

# Data Visualization on Online Housekeeping Service

## Using R programming

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**Abstract :** This paper proposes a way for housekeeping services now a day's people find it a bit difficult to contact housekeeping services so as to overcome this problem a way or an alternative way of online or application based software can be used. This way provides a easy way for managing contract and using the services according to ones need and requirement this increase the value of housekeeping services. The method have an impact upon the physical appearance and maintenance of a given facility. This method is less expensive to normal housekeeping services due to selection of service used and this method provides a clarity to customer to use housekeeping services according to time based you don't need to pay a housekeeping service for full month.

**IndexTerms – Housekeeping, low-cost, verified, software based.**

### I. INTRODUCTION

The management of duties like cleaning, window cleaning, etc done by other people hired is housekeeping service. According to analysis there is growth in demand for housekeeping services mostly people go for child care and home care for elderly or invalid person working single parents with child care expenses 9% of their income for their child. People living in a joint family have comparatively less demand for housekeeping services 45% of people choose housekeeping service according to charges applicable security is the second most concern of people using housekeeping services like working parent want 100% security for his/her child care or a working children want 100% security for his/her elderly parents. According to analysis bachelor's use cooking and cleaning service in housekeeping service. There is less time demand for housekeeping service in rural area due to availability of time. Indicating arrangement for variable information in which the complete information about the work done and remaining and time used. To overcome people this problem this research was conducted.

### II. Literature Review

The invention provides a method of the same mechanism, which includes a calculator system for the management of contract housekeeping services, in order to improve the quality and value of receiving domestic service. The method includes A series of invention functions to catalyze A-level representation of housekeeping service quality. Then, what level is used to reduce the decision on the management of domestic service. Affect the physical form of a given facility with maintenance management.

A tool to communicate the instructions of a hotel guest for the hotel's housekeeping services, and such method is provided. The communication equipment provides the guest with a way to show if the room or other instructions or controls need to be cleaned. In addition, guests can indicate what actions are desired in the cell, such as changing bed sheets or changing towels.

The method for providing wireless network communications is to retrieve data packets using a single wireless modem. Voice of humility involves implementing a server process that transmits data packets through the server, communicates the network, performs housing operations, and provides additional clients. , Use Send/Receive tasks to implement the process of sending and receiving data packages through each broadcast modem. Keep the data memory and select the wireless transmission path includes the server.

