

Determinants of E- Commerce Customer Satisfaction, Trust and Loyalty in Select Districts of Andhra Pradesh

N. Venkata Ramana

Associate Professor,

Department of Management Studies,

Madanapalle Institute of Technology and Sciences (Autonomous),

Madanapalle, Chittoor District, AP – 517325.

Abstract

For the long-term growth of many e - commerce businesses satisfy their customers and win loyalty and trust of customers. The past researches had shown that e-retailers experience not sufficient to maintain customer loyalty notwithstanding the current rapid growth in Business to Customer. Many studies have empirically studied e – commerce customer satisfaction, loyalty and trust in different countries. However, empirical research on these key constructs of e-commerce in developing area of Andhra Pradesh. The main objective of this paper is to identify the factors that influence trust, loyalty and satisfied with B2C e – commerce. A survey was conducted among B2C e-commerce customers in the selected districts of Andhra Pradesh. The findings of this study B2C e-commerce customer loyalty strongly influenced by customer satisfaction in selected districts of Andhra Pradesh whereas weakly influenced by customer trust.

Keywords: B2C e-commerce, e-retailer, customer trust, customer satisfaction, customer loyalty.

Introduction

Due to the globalization, liberalization and privatization, the internet and web development have been the most exciting developments in the field of information and communications technology in recent years. With increasing internet access, the use of e-commerce services, mostly e-payments and e-filings, by the population is booming globally and locally in India.

E-commerce in India is still in nascent stage, but even the most-pessimistic projections indicate a future boom. It is believed that low cost of personal computers, a growing installed base for Internet use, and an increasingly competitive Internet Service Provider (ISP) market will help fuel e-commerce growth in World's second most populous nation.

Indian middle class segment is nearly bigger than the entire U.S. consumer base. This makes India a real attractive market for e-commerce particularly e-payments and e-filings. To make a successful e-commerce transaction both the payment and delivery services must be made

efficient. There has been a rise in the number of companies' taking up e-commerce in the recent past.

Major Indian portal sites have also shifted towards e-commerce instead of depending on advertising revenue. Many sites are now selling a diverse range of products and services from flowers, greeting cards, and movie tickets to groceries, electronic gadgets, and computers. With stock exchanges coming online the time for true e-commerce in India has finally arrived. On the negative side there are many challenges faced by e-commerce sites in India. The relatively small credit card population and lack of uniform credit agencies create a variety of payment challenges unknown in India.

Delivery of goods to consumer by couriers and postal services is not very reliable in smaller cities, towns and rural areas. However, many Indian Banks have put the Internet banking facilities. The speed post and courier system has also improved tremendously in recent years. Modern computer technology like secured socket layer (SSL) helps to protect against payment fraud, and to share information with suppliers and business partners. With further improvement in payment and delivery system it is expected that India will soon become a major player in the e-commerce market.

The Government of India has defined its Electronic Governance Strategic Plan, which provides the roadmap of Electronic Governance implementation during 2003-2007. The plan seeks to create the right governance and institutional mechanisms, to set up the core infrastructure and policies, and to implement a number of Mission Mode Projects (MMPs) with the goal of creating a citizen- and business-centric environment for governance (Government of India, National E-Governance Plan,).

Literature Review

This section examines existing literature on the relevant theories which provide the grounding for the proposed research model and also provides a detailed discussion about hypothesized relationships between e-commerce customer satisfaction, trust, and loyalty and their antecedents to build a conceptual framework.

The Theory of Reasoned Action (Fishbein & Ajzen, 1975) explains the relationship between attitudes, intentions and behaviors. The TRA (Theory of Reasoned Action) model posits that human beings make rational decisions based on the information available to them, and the best immediate determinant of a person's behavior is intent which is the cognitive representation of readiness to perform a given behavior (Ajzen & Fishbein, 1980). Accordingly, information quality provided by the B2C e-commerce website contents can greatly affect the intention to purchase. Also, if the information provided by the website is reliable and accurate, then this will increase online customer satisfaction and trust which will lead the customer to make the initial purchase. Thus customer satisfaction and trust in e-commerce websites can affect consumer retention or customer loyalty positively.

