Determinants of Online Trust: An Exploratory Study of University Students of Uttrakhand

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Abstract: Inferable from the quick improvement of the Internet and data innovation in India, the development of Internet shopping has been really wonderful as of late. But In spite of such phenomenal growth in online shopping in India, a large majority of online shoppers abandon the shopping cart, at a rate of over 70%, which leads to trillions of dollars in lost sales. The principle motivation behind why online customers desert their shopping cart is trust. Thus, the motivation behind this paper is to recognize and create an understanding about different determinants of trust in an online environment. The information for this examination was accumulated utilizing direct overview with the assistance of an organized survey. The investigation included those under graduate and also post graduate students of various universities of Uttrakhand who purchase online. A 350 example outline was picked for cooperation, however just 300 respondents restored the filled poll inside 4 months of discharging. All factors for the survey were distinguished utilizing the writing on internet shopping. The information was investigated utilizing SPSS. The measurable methods of investigation that were utilized for the given examination incorporate Factor Analysis for recognizing the components influencing on the web trust. The results of this study indicate that consumer’s online trust is affected by various factors such as perceived reputation, Perceived security and privacy, Website Design, propensity to trust, brand/website recognition, proficiency and experience in Internet usage. Thus, this study aims to provide useful implications to online marketers related to online trust.

Keywords: Web based business Trust, Online Trust, Trust, Trust Factors, Trust Determinants.

I. INTRODUCTION

Web based shopping in India is picking up ubiquity in relatively every field. As indicated by the factual studying firm Forrester Research, the present size of the Indian electronic business show is $1.6 billion and it is relied on to make to $3 billion of at ordinary interims and might reach $15 billion by 2020, where it is required to contribute 4% of GDP. Today Internet has added estimation to searching for purchasers through imagery, chronicles, virtual endeavors, and progressing input, free home movement and obligation regarding marked down costs. Sharp increment in web utilization alongside expanded pc and broadband infiltration has given another significance to network and client encounter.

The reception of 3G and up and coming 4G innovation, alongside the declining costs of advanced cells, is relied upon to result in an extra increment in web utilization in the nation. Changes on the installment front have achieved the expanding utilization of plastic cash by Indian customers. Installment passages have now been made more secure through numerous levels of confirmation. This has reinforced clients’ trust in doing on the web exchanges. Disregarding such upgrades in web based shopping in India; there are some basic issues that still dishearten purchasers from internet shopping, for example, dread of misrepresentation, absence of standard advancements for the safe installment, security concerns. Still there are larger part of buyers who leave their shopping baskets even in the wake of choosing to make an online buy.

II. SIGNIFICANCE OF TRUST IN ONLINE SHOPPING

When a customer visits a e-commerce website he doesn’t know whether the product related information is accurate or not, whether if he pays online his financial records are protected, whether the product will be delivered on time or not, whether he will be able to exchange or return a product if it do not meet out the customer’s expectations. In such a situation the customer takes his decision purely on the basis of trust. Trust has dependably been a key component in effective advertising whether it is mechanical or customer promoting. Today a portion of the web based business destinations don’t center around building trust as a major aspect of continuous association with their clients. Such sites pursue hard core selling techniques without providing any help to customers in making their buying decisions. Such sites work as mere self-service catalogs. As a result such sites suffer from low customer retention and make mere profits.

For Web trust-based showcasing is the way to progress. Today trust based sites provide adequate help to a customer while shopping from their website. Such websites provide accurate information about not only their own products but about competitors products as well. They provide easy navigation facility which makes shopping experience turn into a pleasure. Such trust based websites have high customer retention rate and thereby increase their market share and profits.

III. RESEARCH OBJECTIVES

1. To provide a review of the accessible examination into the elements influencing the web trust.
2. To identify the factors influencing web trust.
3. To provide Useful Implications to online marketers.

