

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Online Home Service Provider Website

Lect. Mr. V. V. Shetkar¹, Mr. S.D.Bagul², Mr.R.A. Pawar³, Mr.A.Harel⁴, Mr.A.Sayyad⁵

¹Lecturer, Department of Information Technology, AISSMS Polytechnic, Pune, Maharashtra, India. ^{2,3,4,5}Student, Department of Information Technology, AISSMS Polytechnic, Pune, Maharashtra, India.

ABSTRACT:

Increased need for on-demand services has accelerated the evolution of online home service platforms that look to offer convenience and efficiency to users. ServiceMaster, an innovative home services company leveraging AI technology, has a vision of revolutionizing how users access and book services like cleaning, repair, maintenance, and more. Through the examination of personal preferences, customer feedback, and geographical availability, ServiceMaster provides customized service suggestions based on an individual's requirements, time, and budget. With the use of machine learning algorithms coupled with a wide network of service professionals, the platform not only guarantees high-quality service delivery but also maximizes the matching process, cutting down on waiting times and enhancing overall customer satisfaction. Additionally, the platform monitors customer feedback and streamlines service recommendations in real-time to continuously improve the service experience. This article talks about ServiceMaster's underlying technologies, the challenge of scaling personalized home services, and how it can increase user experience and make household management more accessible and efficient.

KEYWORDS: Home service platform, Personalized service recommendations, On-demand services, User experience, Convenience, Quality service delivery.

Introduction

In the fast-paced modern world, home services that are high-quality, convenient, and reliable are more of a necessity than ever before. The conventional way of hiring service specialists is by long and cumbersome processes coupled with minimal personalization, hence the lackluster experiences for users. Home service platforms online have risen to meet the needs to solve such a problem by making it easy to schedule services such as maintenance, repair, and cleaning through a single click. These platforms are backed by advanced technology, such as artificial intelligence, to improve customer experience by presenting customized service solutions based on individuals' needs, interests, and location. Platforms like these are filling the divide between customers and service providers with faster, quicker, and custom solutions for mundane household requirements. This introduction delves into the use of AI to revolutionize the online home service industry, the tech behind the platforms, and how they are changing the manner in which humans handle their home services for enhanced convenience and quality of life.

Problem Statement

The idea for "ServiceMaster - AI-Powered Home Service Provider" stems from the increasing complexity and hassle of accessing credible, high-quality, timely home services in the rapidly changing world today. The conventional ways of reserving services tend to result in late delivery, bad matching of client requirements with service professionals, and insufficient personalization, which dissatisfies clients and frustrates them with the system. tries to address these problems through the application of artificial intelligence to connect users to the most appropriate professionals, providing efficiency, quality, and satisfaction along with continuously enhancing .

Working

Technologies Used:

- JavaScript for dynamic, interactive web functionality.
- HTML for structuring the website's content.
- CSS for styling the website's frontend and ensuring responsive design.
- API Integrations to access external service data and enhance the user experience with real-time updates.
- MySQL for storing service provider details, user profiles, and service requests.

Frontend:

- HTML/CSS: Provides the basic structure and visual styling of the website.
- JavaScript: Manages user interactions, requests, and asynchronous API calls.

• Responsive UI: Ensures the website is mobile-friendly and adapts to various screen sizes.

Backend:

- AI Service Matching Engine: Processes user preferences (service type, location, etc.) and matches them with the most suitable home service professionals.
- API Integrations: Integrates with external services for real-time updates, service availability, and other relevant data.
- Database (MySQL): Stores user data, service provider information, and transaction history.

Working of the Project:

- User Login: Users log in securely using Google or email authentication.
- Service Request Input: Users enter their preferences (type of service, location, budget, etc.) to search for available home services.
- API Integration: External APIs are used to fetch real-time availability, pricing, and ratings of service providers.
- Displaying Service Options: Service providers' details, including availability, pricing, and customer reviews, are displayed for the user to select from.
- Booking and Confirmation: Once a service is selected, users can schedule and book the service. The system sends confirmation and reminders for the upcoming service.

