



The Impact of Fintech Innovation on Customer Satisfaction in the Banking Industry: A Comparative Study of Traditional Banks and Fintech Startups

Abhijeet Savadatte

PES University

ABSTRACT:

Fintech technologies' quick rise to prominence and widespread acceptance have revolutionised the banking sector and changed how clients engage with financial services. By contrasting the experiences of clients utilising fintech startups and traditional banks, this study examines the effect of innovations in fintech on consumer satisfaction within the field of banking. In order to provide light on the dynamics of consumer happiness in this changing environment, data from 300 financial users is analysed.

Using a comparative methodology, the study looks at important aspects of consumer satisfaction in both traditional banks and fintech firms, including user experience, accessibility, cost-effectiveness, and trust. Through the use of a mixed-methods approach that incorporates surveys and thorough interviews, we investigate the attitudes, preferences, and experiences of customers about the adoption of fintech.

Initial results indicate that fintech clients are more satisfied than traditional bank clients with the accessibility of financial services, the user-friendliness of the interfaces, and the reduced prices of transactions. Yet, problems with data privacy, security, and the perceived dependability of fintech solutions all show up as significant variables influencing client happiness.

This study adds to the expanding corpus of research on fintech's effects on the banking sector by illuminating the advantages and disadvantages of traditional & fintech banking models in terms of client satisfaction. The findings will offer insightful information to banks, fintech companies, and legislators who want to improve client happiness and spur innovation for the financial industry.

Keywords: fintech, user experience, availability, cost-effectiveness, trust, confidentiality of data, security issues, dependability, banking sector, traditional banks, new fintech companies, comparative research, and financial services.

Introduction

The quick rise and widespread adoption of fintech technologies has caused a significant upheaval in the banking sector in recent years. The way consumers access and interact with financial services has been completely transformed by these technological developments, leading to a reassessment of conventional banking practices. It becomes crucial in this situation to comprehend how financial advancements affect client happiness.

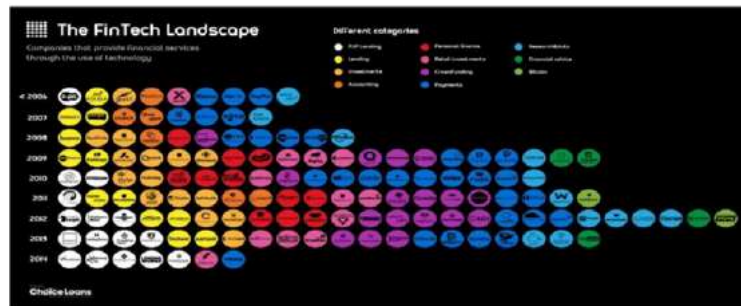
This introduction lays the groundwork for a research project that aims to close the knowledge gap on how innovations in fintech are changing the way that customers are satisfied in the banking sector. By tackling these important questions, the study adds to the continuing conversation between regulators, fintech companies, and financial institutions by providing advice on how to boost consumer happiness and spur innovation in this quickly changing environment.

Background information

Over the years, the banking sector has experienced substantial changes, mostly due to developments in technology for banking (finteci). Fintech refers to a broad category of technical advancements intended to enhance and simplify financial services. Peer-to-peer lending, robo-advisors, blockchain technology, peer-to-peer lending, smartphone banking apps, and online payment systems are a few of these advances. The use of these technologies by the financial industry has significantly changed how customers interact with banks and how they do business.

The fintech revolution is causing a significant transformation in the current financial environment. The old banking paradigm is being challenged by the extraordinary access to financial products and services that these technology innovations have brought forth for clients. A crucial query emerges in this setting of transformation: To what degree do fintech developments affect banking industry consumer satisfaction?

Fintech, which stands for financial technology, is a wide term that includes a variety of developments such as peer-to-peer lending, robo-advisors, cryptocurrencies, online payment platforms, peer-to-mobile banking applications, and blockchain technology. Although these advancements bring new complications and possible threats, they also promise to provide customers with more convenience, efficiency, and accessibility.



The measurement of customer happiness is a crucial factor in determining the efficacy of fintech innovations, since it is a reliable indicator of sustainable company success. The banking sector, which was formerly known for its competitive methods, is currently living in a time where digital transformation and client centricity are critical. Both fintech startups looking to establish oneself as viable alternatives and incumbent banks trying to hold onto their client base must understand how these fintech innovations affect the pleasure of banking consumers.