III. Dataset

A	B	C	D	E	F	G
Timestamp	Who are you?	Do you require a housekeeper?	How many hours on average per month do you have a cleaner for?	If a web-based housekeeping service	How much would you realistically expect to pay for a cleaner per hour?	Which other services would you be interested in if they were made available
2019/02/0	Bachelor's	Yes	6 - 10 hours	Definitely	100-200 Rs	Gardening,Ironing
2019/02/1	Bachelor's	No	Less than 5 hours	Likely	50-100 Rs	Ironing,Window cleaning,Curtain cleaning,Brooming
2019/02/1	Bachelor's	Sometimes	6 - 10 hours	Definitely	50-100 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cle
2019/02/1	Bachelor's	No	Less than 5 hours	Likely	50-100 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cle
2019/02/1	Family	No	Less than 5 hours	Likely	50-100 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cle
2019/02/1	Family	No	6 - 10 hours	Maybe	300+ Rs	
2019/02/1	Bachelor's	Sometimes	Less than 5 hours	Maybe	50-100 Rs	Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Bachelor's	No	11 - 15 hours	Maybe	200-300 Rs	Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Family	Yes	Less than 5 hours	Unlikely	100-200 Rs	Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cleaning,Washing Utl
2019/02/1	Bachelor's	No	Less than 5 hours	Definitely	100-200 Rs	Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Family	No	Less than 5 hours	Never	100-200 Rs	
2019/02/1	Bachelor's	No	Less than 5 hours	Maybe	50-100 Rs	Gardening
2019/02/1	Family	Sometimes	Less than 5 hours	Maybe	50-100 Rs	Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cleaning,Bed
2019/02/1	Bachelor's	Sometimes	Less than 5 hours	Maybe	50-100 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cle
2019/02/1	Family	Sometimes	11 - 15 hours	Likely	50-100 Rs	Ironing,Bed making
2019/02/1	Bachelor's	No	Less than 5 hours	Maybe	100-200 Rs	Gardening,Ironing,Window cleaning,Curtain cleaning
2019/02/1	Bachelor's	Sometimes	16 - 20 hours	Maybe	50-100 Rs	Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Bachelor's	Sometimes	6 - 10 hours	Definitely	50-100 Rs	Window cleaning
2019/02/1	Bachelor's	No	11 - 15 hours	Maybe	50-100 Rs	Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cleaning
2019/02/1	Bachelor's	No	16 - 20 hours	Likely	100-200 Rs	Ironing
2019/02/11 9:22:16 PM GMT+5:30	Bachelor's	No	Less than 5 hours	Maybe	100-200 Rs	Window cleaning,Curtain cleaning
2019/02/11 9:22:27 PM GMT+5:30	Family	Yes	21+ hours	Maybe	100-200 Rs	Gardening,Window cleaning,Curtain cleaning
2019/02/1	Family	No				
2019/02/1	Bachelor's	No		Definitely		
2019/02/1	Bachelor's	No	Less than 5 hours	Definitely	200-300 Rs	Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Bachelor's	Sometimes	Less than 5 hours	Definitely	100-200 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cle
2019/02/1	Bachelor's	No	Less than 5 hours	Definitely	50-100 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Family	Yes	21+ hours	Maybe	50-100 Rs	Gardening,Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cle
2019/02/1	Family	No	Less than 5 hours	Likely	50-100 Rs	Ironing,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cleaning
2019/02/1	Bachelor's	Yes	11 - 15 hours	Definitely	100-200 Rs	Ironing,Window cleaning,Curtain cleaning
2019/02/1	Bachelor's	No	Less than 5 hours	Maybe	100-200 Rs	Ironing,Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Bed making
2019/02/1	Bachelor's	Yes	Less than 5 hours	Maybe	50-100 Rs	Ironing
2019/02/1	Bachelor's	No	6 - 10 hours	Maybe	100-200 Rs	Gardening,Window cleaning,Curtain cleaning,Bed making
2019/02/1	Bachelor's	No	6 - 10 hours	Definitely	50-100 Rs	Gardening
2019/02/1	Bachelor's	No	16 - 20 hours	Likely	100-200 Rs	Ironing
2019/02/1	Bachelor's	Sometimes	21+ hours	Likely	50-100 Rs	Gardening,Ironing,Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Family	Yes	6 - 10 hours	Definitely	50-100 Rs	Ironing,Window cleaning
2019/02/1	Bachelor's	Yes	11 - 15 hours	Definitely	100-200 Rs	Ironing,Window cleaning,Curtain cleaning
2019/02/1	Family	No	21+ hours	Likely	50-100 Rs	Gardening
2019/02/1	Bachelor's	Yes	Less than 5 hours	Maybe	50-100 Rs	Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Curtain cleaning
2019/02/1	Family	Yes	21+ hours	Never	50-100 Rs	
2019/02/1	Family	No	Less than 5 hours	Definitely	50-100 Rs	Window cleaning,Carpet/Upholstery cleaning (deep clean, not just hoover),Bed making
2019/02/1	Bachelor's	Yes	21+ hours	Definitely	300+ Rs	Bed making
2019/02/1	Family	No	11 - 15 hours	Likely	100-200 Rs	Carpet/Upholstery cleaning (deep clean, not just hoover)
2019/02/1	Family	No	Less than 5 hours	Maybe	100-200 Rs	Car wash
2019/02/1	Family	No	6 - 10 hours	Maybe	100-200 Rs	Bed making

a) Data collection:

The preparation of the data-together took a survey forward on the spot and with the use of community-level monitoring. This Survey was conducted for 2 months, and this survey of thousands of public replies was collected.

b) Description:

The survey included 11 simple questions about Caretaker service and Questioning, giving the people that there is a need for the Caretaker service were ready for service for a period of time. Records prepared by the survey include attributes such as family, work, cleaning service and their prices

IV. Observations

Gathered Public responses from the survey with people from different age groups.

