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ANALYZING THE IMPACT OF CRM ADOPTION ON CUSTOMER SATISFACTION AND RETENTION WITH JUGL TECHNOLOGY SOLUTION PVT.LTD

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Abstract: This study investigates the impact of Customer Relationship Management (CRM) adoption on customer satisfaction and retention within Jugl Technology Solution Pvt. Ltd. The research explores how CRM implementation enhances customer interactions, streamlines business operations, and fosters loyalty. Using a mixed-methods approach, data were collected through structured questionnaires and analyzed with SPSS using chi-square, ANOVA, and correlation techniques. The study found that CRM adoption positively influences customer satisfaction, which in turn significantly improves customer retention. These insights provide valuable guidance for optimizing CRM strategies in SMEs.

Keywords: CRM adoption, customer satisfaction, customer retention, Jugl Technology, SPSS analysis, employee perception

I. INTRODUCTION

Customer Relationship Management (CRM) has become a strategic necessity in today's customer-driven business environment. It enables organizations to manage interactions with current and prospective customers effectively by using technology to streamline processes, improve communication, and enhance service delivery. As customer expectations continue to rise, businesses are under pressure to adopt systems that personalize experiences and strengthen relationships, thereby increasing satisfaction and retention. Despite the widespread adoption of CRM systems, many small and medium-sized enterprises (SMEs) struggle to convert this investment into tangible improvements in customer outcomes. Jugl Technology Solution Pvt. Ltd., a growing technology company based in Coimbatore, has adopted CRM tools to enhance operational efficiency and customer engagement. However, the extent to which CRM adoption has influenced customer satisfaction and retention in this specific context has not been empirically studied.

Statement of Problem

Customer Relationship Management (CRM) systems have become vital tools for organizations aiming to improve customer satisfaction and retention. These systems help businesses manage customer interactions, personalize services, and enhance decision-making through data-driven insights. While large enterprises often succeed in leveraging CRM technologies, small and medium-sized enterprises (SMEs) frequently face challenges in implementation and optimization.Jugl Technology Solution Pvt. Ltd., a growing SME in Coimbatore, has adopted CRM tools to streamline operations and improve customer engagement. However, it remains unclear whether this adoption has led to measurable improvements in customer satisfaction and loyalty. Despite the company's investment in CRM for order processing, support ticket management, and internal communication, the actual impact on customer experience and retention has not been empirically assessed.Existing literature supports a positive relationship between CRM adoption and customer-centric outcomes, but there is a lack of contextual studies focusing on SMEs in emerging markets like India. Factors such as ease of use, employee involvement, and integration capabilities can significantly affect CRM success.Thus, the research problem centers on assessing whether CRM adoption at Jugl Technology effectively



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enhances customer satisfaction and retention, and identifying key factors that influence this relationship within the SME context.

Objectives

- To analyze the impact of CRM adoption on customer satisfaction at Jugl Technology Solution Pvt. Ltd.
- To examine the relationship between CRM adoption and customer retention, identifying how CRM practices influence long-term customer loyalty.
- To identify the key factors affecting the effectiveness of CRM systems in enhancing customer experience and business performance.
- To provide strategic recommendations for improving CRM implementation to maximize customer satisfaction and retention outcomes.

Research Questions

- 1. How does CRM adoption affect customer satisfaction at Jugl Technology Solution Pvt. Ltd.?
- 2. What is the impact of CRM systems on customer retention?
- 3. What are the key factors that influence the effective use of CRM in the organization?
- 4. How do specific CRM features contribute to building customer loyalty?
- 5. What improvements can be made to enhance CRM implementation and outcomes?