IV. REVIEW OF LITERATURE

Different conceptual as well as empirical studies have identified the trust inducing feature under three different categories: Customer based organization based and website based. Various such past investigations significant to the present subject are audited in the accompanying area:

A. Perceived Reputation

Bojang Ismaila (2017) in his examination explored the factors influencing shopper’s observation about online trust in Russia. He found that apparent security saw protection and saw notoriety have essentially positive impact on online trust. Mei-Jane Chan () inspected the components impacting school undergrad understudy's trust in electronic shopping in Taiwan and found that online store's notoriety is one of the huge elements influencing understudy's trust and hence the web seller in Taiwan ought to underline on enhancing their online notoriety for expanding buyer trust in web based shopping. Thompson S.H. Teo (2005) contemplated the determinants of customer trust in United States, Singapore and china. The outcomes demonstrated that notoriety and framework affirmation of a web merchant and shopper's penchant to trust are emphatically identified with purchaser trust. Chao-Jung Hsu (2008) in his examination distinguished seven factors that significantly affect online trust including notoriety, outsider confirmation, client benefit, penchant to trust, site quality, framework affirmation and brand. Hee-Woong Kim () in his investigation looked at online trust building factors between potential clients and rehash clients. He found that if there should arise an occurrence of both potential clients and rehash clients notoriety alongside halfway involvement with the seller assumes an essential job in looking after trust.

B. Perceived Security

Van der Werff (2018) in his examination found that perceived security and privacy are vital factors influencing online trust. Amber C. Hwang et al. (2007) in his examination analyzed the impacts of apparent security, the and outsider association seals on confiding in convictions. He found that apparent security positively affects buyer's trust in a web merchant. Syed Shah Alam et al. () in his examination basically explored factors that impact shopper's observation about online trust in Malaysia. The investigation found that apparent security/protection significantly affects online brand trust. As per the outcomes, huge numbers of the respondents saw the Internet to be shaky and subsequently they were hesitant to give their own or budgetary data to the online retailers. Charidapa Prompongstorn et al. (2012) in his examination inspected the variables impacting shopper trust in web shopping in Thailand. The examination inferred that customer view of notoriety, security, protection, convenience, helpfulness, and uprightness affect trust in Internet shopping in Thailand.

C. Perceived Ease of Use (PEOU)

Sharifi Fard Saeideh (2017) examined in his study what factors influence online purchase intention of Malaysian buyers with reference to social network websites. Jae Jon Kim (2007) examined what influences Chinese buyers' choices to buy on the web. The reason for the examination was to find out the effect of Chinese customers' trust on their obtaining goal. The investigation recommended that there exists a critical connection among trust and acquiring aim. The investigation additionally reasoned that online business learning saw notoriety, saw chance, and saw convenience are likewise the variables that influence trust. Ardion Beldad et al. (2010) directed a writing audit covering observational investigations on online trust. In view of the survey he found that the improvement of online trust relies upon either customer based factors or electronic or association based.

D. Propensity to Trust

Sathiavany N, Shivany S (2018) conducted an investigation to find out components influencing web trust in case of online banking. Yong-Sheng Chang et al. (2013) led an investigation that first time inspected the diverse elements that influence online trust as well as doubt. The aftereffects of the investigation demonstrated that Propensity to trust and doubt essentially impact customer trust or doubt toward e-sellers since they are dictated by identity factors outside the control of the e-merchant. In this way, e-merchants must target diverse market sections in view of various identity factors. Chao-Jung Hsu (2008) in his examination uncovered that to more readily comprehend purchasers’ evaluation of online trust; it is helpful to discover the key variables seen by Internet clients. The investigation uncovered that online merchants should center around such online trust factors as penchant to trust, notoriety, mark, framework affirmation, site quality, outsider confirmation, and client benefit. Jing Liu (2005) in his examination analyzed the determinants of buyer trust in the United States, Singapore and China. The aftereffects of the examination showed that notoriety and framework affirmation of an Internet seller and purchasers' inclination to trust are decidedly identified with customer trust. In addition buyer’s trademark (inclination to trust) is observed to be determinant of customer trust in the event of all the three nations.