System Architechture:



Outputs And Result:



Welcome Back!	
Cont have an account? - Signup Forget password	

Sign Up reate your account
Last Name
Email
V Phone
Address
Username
Password
Confirm Password
Select Role
Sign Up
Cancel
ready have an account? - Login





HS HOME SERVICES	Home Category 🔻					Regi	ster As a Servic	ce Provider 📕 My C	rder	
	Current Orders Order Histo	ry								
	Order #36				Ordered on: 25 March, 2025 🛃 Download Invoice			🛓 Download Invoice		
	Service		Provider	Contact	Status	Qty	Price	Total		
	Professional AC Service & Re	pair	Smit Dudhat	8574857474	Cancelled	1	₹1,500.00	₹1,500.00		
	Delivery Address: Pune			Expected S 26 March, 2	ervice Date: 025 11:00 AM			Total Amount: ₹1,500.00		
	Order #29				Orde	red on: 23	March, 2025	A Download Invoice		
	Service	Provider	Contact	Status	(Qty	Price	Total		
	Kitching cleaning	Nayan	9685741425	Comple	ed 1		₹356.00	₹356.00		
	Delivery Address:			Expected S	ervice Date:			Total Amount:		

HS HOME SERVICES	Home Category -		Register As a Service Provider My Order	÷ Ä
	Shreyash Bagul	My Profile		
	Devil_Op21	First Name	Last Name	
	My Profile	Shreyash	Bagul	
	My Orders	Email jaybhoye3213@gmail.com		
	Settings	Phone		
	Logout	8329155966		
		Address		
		Pune		
		Update Profile		





Outcome:

The system backend incorporates third-party APIs to obtain current availability, price, and reviews of service providers to make sure that users can view updated and precise information. The service alternatives are shown to customers with full details about the service provider, such as customer reviews, availability, and approximate prices. The system focuses on minimizing time and effort taken to receive quality home services to enable customers to easily deal with household requirements.By integrating AI with live data from external sources, the platform provides a responsive and adaptive home service booking experience. This result increases user convenience by making it easier to find, book, and manage home services with high-quality outcomes. It enables users to make quick and effective decisions, making household management more efficient and overall service satisfaction better.

Conclusion

In totality, the Online Home Service Provider platform marks a big leap in revolutionizing individuals' experiences in accessing and managing home services through innovative artificial intelligence technologies. The system responds to the increasing need for tailored, on-demand services by perfectly linking users with the most appropriate service experts in terms of personal preferences and needs. With the integration of user-centric design, real-time API information, and AI-facilitated service matching, the platform achieves an adaptive, efficient, and high-quality user experience. Importantly, however, it also shows the change-making capability of AI in simplifying everyday routines and automating home service management, enabling users to make speedy and easy choices. This project demonstrates the potential of using artificial intelligence beyond conventional domains and presenting real-life solutions to problems and enhancing convenience and quality of life for people.

Objectives and Future Scope

Overall, the general objective of this project is to investigate how artificial intelligence can be utilized to transform the home services sector by building an AI-based online platform. The project aims to create an intelligent system able to match users with the best available home service providers suited to their individual needs, preferences, and limitations, providing a customized and effective experience. Major goals involve integration of machine learning algorithms to take user inputs and provide personalized recommendations for services, and the employment of real-time API integrations to offer customers up-to-date information regarding availability, pricing, and reviews from service providers. The project strives to make finding and booking excellent services like cleaning, repairs, and maintenance straightforward, thereby increasing convenience for the users and enhancing high levels of customer satisfaction. Moreover, the project will tackle the challenges of incorporating AI, such as data privacy issues and making the platform scalable, and also discover areas where the system can be developed further and expanded in the future.

Scope:

- Develop an intuitive and responsive web interface that allows users to easily request, book, and manage home services.
- Implement secure login functionality (e.g., Google Authentication) to ensure user privacy and data security.
- Include a wide range of home services such as cleaning, repairs, maintenance, plumbing, electrical services, etc.
- Integrate APIs to provide real-time data on service provider availability, pricing, and estimated time to complete services.
- Enable users to view and submit reviews and ratings for service providers to help other users make informed decisions.
- Allow users to schedule services based on their preferred time and date, with automatic confirmations and reminders.

REFERENCES :

[1]. Sheetal Bandekar, Avril D'Silva, "Domestic Android Application for Home Services" International Journal of Computer Applications, ISSN No.0975 – 8887, Volume 148 – No.6, August 2016

[2]. N. M. Indravasan, Adarsh G, Shruthi C, Shanthi K, "An Online System for Household Services" International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, May 2018

[3]. Shahrzad Shahriari, Mohammadreza Shahriari, Saeid gheiji. " Ecommerce And It Impactson Global Trend And Market" International Journal of Research – Granthaalayah. Vol.3 (Iss.4): April 2015.