According to the TRA model, an individual's belief towards a behavior is an immediate determinant of his or her intention to perform a behavior (Fishbein & Ajzen, 1975). Mayer, Davis, and Schoorman [1995] further extended the TRA theory to support the modeling of customer trust. In addition, based on the Technology Acceptance Model (TAM) [Davis 1989] and TRA theory, McKnight, Choudhury and Kacmar [2002] proposed a model of e-commerce customer trust. According to TAM, the intention to accept or use a new technology is determined by its perceived usefulness and perceived ease of use. In their model, McKnight et al. posits that trusting beliefs (perceptions of specific vendor website attributes) leads to trusting intentions, which in turn influences trust-related behaviors.

Expectation-Confirmation Theory (ECT) was proposed by Oliver [1980] to study consumer satisfaction and repurchase behavior. The ECT theory states that consumers firstly form an initial expectation prior to purchase, and then build perceptions about the performance of the consumed product/service after a period of initial consumption. Next, consumers will decide on their level of satisfaction based on the extent to which their expectation is confirmed through comparing the actual performance of the product/service against their initial expectation of the performance. Consequently, satisfied consumers will form repurchasing intentions. Similarly, when customers have confirmed their expectation that an e-commerce website is trustworthy, they will be more motivated to repurchase from the same e-commerce website.

Research Methodology

This section discusses the conceptual research framework and related hypotheses based on the research questions and literature review. The research model hypotheses are listed below:

Various research models have been used by previous researchers (Davis, 1989; McKnight, Choudhury, & Kacmar, 2002; Fishbein & Ajzen, 1975; Oliver & Richard, 1980; Mustafa I Eid, 2011) applied to embed the modeling of the relationship among e-customer satisfaction, e-customer trust and e-customer loyalty. On the basis of their results we formulated the following hypotheses.

H₁: An increase in perceived user interface quality (UIQ) will have a direct positive effect on customer satisfaction (ECS).

H₂: An increase in perceived user interface quality (UIQ) will have a direct positive effect on customer trust (ECT).

H₃: An increase in perceived product/service information quality (IQ) will have a direct positive effect on customer satisfaction (ECS) behavior.

H₄: An increase in perceived product/service information quality (IQ) will have a direct positive effect on customer trust (ECT) behavior.

H5: As the perception of security risk (PSR) decreases, customer satisfaction (ECS) is expected to increase.

H6: As the perception of security risk (PSR) decreases, customer trust (ECT) is expected to increase.

H7: As the perception of privacy risk (PPR) decreases, customer satisfaction (ECS) is expected to increase.

H8: As the perception of privacy risk (PPR) decreases, customer trust (ECT) is expected to increase.

H9: An increase in customer satisfaction (ECS) will have a direct positive effect on customer loyalty (ECL).

H10: An increase in customer trust (ECT) will have a direct positive effect on customer loyalty (ECL).

The following research model was adopted from Mustafa I Eid (2011).

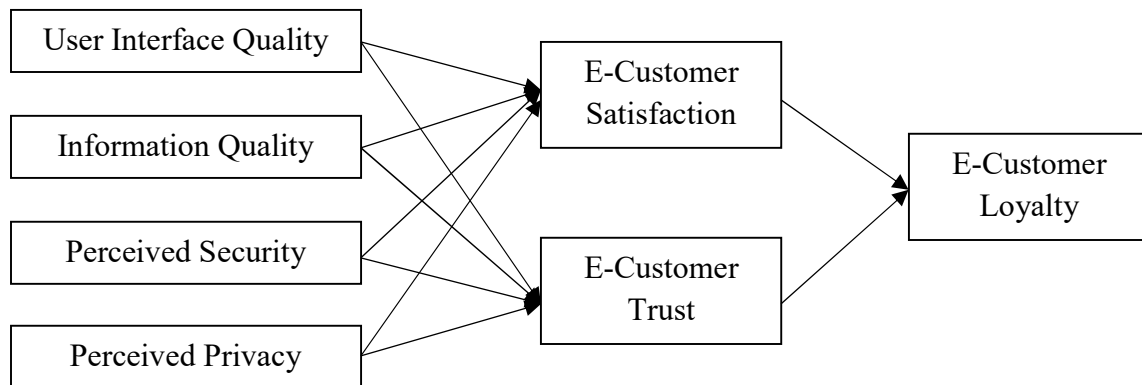


Figure 1: Research Model proposed by Mustafa I Eid (2011)

Data Sources

Both primary data and secondary data were tapped to gather, understand and analyze the e-customer satisfaction, e-customer trust and e-customer loyalty in selected districts of Andhra Pradesh. A structured questionnaire adapted and taken into account which was proposed by Mustafa I Eid (2011) to collect primary data from the respondents. The secondary data has been gathered from various journals, business magazines and various websites pertaining to previous research studies and empirical investigations.