E. Third Party Organization/ Web Seal/Third Party Guarantees

Bauman Antonina (2017) conducted a literature review based on content analysis of 138 research papers related to online consumer trust. Amber C. Hwang et al. (2007) in his examination investigated factors, for example, customers' view of data security, protection, trust, and their acknowledgment of internet business. In particular, he inspected the impacts of hosting a third get-together association/web seal, and furthermore protection and security proclamations on the appropriation conduct of electronic business.
The aftereffects of the examination demonstrated noteworthy connection among trust and security and in addition outsider affirmation. Menno de Jong et al. (2010) led a writing survey covering experimental investigations on online trust. In light of the survey he found that the improvement of online trust relies upon either customer based factors or electronic or association based.

F. Website Design
Farhod P. Karimov et al. () in his examination exhibited an audit of analysis constructed writing with respect to the influencers of introductory confidence in business-to-buyer (B2C) online business. In his examination he arranged trust-actuating site highlights into three classes to be specific visual plan, meaningful gesture outline and substance outline. The consequences of the examination demonstrated that ‘visual plan’ measurements are vital in empowering on the web starting trust.

Radwan M. Al-Dwairi (2013) in his investigation attempted to recognize the variables for confided in web based business sites. The consequences of the examination showed that security and protection highlights are critical elements of the confided in web based business sites. What's more, internet business web architecture additionally assumes an essential job in inspiring e-clients to direct their online exchanges.

V. RESEARCH METHODOLOGY

The Study: This examination is exploratory in nature and attempted to give a comprehension of the components prompting trust towards internet shopping. The investigation is based on mainly primary data used to investigate factors affecting purchaser's online trust and in this way their future buy expectation. Time of the examination was from 10th Sept, 2019 to 30th April; 2019. The investigation included under graduate and also post graduate students of various universities of Uttrakhand.

The Sample: The sample of the present study comprises of 300 respondents from different universities located in different parts of Uttrakhand. Respondents are those students (Under Graduate as well as post graduate) who purchase online.

The Tools for Data Collection: A self organized survey was utilized to gather information. The initial segment of the poll included inquiries regarding demographic profile of respondents, for example, sexual orientation, educational qualification and so on. The second piece of the poll incorporated a self-organized scale that was utilized to gather essential information. The 35 close ended statements of the scale depended on five point Likert scale (Strongly Agree – 5 to Strongly Disagree – 1) and used to gauge ‘factors influencing customer’s online trust. The unwavering quality of the scale was observed utilizing Cronbach's Alpha.

The Tools for Data Analysis: The examination of gathered information was finished by Statistical Package for Social Science (SPSS). They were then subjected to Principal Component Method of Factor Analysis utilizing Varimax Rotation to extract factors.

VI. DATA ANALYSIS

The consequences of the present examination are sifted through as under. In the essential area, the segment profile of the respondents is displayed. The subsequent fragment presents the components influencing on the web trust.

| Variables | Classification of Variables | Frequency | Percentage |
|-----------|-----------------------------|-----------|------------|
| Age Group | 18-25                        | 300       | 100%       |
|           | 26-35                        | 0         | 0%         |
|           | 35 and above                 | 0         | 0%         |
| Gender    | Male                        | 222       | 74%        |
|           | Female                       | 78        | 26%        |
| Marital Status | Married            | 0        | 0%         |
|           | Single                       | 300       | 100%       |
| Educational Qualification | Professional Degree    | 99        | 33%        |
|           | Post Graduation              | 99        | 33%        |
|           | Under Graduation             | 105       | 35%        |
| Average Family Income | Rs20,000 and below | 30        | 10%        |
|           | 20,000-30,000                | 45        | 15%        |
|           | 30,000 -40,000               | 105       | 35%        |
|           | 40,000 and above             | 120       | 40%        |

Source: Primary Data
The table below exhibits the demographic traits associated with the respondents considered for the purpose of this study. Among 300 respondents, there were 222 (74%) were male respondents and 78 (26%) were females. As far as age group is concerned all of our respondents belong to the age group of 18-25. All of our respondents were single. As far as educational qualifications are concerned respondents include both undergraduate as well as post graduate pursuing either professional or non-professional degrees. Majority of the respondents belong to the families having an average income of Rs. 40,000 and above.