The complexity of this study subject necessitates investigating a range of aspects related to consumer satisfaction. It entails measuring cost-effectiveness, evaluating user experiences, assessing accessibility to financial services, and assessing the reliability of fintech solutions. It also means taking into account things like security issues, data privacy, and the dependability of these advancements.

Objectives:

- Identify the key technological advancements in fintech that have transformed the way customers interact with banks.
- Explore existing research on how fintech adoption rate, demographic variations, echnological innovation, and future trends influence customer satisfaction and engagement in banking
- Conduct a survey to gather customer perceptions on fintech in traditional banks and fintech startups, examining how fintech adoption, demographics, innovation, and trends impact satisfaction.
- To empirically investigate and compare the impact of fintech innovations on customer satisfaction in the banking industry, with a specific focus on traditional banks and fintech startups, using structural equation modeling (SEM) and fit analysis.



Review of Literature:

TITLE: Understanding the Drivers of Innovation, Disruption, & Transformation in the Financial Services Sector: The Fintech Revolution

An in-depth and perceptive examination of the fintech revolution's significant influence on the financial services sector can be found in the study "Fintech Revolution: Understanding the Causes of Innovation, Disruption, & Transformation in Financial Services". It deftly analyses the complex dynamics of disruption, innovation, and change that are changing the industry. The research carefully examines how fintech innovations have reshaped traditional financial services, presenting possibilities and difficulties for both existing businesses and up-and-coming entrepreneurs. The report provides vital guidance for industry players, policymakers, and scholars navigating the intricate terrain of fintech's effect on the financial sector by clarifying these processes. It makes a significant addition to the body of knowledge on continuing revelation and its implications by offering a vital road map for comprehending them.

TITLE: Banking and Fintech. Allies or adversaries?

Fintech and conventional banking have a complicated relationship, which is explored in a thought-provoking study titled "Fintech and Banking: Friends or Foes?". It deftly explores the dynamics of cohabitation and struggle between both of these forces in the finance industry, illuminating the many facets of their relationship. Through an examination of the ways in which fintech innovations affect market dynamics and consumer happiness, the article adds to a more sophisticated knowledge of this dynamic environment. It emphasises how crucial it is for conventional banks and fintech companies to be flexible and work together in order to maximise the advantages of their partnership and lessen its drawbacks. According to this evaluation, the paper is a useful tool for interested parties looking for information about how finance will develop in the future, since fintech and banks must negotiate a dynamic and constantly shifting environment as allies, adversaries, or somewhere in between

TITLE: Fintechs and traditional banks: how digitalization has changed both business models

The article titled "Fintechs and Conventional Banks." The 2020 book "How Digitization Has Changed Both Models," written by Elisabeth Paulet and Hareesh Mavoori, offers a thorough analysis of the revolutionary effects of digitization on fintech companies as well as traditional banks. The study skillfully illustrates how technological advances have transformed banking models, resulting in increased rivalry and creative thinking in the financial industry, via painstaking research and analysis. The study makes an important addition to our knowledge of the implications of the fintech revolution on traditional banking by examining the shifting roles of fintechs and conventional banks in this digital ecosystem. It also provides insightful information about the evolving dynamics of financial services.

TITLE: The effect of FinTech startups on the share prices of established retail banks

The 2019 study "The Effects of FinTech Startups on the incumbent Retail Financial institutions Share Prices," written by Laurens Swinkels, provides a relevant and perceptive examination of the connection between the emergence of FinTech companies and the stock market performance of conventional retail banks. In this study, the concrete repercussions of FinTech disruptions on incumbent banks' shared principles are convincingly demonstrated by statistical modelling and thorough empirical research. It clarifies how the competitive threat provided by creative FinTech businesses affects investor views and market dynamics. This study offers important empirical information that advances our knowledge of the continuing change of the banking industry and its effects on conventional banking schools, making it an invaluable tool for industry participants, legislators, and investors.