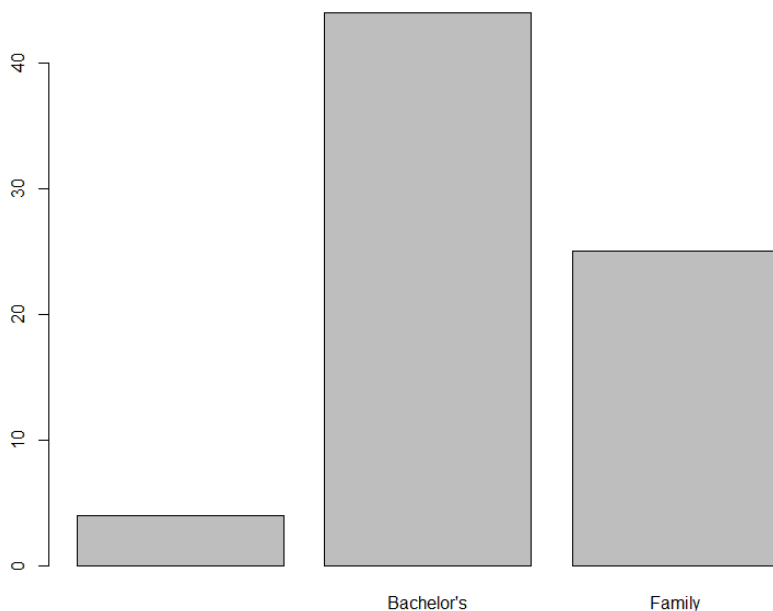


Fig:1

This plot shows the density of a group of people who responded to this research. The First chart does not Display an entry.

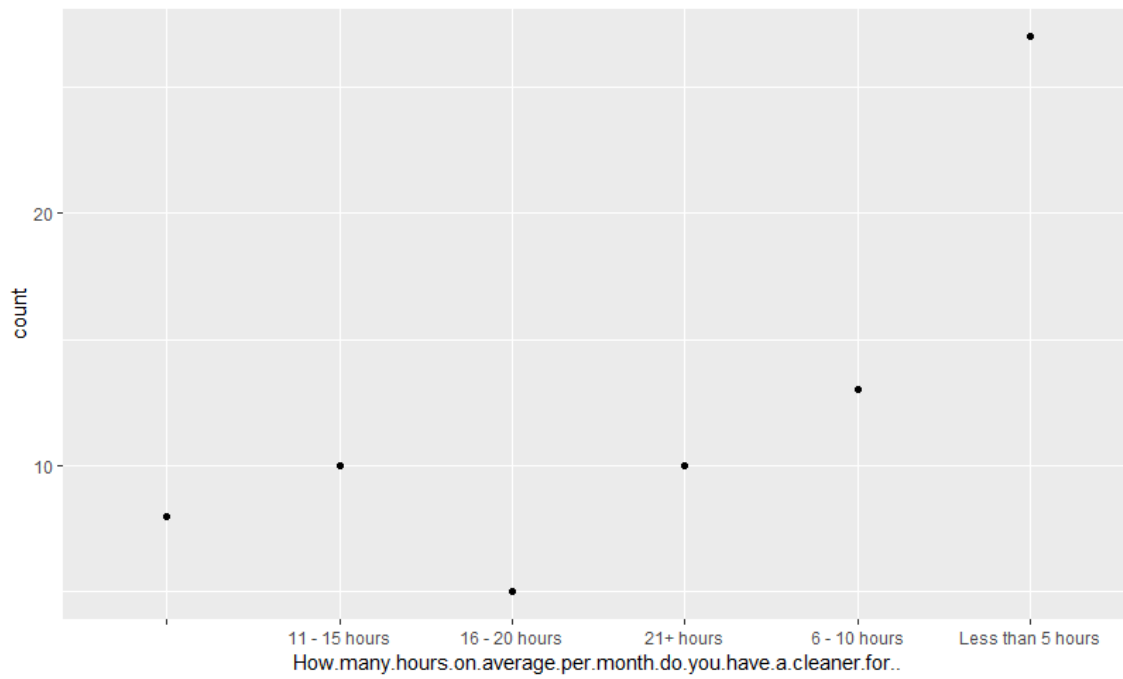


Fig:2

Above scatter plot displays the average hours people using housekeeping service.