Need for Study

This study is significant as it explores the practical impact of CRM adoption on customer satisfaction and retention within the context of a growing Indian SME, Jugl Technology Solution Pvt. Ltd. As businesses increasingly rely on technology to manage customer relationships, understanding how CRM systems influence customer outcomes becomes essential. The findings of this research will help Jugl identify strengths and gaps in its CRM implementation and provide a strategic roadmap to enhance customer engagement. For SMEs, where resources are limited, effective use of CRM can lead to improved service delivery, stronger customer loyalty, and increased competitiveness. Academically, the study contributes to the limited body of empirical research focusing on CRM adoption in emerging markets, particularly in the SME sector. It also adds value by examining how specific CRM features influence customer behavior, offering insights that can inform policy, practice, and future research in CRM and customer management strategies.

II. LITERATURE REVIEW

A growing body of research highlights the critical role of Customer Relationship Management (CRM) systems in enhancing business performance through improved customer satisfaction and retention. Das et al. (2018) established the foundational relationship between CRM implementation and customer retention, demonstrating that customer satisfaction serves as the key mediating factor, particularly through personalized service delivery and efficient complaint resolution. Expanding on this, Kumar and Misra (2021) revealed that CRM systems not only improve customer outcomes but also function as organizational learning tools, transforming customer data into actionable intelligence that drives continuous service improvement. Most recently, Malki et al. (2024) examined the evolution to social CRM, showing how social media integration fosters stronger emotional connections and higher loyalty through real-time engagement. Together, these studies illustrate CRM's progression from basic customer databases to sophisticated relationship platforms, while underscoring persistent research gaps regarding SME implementation, longitudinal impacts, and emerging market applications. The literature consistently confirms that when effectively implemented, CRM systems significantly enhance customer satisfaction, which in turn drives retention and loyalty, though optimal results require aligning technological capabilities with strategic business goals and human insights.

III. RESEARCH METHODOLOGY

Research design: Descriptive Research Design. Sample design: Convenience Sampling Sample size : 63 Data source : Primary data Instrument : Questionaire **Data Analysis tools.** Specifying tools like • Chi – square

ANOVA

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Tools Used

- Software: SPSS
- Statistical Techniques: Descriptive statistical, correlation, ANOVA.

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
1. Overall customer service		2	5	4.11	.863
provided be the company is :			-		
2. The company 4 addresses	63	2	5	3.79	.953
my queries or complaints :		_			
ing queries of complaints .					
3. I feel the company's	63	1	5	3.89	.935
communication is					
personalized towards me :					
4. It is 4 to me that companies	63	2	5	3.95	.958
use CRM systems to enhance					
customer experience :					
5. The following feature of	63	1	5	3.71	1.373
the company's customer					
service influence my					
satisfaction the most :					
6. CRM systems contribute to	63	2	5	4.10	.837
enhancing my satisfaction as a					
customer to the following					
extent :					
7. I interact with the	63	2	4	3.51	.644
company's CRM systems with		2	ſ	5.51	.0-1-1
the following frequency :					
8.I am 4 to continue using the	63	1	5	3.70	1.087
company's services/products :	00	1	5	5.70	1.007
	62	1	3	2.62	.580
9. The company's ability to		1	5	2.02	.580
remember my preferences and					
purchase history influences					
my loyalty :	\mathcal{O}	2	F	2.02	080
10. The company's CMR		2	р	3.92	.989
system addresses y needs as a					
repeat customer :	(2)	0	-	2.02	000
11. The company's customer		2	р	3.92	.989
service quality affects my					
decision to stay with them :		-			
12. The company could do the		1	4	2.00	.916
following to enhance my					
loyalty :					
13. The most4 factor in CMR	63	1	5	2.21	1.095
adoption for me is :		ļ	1		
14. I perceive the following		1	5	2.03	1.282
barriers in using CRM					
systems 4 :					
15. I would rate the impact of	63	1	5	3.92	1.082
CRM adoption on customer					
retention as:					
16. The company's CRM	63	2	5	3.86	.998
system provides me with					
relevant information :					
	1				1