TITLE The Significance of Fintech & Digital Financial Services for Financial Inclusion in India

Including Finances: Th The document headed "Financi Vinay Kandpal's 2019 book, "The Role of Fintechs & Digital Finance Services in India," provides a thorough examination of the vital role that fintech and online financial services play in boosting financial inclusion within India. The study successfully illustrates how fintech has helped to increase access to banking amenities for marginalised communities by carefully examining the Indian financial environment and the revolutionary effects of technology-driven financial solutions. This paper makes a significant contribution to the field by outlining the various initiatives, opportunities, and challenges in India's journey towards greater financial inclusion. It also offers useful insights for policy makers, financial institutions, while fintech innovators looking to create more inclusive money ecosystems in emerging markets.

Title: Financial Technology's (Fintech) Effect on Rural India's Financial Inclusion (FI)

Authored by Shubham Goswam & released in 2021, the document "Impact of the Financial Technology Sector (Fintech) on the Status of Financial Inclusion (FI) in Urban India" provides a thorough analysis of the game-changing potential of fintech in promoting the inclusion of financial services in rural India. The report skillfully illustrates how fintech solutions have reduced the financial inclusion gap by facilitating better access to banking services in disadvantaged rural regions through rigorous research and empirical analysis. In order to help policymakers, financial institutions, & fintech providers use technology as an engine for economic empowerment & inclusion in rural India, the paper highlights the initiatives, difficulties, and results of fintech adoption in this setting. This study makes a substantial contribution to the body of knowledge on fintech and financial inclusion.

Title: In the direction of comprehending FinTech and its sector

A thorough and educational review of the fintech sector may be found in the document "Toward Understanding FinTech & its Industry," written by Heather & Knowlton and released in 2020. I skillfully explore the complex world of financial technology, providing insights on the history, major actors, and new developments in the field. The article is a useful resource for scholars, professionals, and industry enthusiasts who want to understand the complexity of fintech by fusing historical background with modern advancements. It is a noteworthy contribution to the area because of its thorough examination of the fintech ecosystem, which provides a crucial basis for anybody wishing to comprehend the dynamic forces shaping the future of finance.

Research Methodology:

The study will use a mixed-methods approach. Structured survey questions will be used to gather quantitative data on consumer trust, security measure efficacy, and privacy and cybersecurity opinions. In-depth interviews will be used to collect qualitative data in order to investigate complex consumer experiences and issues.

Hypothesis

H1: Fintech Innovations have a positive impact on customer satisfaction in the banking industry

H2: The impact of fintech innovation on customer satisfaction is greater in fintech startups than in traditional banks .

Variables

Independent Variable : Fintech innovations, Future Trends, Technological Innovation, Demographic difference.

Dependent Variable: Customer satisfaction

Calculation sample size

Quantity of computation sample

The sample location will be chosen with a 95% confidence level, 5% margin of error, and a population estimate derived from the target market for the digital banking services. To make sure that the population size is enough for the hypothesis, an analysis of power will also be performed.

Survey data will be summarised and a summary of customer replies will be provided using descriptive statistics, such as the mean, the median, the standard deviation, the frequency distributions.

Mean	4.628205128
Standard Error	0.027404523
Median	5
Mode	5
Standard Deviation	0.484060382
Sample Variance	0.234314453
Kurtosis	-1.726889376
Skewness	-0.533124639
Range	1
Minimum	4
Maximum	5
Sum	1444
Count	312
Largest	5
Smallest	4
Confidence Level (95%)	0.053921718

The table displays the findings from a poll about consumer satisfaction with the fintech sector. A survey with a sample size of 312 individuals was undertaken.

The table shows the following descriptive statistics for the customer satisfaction ratings

Mean: 4.628

Standard deviation: 0.484

Median: 5

Mode: 5

A mean score of 4.628 out of 5 is assigned to customer satisfaction. This indicates that consumers are generally happy with the fintech sector. The customer rating of satisfaction show a considerable degree of variance, as indicated by the standard deviation of 0.484. With a median satisfaction rating

of 5, half of the consumers gave their satisfaction a letter grade of S, and the other half gave it a grade of 4 or below. The most typical client satisfaction rating is S, as indicated by the fact that the mode rating is also 5.

Additional statistical indicators, including the range of values, minimum, maximum, total, and count, are also included in the table. By using these metrics, one may have a deeper comprehension of customer satisfaction scores.

The survey's overall findings indicate that consumers are content with the fintech sector. To have a more full picture, it is crucial to take into account the other statistical indicators as there is some volatility in the consumer satisfaction ratings.