6.1 Reliability Coefficient
In order to check the consistency of respondents’ answers to all the close ended statements included in the scale we have used the most popular method which is Cronbach’s Alpha. According to this method, reliabilities less than 0.6 are considered poor; those in the 0.7 range are considered acceptable whereas those above 0.8 are considered good. In this study the alpha value was 0.989 which is very good.

6.2 Factors Affecting Online Trust: Exploratory Factor Analysis
Consumers may have different perceptions towards online trust in relation to online shopping. To investigate respondent’s attitude towards online trust and the Reasons underlying their attitude, they were provided with a list of statements representing the reasons affecting online trust and were requested to mark their agreement or disagreement with each of these statements on a 5 point Likert scale ranging from 1 for strongly Disagree to 5 for Strongly Agree. The resulting responses were factor analyzed. in order to judge the appropriateness of data for factor analysis Bartlett’s test of sphericity and KMO sampling adequacy test was applied. the value of both the tests (p<0.001 and 0.707 indicated that data is appropriate. Principal component Analysis with Varimax rotation was used to analyze data while retaining Eigen values greater than 1 and factor loadings greater than 0.40. Total 35 close ended statements got reduced to six factors using factor analysis. The factor solution indicated that almost 95 percent of the variance was explained by six factors.

| Determinants of Online Trust | Factor Loadings |
|-----------------------------|-----------------|
| ITEM TOTAL(38)              | F1(Website Design) | F2(Brand/Website Recognition) | F3(Security and Privacy) | F4(Propensity to Trust) | F5(Perceived Reputation) | F6(Proficiency in internet usage) |
| Visual Appeal               | 0.978            |
| Simple Language             | 0.913            |
| Quick Information           | 0.907            |
| Eligible Graphics           | 0.906            |
| Layout of Websites          | 0.901            |
| Visual Honesty              | 0.811            |
| Up-to-date Content on Online sites | 0.591       |
| Relevant and Accurate Information | 0.581         |
| Brand Familiarity Larity    | 0.978            |
| Familiarity                 | 0.959            |
| Famous Brands               | 0.925            |
| Brand Quality               | 0.904            |
| Image of Site               | 0.754            |
| Safe Transaction on Online Websites | 0.931        |
|                                |     |
|--------------------------------|-----|
| **Privacy**                    | 0.834 |
| Comfortable in giving personal information. | 0.706 |
| Adequate Security Features     | 0.686 |
| Usual trust unless there is a reason | .701 |
| Tendency to trust is high      | .606 |
| Easy to Trust online sites     | 589  |
| Likely to trust in presence of even improper knowledge | .558 |
| Good Reputation in my eyes     | 0.931 |
| True and Honest information    | 0.931 |
| Websites are trustworthy and honest | 0.909 |
| Positive Internet Experience   | 0.862 |
| Dependable infrastructure      | 0.848 |
| Concern about customer's welfare | 0.811 |
| Good ability to face risks     | 0.736 |
| Websites act in my best interest | 0.657 |
| Site content is Is easy for me to understand. | 0.888 |
| Website Knowledge              | 0.860 |
| Comfortable shopping at online sites | 0.821 |
| Prior Online Shopping Experience | 0.676 |
| Confident in assessing trustworthiness | 0.591 |

Source: Primary Data
Factor 2: Brand/Website Recognition
It consisted of 5 items related to image of website such as familiarity of website, availability of famous brands on website, overall image of website, the quality of brands available on website.

Factor 3: Security and privacy
It consisted of 4 items related to security and privacy of websites such as availability of adequate security features on websites, confidence with which a customer can provide his personal and financial information to websites provided that information will not be disclosed to anyone for any misuse.