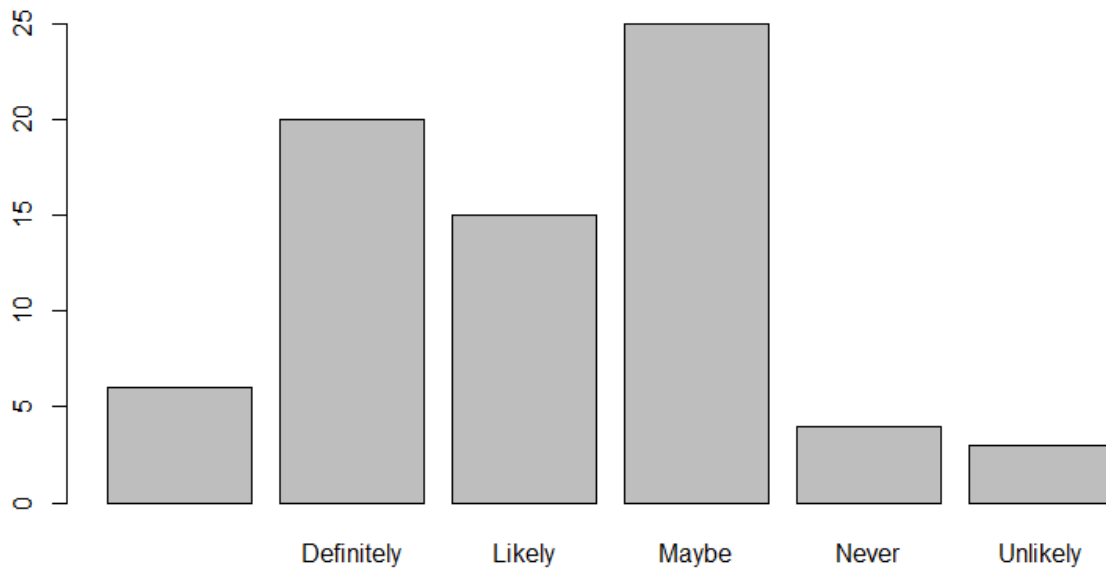


Fig:3

This graph represent the preference of people that how likely people would to use online service if made available.

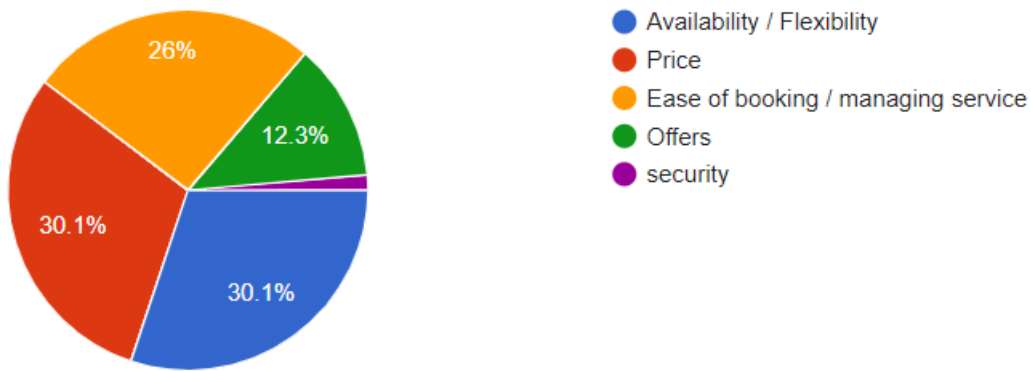


Fig: 4

Above pie chart displays the percentage of people for selecting an online cleaner.