Sample Design

The convenience sampling method is used as a research technique, it helps to obtain right information from respondent. The research instrument is attached in Annexure I for itemized statements and scales. Andhra Pradesh e-consumer experiences with B2C e-commerce services were measured using a set of thirty one proposed scale items of Mustafa I Eid (2011) with slight modifications. All of the scale items were measured using a five-point Likert-type category-scaling format (1 = Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, and 5 = Strongly Agree) to measure five constructs; UIQ, IQ, ECS, ECT, and ECL. Whereas another five-point Likert-type scale (1 = Not Important at all, 2 = Not very important, 3 = Quite Important, 4 = Very Important, and 5 = Essential) was used to measure the PSR and PP constructs.

Universe and Geographical Area

To analyze the e-customer satisfaction, e-customer trust and e-customer loyalty, we selected Vijayawada, Vizag, Kadapa, Chittoor, SPS Nellore and Prakasam districts of Andhra Pradesh and these seven selected districts formed the universe and geographical area of the study respectively.

Sample Size

The sample size of this research study was 240 (forty respondents from each selected district).

Tools of Analysis

The major tools used for the analysis of the data were Simple Percentages, Ordinary Least Squares Regression Analysis and Regression Analysis.

Reliability Analysis

Cronbach's α (alpha) is a statistic. It is commonly used as a measure of the internal consistency or reliability of a psychometric test score for a sample of examinees. It was first named as alpha by Lee Cronbach in 1951, as he had intended to continue with further coefficients. The measure can be viewed as an extension of the Kuder-Richardson Formula 20 (KR-20), which is the measure's equivalent for dichotomous items. Before assessing the service quality it was necessary to establish the reliability of the instrument for data collection. Concerning the reliability of the instrument for the internal service quality scores, the Cronbach's alpha resulted in the values indicated in Table 1. These results are similar as those found in the literature, e.g. 0.920 by Parasuraman et al. (1988) and 0.900 by Croning and Taylor (1992). Therefore, the results of total scale for the developed instrument could be considered reliable. In this study all the dimensions reflected acceptable reliability: the alpha values of all the measure were greater than 0.7, the cut-off recommended by Nunnally (1978) for the basic research.

| S. No. | Service Quality Dimension | Cronbach's α | Number of Items |
|----------------|-----------------------------------|---------------------|-----------------|
| 1 | E-commerce User Interface Quality | 0.940 | 4 |
| 2 | E-commerce Information Quality | 0.957 | 5 |
| 3 | Perceived Security Risk | 0.949 | 4 |
| 4 | Perceived Privacy | 0.971 | 5 |
| 5 | E-commerce Customer Trust | 0.955 | 4 |
| 6 | E-commerce Customer Satisfaction | 0.964 | 5 |
| 7 | E-commerce Customer Loyalty | 0.941 | 4 |
| Overall | | 0.993 | 31 |

| Demographics | | Frequency | Percentage |
|-------------------------|-----------------------------|-----------|------------|
| Gender | Male | 147 | 61.3 |
| | Female | 93 | 38.8 |
| Age Group | Below 20 years | 70 | 29.2 |
| | 20-30 years | 92 | 38.3 |
| | 30-40 years | 64 | 26.7 |
| | Above 40 years | 14 | 5.8 |
| Education | School Education | 86 | 35.8 |
| | College Education and above | 154 | 64.2 |
| Occupation | Employee | 89 | 37.1 |
| | Business | 75 | 31.3 |
| | Student | 58 | 24.2 |
| | Housewife | 11 | 4.6 |
| | Others | 7 | 2.9 |
| Monthly Income (in Rs.) | Below 10000 | 10 | 4.2 |
| | 10000 – 15000 | 39 | 16.3 |
| | 15000 – 20000 | 53 | 22.1 |
| | 20000 – 25000 | 74 | 30.8 |
| | Above 25000 | 64 | 26.7 |