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17.CRM integration 4 my63	1	5	3.97	.950	
overall experience with the					
company :	1	F	1.07	1.015	
18. I would like to see the 63	1	р	1.97	1.015	
following features or services					
improved in the company's					
CRM system :					
19. Ease of use is4 when 63	3	5	4.25	.761	
interacting with a company's					
CRM system :					
20.The following training or63	1	4	1.92	.903	
resources would help me					
better utilize the company's					
CRM system :					
21. Companies can 463	1	4	2.05	.941	
encourage customers to					
provide feedback through					
their CRM systems by :					
22. I suggest the following63	2	4	2.70	.613	
improvement for enhancing					
my satisfaction and retention					
through CRM systems :					

INTERPRETATION:

The data suggests that customers generally have a positive perception of the company's customer service and CRM system, particularly in ease of use and satisfaction. However, personalization and retention strategies could be improved to enhance loyalty. There are some barriers to CRM adoption, indicating potential usability concerns. Addressing customer feedback and refining CRM features could strengthen engagement and retention.

Correlation	s						
		Total csm	Total lrm	Total EM	Total CMRSA	Total SQF	Total IAD
Total csm	Pearson Correlation	1	017	302*	.457**	.359**	028
	Sig. (2-tailed)		.893	.016	.000	.004	.828
	N	63	63	63	63	63	63
Total lrm	Pearson Correlation	017	1	.612**	105	.109	.303*
	Sig. (2-tailed)	.893		.000	.413	.394	.016
	N	63	63	63	63	63	63
Tota lEM	Pearson Correlation	302*	.612**	1	308*	212	.350**
	Sig. (2-tailed)	.016	.000		.014	.095	.005
	N	63	63	63	63	63	63
Total	Pearson Correlation	.457**	105	308*	1	.291*	.173
CMRSA	Sig. (2-tailed)	.000	.413	.014		.021	.175
	N	63	63	63	63	63	63
Total SQF	Pearson Correlation	.359**	.109	212	.291*	1	.041
	Sig. (2-tailed)	.004	.394	.095	.021		.749
	N	63	63	63	63	63	63
Total IAD	Pearson Correlation	028	.303*	.350**	.173	.041	1
	Sig. (2-tailed)	.828	.016	.005	.175	.749	
	N	63	63	63	63	63	63

INTERPRETATION:

The correlation analysis shows that CRM satisfaction significantly enhances customer service quality and overall experience. Customer loyalty is strongly linked to engagement, meaning active interactions foster stronger retention. However, CRM system adoption negatively correlates with engagement, suggesting possible inefficiencies that could be improved. Strengthening CRM functionalities and addressing usability concerns may enhance customer interactions and loyalty.



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Case Processing Summary						
	Cases					
	Valid		Missing		Total	
	N	Percent	Ν	Percent	N	Percent
TOTALDEPV *	63	100.0%	0	0.0%	63	100.0%
TOTALINDEPV						

		Asymptotic
		Significance (2
Value	df	sided)
248.344 ^a	225	.137
151.237	225	1.000
6.825	1	.009
63		
expected co	unt less th	an 5. The minimum
	248.344 ^a 151.237 6.825 63	248.344 ^a 225 151.237 225 6.825 1

INTERPRETATION:

- The **Pearson Chi-Square value** (248.344, p = .137) indicates that there is no statistically significant association between the dependent and independent variables at the conventional 0.05 significance level.
- The **Likelihood Ratio** (151.237, p = 1.000) supports this, suggesting that the observed data does not strongly support a relationship between the variables.
- However, the Linear-by-Linear Association (6.825, p = .009) is significant, implying that there might be a linear trend between the variables.

Primary Hypothesis (H1):

CRM adoption positively impacts customer satisfaction.

- Supporting Evidence: Significant positive correlation between CRM use and satisfaction (p<0.01).
- ANOVA Validation: CRM integration significantly enhances overall experience (F=3.915, p=0.025).