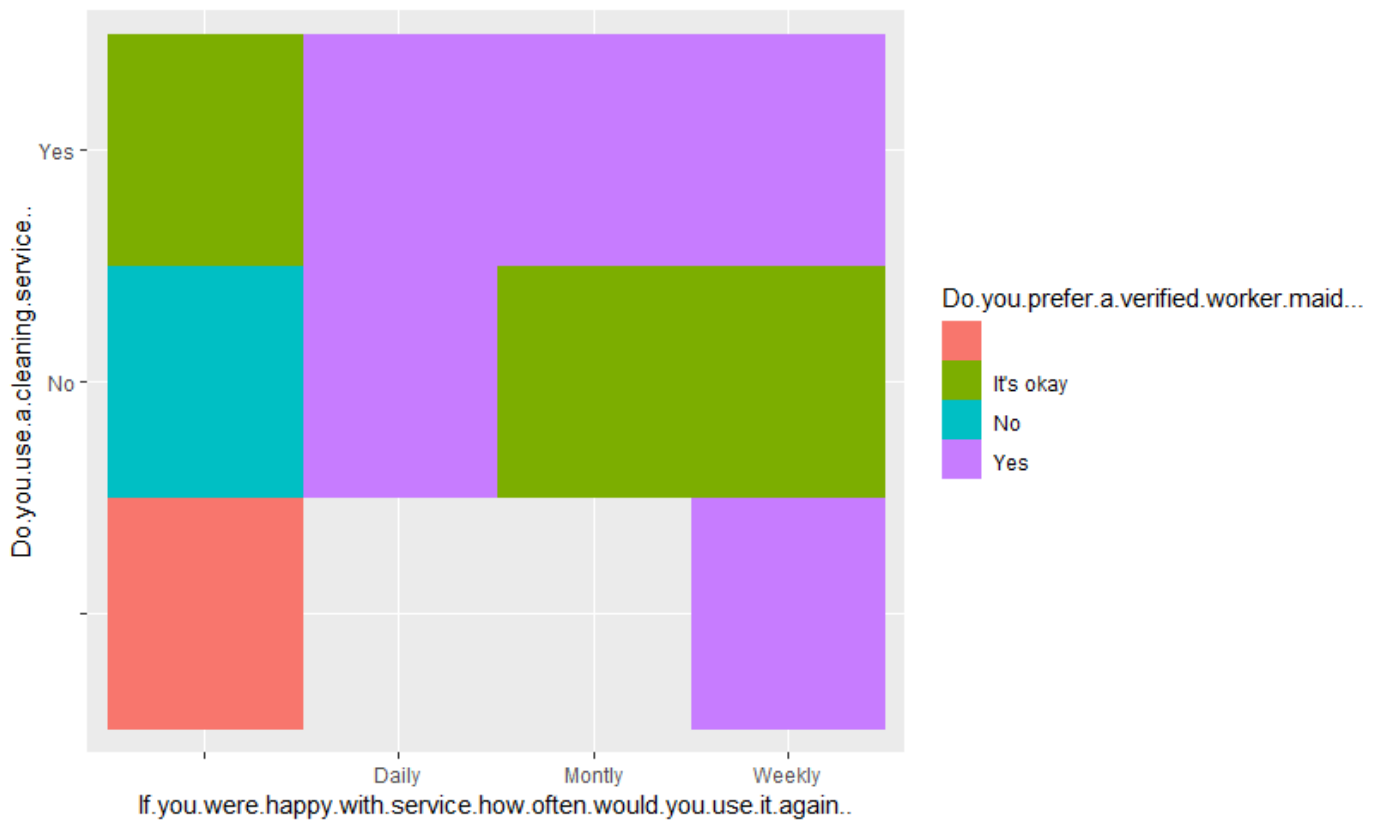


Fig:5

Above Waffle plot displays the relation between people using cleaning service and prefer verified maid and if they are happy how often they will you the service.