Factor 4: Propensity to trust
It consisted of 4 items related to an individual’s tendency to trust e-commerce websites even in absence of proper information and knowledge.

Factor 5: Perceived Reputation
It consisted of 8 items related to overall reputation of e-commerce websites such as Positive Internet Experience, Dependable infrastructure, Concern about customer’s welfare, Good ability to face risks, Websites act in customer’s best interest.

Factor 6: Proficiency in Internet Usage
It consisted of 5 items related to how proficient an individual is in accessing and using internet such as Site content is easy for me to understand, Website Knowledge, Comfortable shopping at online sites, Prior Online Shopping Experience, Confident in assessing trustworthiness.

VII. DISCUSSION
This present investigation gives proof that buyers trust in web based shopping is the aftereffect of particular components. This research in line with previous findings Sathiyavany N, Shivany S (2018), Bojang Ismaila (2017), Bauman Antonina (2017), Teo (2005), Chao-Jung Hsu (2008), Radwan M. Al-Dwairi (2013), Jing Liu (2005), Chandipada Prompongsatorn et al. (2012)) confirmed that consumer’s online trust is affected by various factors such as perceived reputation, Perceived security and privacy, Website Design, propensity to trust etc. However, two new factors have also been identified in present study which are Brand/Website Recognition popularly known as Brand Familiarity which indicates the extent of a person’s familiarity with various online websites one serves and the availability of famous and well known brands on online websites. Second factor which has been identified is Proficiency and experience in Internet usage which describes the level of comfort one feels while undergoing online shopping, how much e-commerce knowledge a person possess etc.

VIII. IMPLICATIONS
The discoveries of this investigation have a few administrative ramifications which are as per the following:
Since Perceived security and privacy has been identified as a major determinant of online trust in the present study also in line with previous studies therefore it is required that online vendors should adopt various measures to make online transactions safe and secure such as third party seal, various assurances etc. Moreover, since website design plays an important role in inducing online trust therefore e-vendors should try to improve “look and feel” of a website, should make use of virtual experiences and artificial intelligence to make their websites user friendly. Lastly, since propensity to trust is found to be a key determinant of online trust in many empirical as well as conceptual studies considered, therefore e-vendors should try to adopt different measures to induce trust based on different personality traits of the customers.

IX. LIMITATIONS AND FUTURE SCOPE OF STUDY
This empirical study suffers from certain demerits. Firstly, the present study focuses on a specific segment of population which is students from university. Thus, further research, replicating the same can be conducted by considering respondents from different age-groups as well as different educational and professional backgrounds. Second, this study does not examine the effect of different types of e-commerce websites on online trust. Therefore, Future research can focus on different kinds of online sites to compare factors affecting online trust. Moreover, online trust is a continuous evolving concept which keeps on changing with consumers online purchase experiences as well as with time. Therefore, considering the same a longitudinal study can be conducted to find the effect of time on online trust determinants.

X. CONCLUSION
In this way, we can say the present investigation uncovers the significant job of trust predecessors in online shopping. A basic assessment of driving looks into in field just as an observational investigation led on college understudies presumes that measurements in particular Security and Privacy, saw notoriety, affinity to trust, web composition, Brand/Website acknowledgment, capability and involvement with web utilization have been set up as solid determinants of trust in web based shopping. Despite the fact that different sorts of security and validation measures have been received by sites to make web based shopping sheltered and secure yet at the same time security and protection has developed as one of the central point impacting web trust. In addition, the character attributes of customers likewise influence the trust towards web based shopping. A person's character decides how likely he/she is to believe online sites effectively even without any proof or confirmation. Moreover a person's past web based shopping experience and his ability in web use additionally influence his degree of trust towards internet shopping. The more proficient an individual is in internet usage, the more likely he will trust online websites.
Thus, the online marketers who wish to leverage the growth of online shopping, should stress upon the above studied dimensions and plan their strategies to induce trust in online customers.

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