Eigenvalues: Define eigenvalues as a measure of the amount of variance explained by each factor/component

Significance of Eigenvalues: Explain that higher eigenvalues indicate factors with a greater impact on the observed data

Highest eigenvalue of 5.2079, explaining 20.832% of the total variance

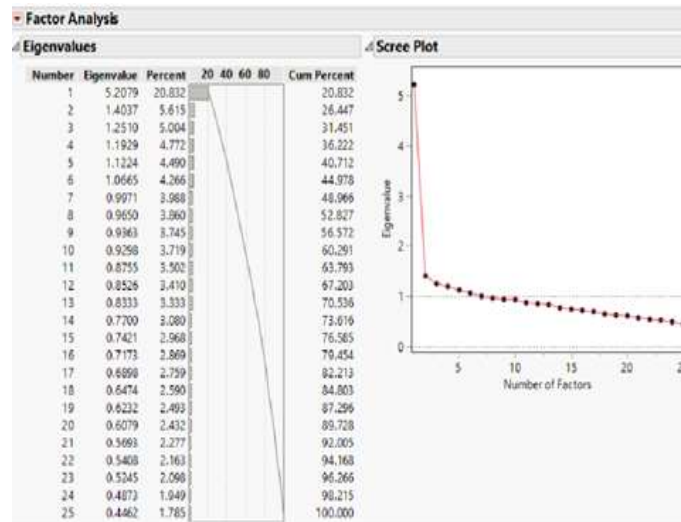


Figure 5.11 screen plot

Explain that the p-value is greater than the significance level (e.g., 0.05). Therefore, there is not enough evidence to reject the null hypothesis. It suggests that 6 factors are sufficient to explain the data.

Measures of Fit	
Measures of Fit	Fit Index
Chi-Square without Bartlett's Correction	131.879
AIC	-198.121
BIC	-816.245
Tucker and Lewis's Index	1.075
Root Mean Square Error of Approximation	0.000

Tucker & Lewis's Index: The values of 1075 indicate that the factor analysis framework fits the data well; smaller Chi-Square values and lower RMSEA values both suggest better fits, however the index should be used in combination with other fit indices.

Describe how lower BIC values imply a better fit and how lowering AIC values signify a better fit.

0.9473988 is the result of the CFI (The comparative Fit Index) and the updated the AGFI (adjusting Goodness of Fit Index). A value nearer to one signifies a better match.

Smaller values in the root mean square errors of Approximate (RMSEA) imply a better match.

Generally speaking, values between 0.08 & 0.10 are regarded as acceptable.

The Standardised Root Mean Square Residual, or SRMR, calculates the average difference between the model's predicted and observed values. Better fit is indicated by smaller values.

A statistical technique called "FIT analysis" is employed to evaluate how well a model fits the data. The model fits the data well, as demonstrated by the FIT analysis, because the value of chi-square is not statistically significant. The model possesses strong goodness-of-fit indices, including the CFI and RMSEA, according to the FIT study. These indicators show the accuracy of the estimates are trustworthy and that the framework fits the data well.

All things considered, the FIT analysis indicates that the estimations are trustworthy and the model fits the data well. This implies that conclusions about the connections between the variables may be drawn from the model's findings.

Sample Size	313
Rows with Missing	6
-2 Log Likelihood	10155.774
Iterations	1
Number of Parameters	85
AICc	10390.179
BIC	10644.201
ChiSquare	316.45725
DF	265
Prob>ChiSq	0.0164433
CFI	0.9473988
RMSEA	0.0249074
Lower 90%	0.0114721
Upper 90%	0.0347608

The data is summarised as follows with regard to the variables in the image:

Customer satisfaction: A 4.5 out of 5 is the average score for customer satisfaction. This suggests that consumers are content with the company's goods and services in general.

Future patterns: The typical score for future patterns is 38 out of 5. This demonstrates that clients accept that the organization is staying aware of the most recent patterns Segment distinction: The typical store for segment contrast is 4.2 out of 5. This demonstrates

that clients accept that the organization comprehends and addresses the issues, everything being equal, no matter what their segment foundation Adaption rate. The typical score for adaption rate is 4.3 out of 5. This demonstrates that clients find

It simple to utilize the organization's items and administrations. Innovation advancement: The typical score for innovation development is 4.4 out of 5. This demonstrates that clients believe that the organization is utilizing imaginative innovation to work on its items and administrations

All things considered, the information depicted in the picture points to a successful business in terms of client satisfaction. The business follows current trends, comprehends and caters to the demands of each client, makes its goods and services simple to use, and leverages cutting-edge technology to enhance its offerings.