| ANOVA ^b | | | | | | |
|--------------------------------|------------|----------------|-----|-------------|----------|-------------------|
| Model | | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 298.054 | 1 | 298.054 | 1479.656 | .000 ^a |
| | Residual | 47.941 | 238 | .201 | | |
| | Total | 345.996 | 239 | | | |
| a. Predictors: (Constant), UIQ | | | | | | |
| b. Dependent Variable: ECS | | | | | | |

An increased in perceived user interface quality (UIQ) will be direct positive effect on customer satisfaction (ECS) due to significance is less than 0.05 percent level. So, the hypothesis is accepted.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .080 | .099 | | .814 | .416 |
| | UIQ | .970 | .025 | .928 | 38.466 | .000 |

a. Dependent Variable: ECS

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 310.385 | 1 | 310.385 | 2074.433 | .000 ^a |
| | Residual | 35.611 | 238 | .150 | | |
| | Total | 345.996 | 239 | | | |

a. Predictors: (Constant), IQ

b. Dependent Variable: ECS

Calculated “F” value is more than table value at 5 percent level of significance, hence hypothesis is accepted i.e., An increase in perceived product/service information quality (IQ) will have a direct positive effect on customer satisfaction (ECS) behavior.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .054 | .084 | | .643 | .521 |
| | IQ | .975 | .021 | .947 | 45.546 | .000 |

a. Dependent Variable: ECS

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 322.205 | 1 | 322.205 | 3223.339 | .000 ^a |
| | Residual | 23.791 | 238 | .100 | | |
| | Total | 345.996 | 239 | | | |

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .054 | .084 | | .643 | .521 |
| | IQ | .975 | .021 | .947 | 45.546 | .000 |

a. Predictors: (Constant), PSR

b. Dependent Variable: ECS

Calculated “F” value is more than table value at 5 percent level of significance. So, the perception of security risk (PSR) decreases due to customer satisfaction (ECS) is expected to increase.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .080 | .067 | | 1.199 | .232 |
| | PSR | .976 | .017 | .965 | 56.774 | .000 |

a. Dependent Variable: ECS

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 325.990 | 1 | 325.990 | 3878.226 | .000 ^a |
| | Residual | 20.005 | 238 | .084 | | |
| | Total | 345.996 | 239 | | | |

a. Predictors: (Constant), PPR

b. Dependent Variable: ECS

The perception of privacy risk (PPR) decreases because of customer satisfaction (ECS) is expected to increase. It is accepted, as significance level is less than 0.05 percent.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .136 | .060 | | 2.264 | .024 |
| | PP | .960 | .015 | .971 | 62.275 | .000 |

a. Dependent Variable: ECS

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 304.365 | 1 | 304.365 | 1777.412 | .000 ^a |
| | Residual | 40.755 | 238 | .171 | | |
| | Total | 345.120 | 239 | | | |

a. Predictors: (Constant), UIQ

b. Dependent Variable: ECT

Calculated “F” value is more than table value at 5 percent level of significance. Therefore, increase in perceived user interface quality (UIQ) will have a direct positive effect on customer trust (ECT).

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .038 | .091 | | .417 | .677 |
| | UIQ | .981 | .023 | .939 | 42.159 | .000 |

a. Dependent Variable: ET

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 314.051 | 1 | 314.051 | 2405.758 | .000 ^a |
| | Residual | 31.069 | 238 | .131 | | |
| | Total | 345.120 | 239 | | | |

a. Predictors: (Constant), IQ

b. Dependent Variable: ECT

An increase in perceived product/service information quality (IQ) will have a direct positive effect on customer trust (ECT) behavior. This hypothesis is accepted since significance level at 5 percent level.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .028 | .078 | | .361 | .719 |
| | IQ | .980 | .020 | .954 | 49.049 | .000 |

