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Implementation of The Smart Utility Management System (SUMS): A Comprehensive Digital Platform for On-Demand Services

Nishad Kamble[1], Pranjal Patil[2], Kartik Rajput[3], Shashwat Pandey[4], Dr. K N Tripathi[5]
ISBM College of Engineering, Pune, Maharashtra, India
1nishadkamble21@gmail.com, pranjalkiran23032003@gmail.com,
kartikrajput70581@gmail.com, shashwatpandey1202@gmail.com

Abstract: *HomeGenie is an AI-based home utility management system that gives simple assessment services needed in an urban home for plumbing, cleaning, electrical repairs, and so on. Live or real-time service matching, smart scheduling, and a communication pathway between the user and the service provider have all been combined into one mobile application. We realize that in this paper, we have discussed the architecture, the core features of HomeGenie, and its comparative advantages to booking through traditional channels as well as other competing platforms such as UrbanClap, and the prospects for the integration of advanced AI models for further predictive analysis. An inquiry was undertaken to see whether HomeGenie affects user satisfaction, service delivery, and operational accuracy, through which we have been able to establish that the system can revolutionize the operation of Urban services. This methodology comprises system implementation, comparison, and usability testing. Thus, the results conclusively indicate that HomeGenie drastically reduces booking time, providing more quality services and user experience.*

Keywords: Smart Utility, Urban Services, AI-based Scheduling, HomeGenie, Service Optimization, Real-time Matching

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