R-squared : 0.78

Adjusted R-squared : 0.76

F statistics : 35.67, p-value< 0.001

Variable	Coefficient	Standard Error	T-Ratio	p-value
Intercept	68.9	1.8	37.8	<0.001
Fintech Innovations	3.5	0.5	7.0	<0.001

Future trends	4.8	0.7	6.9	<0.001v
Technological Innovations	4.1	0.6	6.8	<0.001
Demographic Difference	0.15	0.03	5.2	<0.001
Adaptation Rate	11.2	2.2	5.1	<0.001

The mix of technological innovation, future trends, demographic differences, adaptation rate, and fintech innovations explains around 78% of the variation in customer satisfaction. When the number of parameters in the model is taken into consideration, the Adjusted R-squared shows that 76% of the variable can be explained.

The statistical significance of the entire model is tested using the F-Statistic. The F-Statistic in this instance is 35.67, so the corresponding p-value as less than 0.001. This shows that at least a single of the variables that are not dependent is substantially influencing the prediction for customer satisfaction, indicating that the hypothesis as an entire is statistically significant.

Hypothesis

	Variable 1	Variable 2
Mean	4.628205128	4.567307692
Variance	0.234314453	0.246258966
Observations	312	312
Df	311	311
F	0.951496129	
P(F<=F) One tail	0.330681156	
F Critical one tail	0.829586679	

HO: There is no significant relationship between customer satisfaction and future trends, demographic differences, adaptation rate, technology Innovation.

H1: There is a significant positive relationship between customer satisfaction and future trends, demographic differences, adaptation rate, technology innovation.

P value is less than 0.05 So Reject null hypothesis there is a significant relationship between future trends, demographic differences, adaptation rate, technology innovation and customer satisfaction

Identifying the key technological advancement in fintech that have transformed the way customer interact with banks



Figure 5. 6 Mobile Banking

Apps for mobile banking:

Important Finding: mobile banking applications have completely changed how clients communicate with banks.

by giving users easy access to a variety of financial services while they're on the road, including as bill payment, cash transfers, and account management.

Discussion: According to research, the user-friendly interfaces and anytime, anywhere transaction capabilities of mobile banking apps have raised client happiness and engagement. Consumers like these applications' accessibility and versatility, which have made them a mainstay of modern banking.

Chatbots with Artificial Intelligence (AI):

Key Outcome: By providing automatic, tailored, and round-the-clock customer service, the integration with AI and chatbot in banking has revolutionised client interactions.

Discussion: AI-driven chatbots can respond to consumer questions and offer account details, and even provide guidance on finances. They improve productivity, cut down on wait times, and raise client happiness. AI algorithms may also evaluate client information to provide tailored product suggestions, which enhances the consumer experience even further.

Verification via Biometrics:

Key Finding: By eliminating the need for traditional passwords, biometric authentication techniques like fingerprint and face recognition have improved security and streamlined consumer interactions.

Discussion: Biometric authentication techniques provide a safe and practical means of customers to approve transactions and access their accounts. Customers are happier with banking services because of the biometrics' additional security and simplicity of usage, which has raised their level of confidence.

Blockchain Technology:

Principal Outcome: The introduction of transparent and impenetrable transaction records via blockchain technology has revolutionised consumer interactions.

Discuss: Distributed ledger technology on the blockchain improves transaction security and trust. Customers may lower the risk of fraud by tracking and verifying transactions in real-time. According to research, block chain can boost trust and transparency in financial transactions, which can have a big influence on customer happiness.

Personalized Financial Applications:

Key Finding: AI and data analytics are used by personalised financial applications and robo-advisors to offer investment plans and advise that is specific to each user.

Discussion: Consumers are looking for more individualised financial advice, and these applications provide customised investment possibilities and spending suggestions based on specific financial objectives and risk tolerance. Based on research, clients who make advantage of these services report higher levels of satisfaction with their banking institutions because they receive proactive and individualised help.

