	This project aims in developing a online website to maintain all the home services	Our website saves time of user because service is provided fast and each service in affordable charges to user.	-
13	Permeable homes:Domestic service,household space and the vulnerability of class boundaries in urban india	Sara Dickey	Employers attempt to limit the threat by strengthening the metaphorical boundaries of the home, regulating domestic workers' movements across space, and varying the proximity of employees to and distance from employers. The existence of servants is a crucial marker of class.	In this paper, different ways that employers feel threatened by servants' movement through their domestic spaces are examined	Limited geographical area

	Recommendation Algorithm	Rekha M, Shanmugam N	main sources with higher ratings are advised.and recommended for that specific task along with their personal details.	services with a single click.	
15	OneTouch—The Worker's App	Ankit Jaiswal, Dhanashree Hadsul, Kasturi Kadam, Aniket Warade	The effectiveness of the actual service, or how well it meets expectations through feedback, determines the quality of the service and customer satisfaction.	Expectations and their management are of great importance to give a proper service quality and customer's satisfaction.	After successful payment, a receipt is not provided
16	An Online System for Household Services	Mr. Ashay Girgaonkar,Mr. Shubham Gosavi, Ms Rachna Shinde,Ms. Shivani Gugale, Mr.Sandeep Gore	A system that offers a variety of services such as painters, circuit testers, cleaners, handymen, packers and movers, fixers, cleaners, and more..	The main goal of the online Framework for family unit administrations is to deliver the home services at the door step with just one click.	The framework Can have delayed by including the administrations
17	User acceptance of smart home services	Heetae ,Yang ,Hwansoo Lee,Hangjung Zo	A smart home can be defined as a residence equipped with a communication network, Remotely accessible, trackable, and controllable household gadgets, appliances, and sensors	Smart home service users can easily access the system, control home appliances, and ensure the safety of home and family	-
19	A study on the adoption of smart home service: using Value-based Adoption Model	Yonghee Kim, Yonghee Kim,Jeongil Choi	This study intends to evaluate the adoption of smart home services in great detail.	This study holds considerable significance as it suggests a fresh strategy for implementing smart home services using VAM and TAM.	Aggressive competition is predicted for this market
20	Consumer-Service Provider Connect	Nabhya Jha, Shrestha Sharma, Shweta Tripathi,Nimal Nainan,	We have created an online portal that helps the users using it to either provide services or seek services.	The main aim of this project is to create a system which connects consumers and service providers	Maps are not added for live tracking of service providers.

CONCLUSION:

The suggested system offers various services by delivering service specialists to your doorstep in a single click, easing the load of seeking internal solutions for the services.A structured mobile environment for system clients makes it easier and more pleasant for them to access our services. With just a click, we can complete all of your home cleaning, plumbing, furniture upkeep, electrical work, appliance repair, house painting, vehicle repairs, and other services anytime from anywhere as easy as possible with our well-qualified and background-demonstrated personnel.
to enable better use of it.

REFERENCES:
N.M.Indravasan,G.Adarsh,C.Shruthi,K.Shanthi,Dadapeer "An online system for household services " International Journal of Engineering Research &Technology (IJERT) vol-6 issue-13,2018

Prachi S. Tambe1, Nikam Poonam, Gunjal Trupti, Jadhav Priti, Parakhe Sonali"An Online System for Home Services"International Journal of Scientific Development and Research (IJSDR) September 2020 IJSDR | Volume 5, Issue 9.

K.Aravindhan,K.Periyakaruppan,T.S.Anusa,S.Kousika, A. Lakshmi Priya"Web application based on demand home service system "International Conference on Advanced Computing & Communication Systems (ICACCS)2020

Kamakshi Gupta, Aniket Tewari, Rohit Basra "Android app for household services" IJIRT Volume 8 Issue 1 (June 2021)

Sheetal Bandekar,Avril D'Silva "Domestic Android application for home services" International Journal of Computer Applications Volume 148 – No.6, August 2016

Hegde sharaj bhaskar hyamala, Krishnamoorthy Rao, Padmanabha Bhandarkar, Prateek Prakash Vetekar, Geetha Laxmi"An Android Application for Home Services "International Research Journal Of Engineering And Technology (Irjet)Volume: 07 Issue: 05 | May2020.

Krishna Kant Agrawal,Tanya Goel,Tarun Gariya,Vibhu Saxena "AtDoorStep: An Innovative Online Application for Household Services"Journal

Ashay Girgaonkar, Shubham Gosavi,Rachna Shinde, Shivani Gugale, Sandeep "An Online System for Household Services"International Journal for Scientific Research

G.H.A.J.Sarathkumara ""Mister Fix" – Online Service Provider for Household Services",2020

Mr. T. Kataiah, P.G. Chandana, Shaik Harshadshameemulla, G. Vaishnav,Batta Naresh, Gali Bhavya Deepika "Smart Home Services Using Android" Volume:04/Issue:03/March-2022

Hafiz Adil Sikandar, Shahbaz Mubashar, Shahan Yamin Siddiqui, Arslan Abbas,Tajammal Hussain Awan "Comparative Analysis And Handyman Services Application Development" PJAEE, (2022)