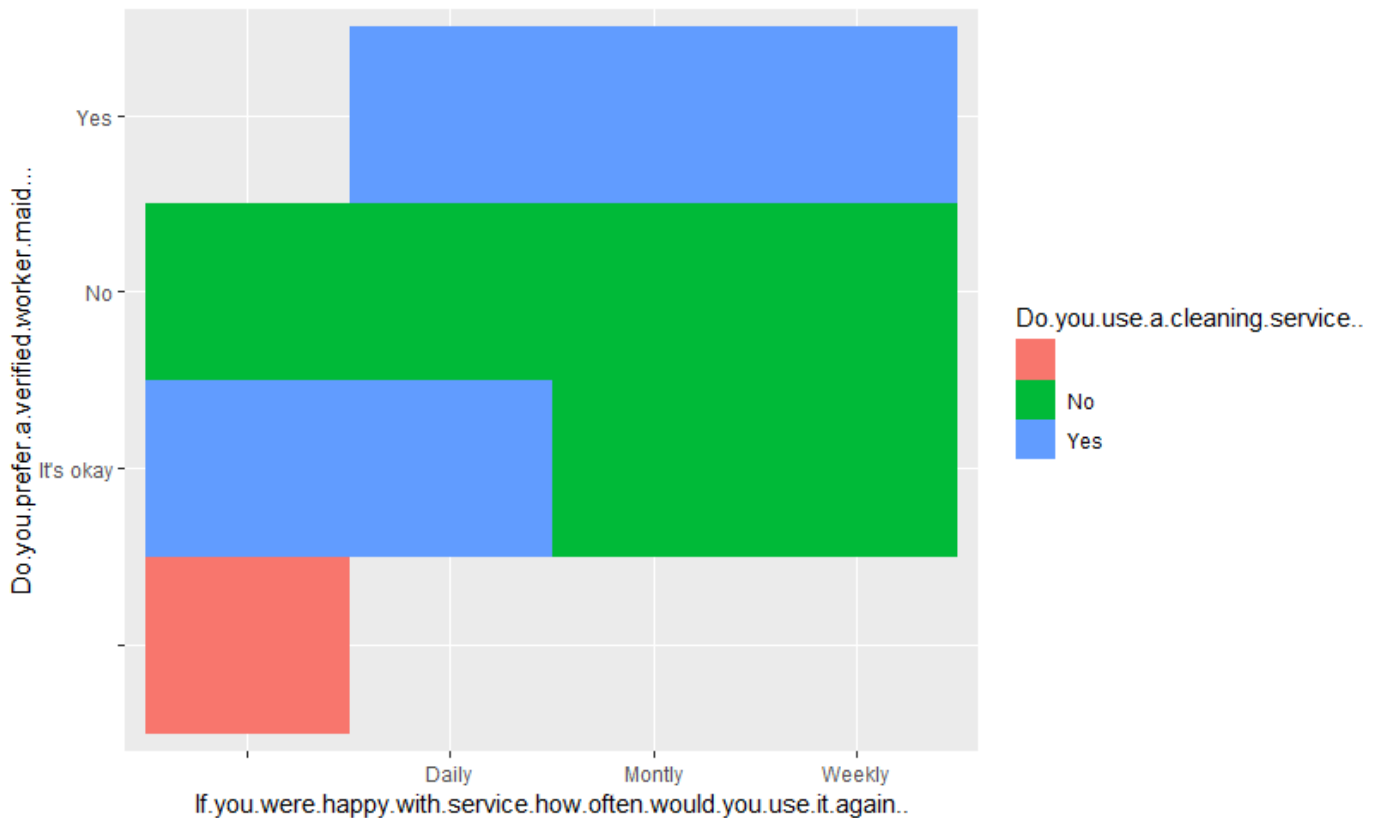


Fig:6

Above Tile plot displays the relation between people using cleaning service and prefer verified maid and if they are happy how often they will you the service

## V. Proposed System:

To overcome all this problem like searching housekeeping service, less charges or charges to the work done, security of family and households an application based verified housekeeping service will be develop in which charges will applied on the hours based or work done.so this will cover all the concern all the problem of customer booking a housekeeping service. "Pay for what you use" is the motto behind this application. People also a consider about charges applied to them so charge minimum amount or the exact amount of charges will be applied according to the work done

### a) System Architecture:

Proposed system is a online service based, user can select and pay according to need.

### b) System functionality:

Service will be made online and application based for user for easy usage of customer. Filter option will be provided for easy search. Software and website will show amount by sorting according to time and work usage. Service will be available as per requirement of customer daily, weekly, monthly or the work to be done. It will be userfriendly.

## VI. References:

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