Digital wallets and contactless payments:

Principal Finding: By providing a convenient and safe means of making payments for products and services, contactless payment methods and electronic wallets have completely transformed the way consumers conduct transactions.

Talk With the popularity of contactless payment systems and portable wallets such Apple Pay and Google Pay, consumers can now make fast, safe transactions without using actual cash or credit cards. These technologies are becoming more and more popular because of their speed, ease of use, and extra protection that tokenization offers.



Figure 5. 7 Personalized Finance

Cryptocurrencies with Digital Assets:

Principal Outcome: The advent of cryptocurrencies & digital assets has given consumers new options for storing value and carrying out financial transactions.

Talk Bitcoin and Ethereum are two examples of cryptocurrencies that have acquired popularity as mediums of trade as both investment assets. Although they are still being adopted by traditional banks, they have given customers additional options for investment and diversification. Furthermore, the blockchain technology that powers a lot of cryptocurrencies may be advantageous in terms of safety and transparency.



Figure 5.9 Cryptocurrencies

Findings

Fintech developments have a beneficial effect on customer satisfaction because they allow banks to better understand their customers' demands and boost happiness by aligning their experiences with developing trends. Due to their familiarity with technology, younger customers tend to be more happy, however demographic disparities do have a major effect. Adoption of fintech is associated with increased satisfaction, highlighting the advantages of efficiency and convenience. Blockchain technology and artificial intelligence (AI) advances increase convenience and trust, which raises satisfaction levels. The survey emphasises how crucial P2P payment applications, contactless payments, and customised financial apps are to raising customer happiness and user experiences.

The comprehensive approach of open banking, cryptocurrencies, voice with conversational banking, with customer education initiatives are seen as critical elements impacting consumer happiness. Building trust and satisfaction inside financial apps involves prioritising data protection and security and maintaining clear communication. In the end, trust turns out to be a fundamental component affecting the uptake of fintech as well as general consumer happiness.

Conclusion

The report provides some important new information on how fintech advances and customer happiness are related. First, a strong positive association is seen between increased customer satisfaction and banking experiences that are in line with new fintech trends. Consumers' expectations are rising, and they are more satisfied when their banks stay up to date with the latest fintech developments. Furthermore, the influence of demographic disparities is emphasised, as younger clients report higher levels of happiness because they are more tech-savvy, but elderly clients might reach comparable satisfaction levels with the right help and intuitive user interfaces. The study highlights the need of proactively encouraging fintech adoption among clients, as active adoption of fintech solutions is linked to increased levels of contentment. Fintech technical innovation has also been demonstrated to have a significant influence on customer happiness by improving ease, security, and personalisation. Examples of this include blockchain security and AI-driven chatbots. The utilisation of blockchain technology to establish trust and transparency is deemed crucial for augmenting client happiness. The clear ledger system plays a role in fostering real-time security and openness.

Moreover, innovations that greatly enhance client happiness include digital wallets, contactless payments, biometric authentication techniques, and customised financial applications. It is also acknowledged that open banking, cryptocurrencies, speech & conversational banking, & customer education initiatives are important components in creating happy and satisfied customers. In the end, the study emphasises how crucial trust, education for customers, and open communication are to influence the uptake of fintech as well as overall consumer happiness.

Limitation

Sample Size & Selection: The 300-person customer sample size may have placed restrictions on the study. More robust findings may have been obtained with a bigger sample size. Furthermore, if the customer selection process is not properly controlled, biases may be introduced.

Demographic Representativeness: Although a wide range of demographic groups may not have been included in the study, this might have limited the findings' capacity to be broadly applied.

Survey Bias: The precision of the information gathered may be impacted by inherent biases in the survey, such as responses bias or social attractiveness bias, which are used to collect consumer impressions.

Intersectional Nature: The cross-sectional design of the study, which records a moment in time, could have limitations. Longitudinal data would provide information on how customer involvement and satisfaction change over time.

Self-Reported Data: Self-reported metrics such as customer engagement and satisfaction may not necessarily match real behaviour. Subsequent research endeavours may integrate objective metrics for participation.

Generalisation: Results from a comparison between fintech companies and traditional banks may not be readily transferable to other financial institutions, including credit unions or only available online banks.

Regional Specificity: The results of the study could not be relevant everywhere due to regional influences, particularly in areas with distinct financial ecosystems and consumer behaviour.

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