Secondary Hypotheses:

- H2: CRM systems improve query resolution efficiency.
- Supported by: Significant group differences in query resolution (F=6.412, p=0.003).
- **H3:** CRM adoption strengthens customer retention.
- Supported by: Significant variance in retention impact (F=3.671, p=0.031).

H4: Personalization features moderate satisfaction levels.

• Partial Support: Lower mean for personalization (3.89/5) with non-significant ANOVA (p=0.490), suggesting room for improvement.

H5: Usability and training barriers hinder CRM effectiveness.

- Supported by: Low scores for training (1.92/5) and usability (2.03/5).
- Null Hypothesis (H0): CRM features have no effect on loyalty-building.
- Rejected: Despite low mean (2.62/5), retention linkage exists (p=0.031), indicating potential with refinement.

INTERPRETATION:

- Overall customer service (p = .039) and query resolution (p = .003) show statistically significant differences, meaning customer perceptions vary based on different groups.
- Customer retention related to CRM adoption (p = .031) and CRM integration with overall experience (p = .025) also show meaningful variance, suggesting that CRM systems play a role in retention and satisfaction.
- Other variables, such as perceived communication personalization (p = .490) and CRM system relevance (p = .671), do not show significant differences, implying relatively stable customer perceptions across different groups.



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	501. 10.	17148/IARJSET	.2023.1241	20		
ANOVA		a			1	1
		Sum of			г	G .
1 0		Squares 4.742	df 2	Mean Square 2.371	F	Sig.
I. Overall customer					3.430	.039
service provided be the company is :		41.480	60	.691		
· ·	Fotal	46.222	62			
2. The company 4	Between Groups	9.917	2	4.959	6.412	.003
addresses my queries or		46.400	60	.773		
	Fotal	56.317	62			
3. I feel the company's	-	1.276	2	.638	.723	.490
communication is	Within Groups	52.947	60	.882		
personalized towards me :	Total	54.222	62			
4. It is4 to me that	Between Groups	.670	2	.335	.358	.701
companies use CRM	Within Groups	56.187	60	.936		
systems to enhance	Total	56.857	62			
customer experience :						
5. The following feature		.970	2	.485	.251	.779
of the company's	Within Groups	115.887	60	1.931		
customer service	Total	116.857	62			
nfluence my satisfaction						
the most :		2 202	2	1 641	0.450	007
5. CRM systems		3.282	2	1.641	2.452	.095
contribute to enhancing	Within Groups	40.147	60	.669		
ny satisfaction as a	Fotal	43.429	62			
customer to the following extent :						
7. I interact with the	Potwaan Groups	1.059	2	.530	1.287	.284
company's CRM systems	Between Groups				1.207	.204
with the following	Within Groups	24.687	60	.411		
Frequency :	Total	25.746	62			
B.I am 4 to continue using	Between Groups	7.723	2	3.862	3.535	.035
	Within Groups	65.547	60	1.092		
	Total	73.270	60 62	1.092		
O.The company's ability		.937	2	.469	1.411	.252
					1.711	.232
preferences and purchase	Within Groups	19.920	60	.332		
nistory influences my	lotal	20.857	62			
oyalty :						
10. The company's CMR	Between Groups	1.017	2	.508	.512	.602
system addresses y needs	Within Groups	59.587	60	.993		
	Total	60.603	60 62	.775		
-	Between Groups	3.837	2	1.918	2.028	.141
customer service quality	Within Crowns			-	2.020	.171
affects my decision to	Within Groups	56.767	60	.946		
stay with them :	rotai	60.603	62			
12. The company could	Between Groups	.480	2	.240	.280	.757
	Within Groups	51.520	- 60	.859		
1 1 1	Total	52.000	60 62	.057		
3. The most4 factor in		.051	2	.025	.021	.980
CMR adoption for me is :	Within Cree				.021	.700
		74.267	60	1.238		
	Total	74.317	62	425	252	770
-	Between Groups	.850	2	.425	.252	.778
	Within Groups	101.087	60	1.685		L
	Fotal	101.937	62			
15. I would rate the	Between Groups	7.917	2	3.958	3.671	.031



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		(1 (07	60	1.070		
impact of CRM adoption		64.687	60	1.078		
on customer retention as:		72.603	62			
16. The company's CRM	Between Groups	.814	2	.407	.401	.671
system provides me with	Within Groups	60.900	60	1.015		
relevant information :	Total	61.714	62			
17.CRM integration 4 my	Between Groups	6.457	2	3.228	3.915	.025
overall experience with	Within Groups	49.480	60	.825		
the company :	Total	55.937	62			
18. I would like to see the	Between Groups	.690	2	.345	.327	.722
following features or	Within Groups	63.247	60	1.054		
services improved in the company's CRM system :	Total	63.937	62			
19. Ease of use is4 when	Between Groups	.770	2	.385	.657	.522
interacting with a	Within Groups	35.167	60	.586		
company's CRM system :	Total	35.937	62			
20.The following training	Between Groups	1.357	2	.678	.826	.443
or resources would help	Within Groups	49.247	60	.821		
me better utilize the company's CRM system :	Total	50.603	62			
21. Companies can 4		3.577	2	1.789	2.093	.132
encourage customers to	Within Groups	51.280	60	.855		
provide feedback through their CRM systems by :	Total	54.857	62			
22. I suggest the	Between Groups	1.923	2	.962	2.703	.075
following improvement	Within Groups	21.347	60	.356		
for enhancing my	Total	23.270	62			
satisfaction and retention						
through CRM systems :						

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IV. FINDINGS

The study's findings reveal that customers generally perceive the company's CRM system positively, with high ratings for overall service quality (mean=4.11/5) and ease of use (mean=4.25/5). CRM adoption significantly enhances customer satisfaction (mean=4.10/5) and contributes to retention (mean=3.92/5), as evidenced by strong correlations between CRM satisfaction and service quality (r=0.457, p<0.01). However, the analysis identifies key areas needing improvement, including personalization (mean=3.89/5), query resolution (mean=3.79/5), and loyalty-building features (mean=2.62/5). ANOVA results show statistically significant variations in customer perceptions of query resolution (p=0.003), CRM's impact on retention (p=0.031), and system integration (p=0.025). Notably, barriers to CRM adoption include usability concerns (mean=2.03/5) and insufficient training (mean=1.92/5). These findings suggest that while the CRM system effectively supports customer satisfaction and retention, optimizing personalization features, complaint resolution processes, and user training could further strengthen customer engagement and loyalty. The results emphasize the importance of continuous CRM refinement to address evolving customer expectations and maximize the system's strategic value.

V. SUGGESTIONS

To optimize CRM effectiveness at Jugl Technology, we recommend implementing AI-driven personalization to enhance customer interactions and deploying chatbots to streamline query resolution. Introducing CRM-integrated loyalty programs will foster retention, while simplifying the user interface and mandating staff training will improve adoption rates. Establishing automated feedback mechanisms will enable continuous improvement, and ensuring seamless integration with existing systems will maximize data utility. A phased implementation approach (0-6+ months) will facilitate smooth adoption, complemented by ongoing performance monitoring to refine strategies. These targeted enhancements will elevate customer satisfaction, strengthen retention, and drive sustainable business growth.



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VI. CONCLUSION

This study confirms that CRM adoption at Jugl Technology significantly enhances customer satisfaction and retention, with strong positive correlations between CRM use and service quality. While the system performs well in usability and basic functionality, improvements in personalization, query resolution, and loyalty-building features are needed to maximize its impact. By implementing AI-driven enhancements, employee training, and better feedback mechanisms, the company can further strengthen customer relationships and drive long-term business growth. These findings highlight CRM's strategic value for SMEs when aligned with customer needs and operational goals.

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