a. Dependent Variable: ECT

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 313.504 | 1 | 313.504 | 2360.022 | .000 ^a |
| | Residual | 31.616 | 238 | .133 | | |
| | Total | 345.120 | 239 | | | |

a. Predictors: (Constant), PSR

b. Dependent Variable: ECT

As the perception of security risk (PSR) decreases, customer trust (ECT) is expected to increase. It is accepted because calculated “F” value is more than the table value at 5 percent level of significance.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .125 | .077 | | 1.623 | .106 |
| | PSR | .963 | .020 | .953 | 48.580 | .000 |

a. Dependent Variable: ECT

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 316.187 | 1 | 316.187 | 2600.920 | .000 ^a |
| | Residual | 28.933 | 238 | .122 | | |
| | Total | 345.120 | 239 | | | |

a. Predictors: (Constant), PPR

b. Dependent Variable: ECT

As the perception of privacy risk (PPR) decreases due to customer trust (ECT) is expected to increase. It is accepted since significant level is 0 at 5 percent level.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .186 | .072 | | 2.571 | .011 |
| | PP | .946 | .019 | .957 | 50.999 | .000 |

a. Dependent Variable: ECT

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 281.158 | 1 | 281.158 | 1457.408 | .000 ^a |
| | Residual | 45.914 | 238 | .193 | | |
| | Total | 327.073 | 239 | | | |

a. Predictors: (Constant), ECS

b. Dependent Variable: ECL

“F” value is more than the table value at 5 percent level of significance. Hence, the hypothesis is accepted i.e., an increase in customer satisfaction (ECS) will have a direct positive effect on customer loyalty (ECL).

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .339 | .092 | | 3.687 | .000 |
| | ECS | .901 | .024 | .927 | 38.176 | .000 |

a. Dependent Variable: ECL

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|----------|-------------------|
| 1 | Regression | 292.965 | 1 | 292.965 | 2044.286 | .000 ^a |
| | Residual | 34.108 | 238 | .143 | | |
| | Total | 327.073 | 239 | | | |

a. Predictors: (Constant), ECT

b. Dependent Variable: ECL

An increase in customer trust (ECT) will have a direct positive effect on customer loyalty (ECL). It is agreed due to significance level is 0 at 5 percent level.

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | .269 | .079 | | 3.396 | .001 |
| | ET | .921 | .020 | .946 | 45.214 | .000 |

a. Dependent Variable: ECL

Results of the ANOVA

| Hypotheses | Independent variable | Dependent variable | F value | Hypotheses test result |
|------------|----------------------|--------------------|----------|------------------------|
| H1 | UIQ | ECS | 1479.656 | Significant |
| H2 | IQ | ECS | 2074.433 | Significant |
| H3 | PSR | ECS | 3223.339 | Significant |
| H4 | PPR | ECS | 3878.226 | Significant |
| H5 | UIQ | ECT | 1777.412 | Significant |
| H6 | IQ | ECT | 2405.758 | Significant |
| H7 | PSR | ECT | 2360.022 | Significant |
| H8 | PPR | ECT | 2600.920 | Significant |
| H9 | ECS | ECL | 1457.408 | Significant |
| H10 | ECT | ECL | 2044.286 | Significant |

| Correlations | | | | | | | | |
|--------------|---------------------|--------|--------|--------|--------|-----|-----|-----|
| | | UIQ | IQ | PSR | PPR | ECS | ECT | ECL |
| UIQ | Pearson Correlation | 1 | | | | | | |
| | Sig. (2-tailed) | | | | | | | |
| | N | 240 | | | | | | |
| IQ | Pearson Correlation | .939** | 1 | | | | | |
| | Sig. (2-tailed) | .000 | | | | | | |
| | N | 240 | 240 | | | | | |
| PSR | Pearson Correlation | .934** | .958** | 1 | | | | |
| | Sig. (2-tailed) | .000 | .000 | | | | | |
| | N | 240 | 240 | 240 | | | | |
| PPR | Pearson Correlation | .938** | .951** | .963** | 1 | | | |
| | Sig. (2-tailed) | .000 | .000 | .000 | | | | |
| | N | 240 | 240 | 240 | 240 | | | |
| ECS | Pearson Correlation | .928** | .947** | .965** | .971** | 1 | | |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 | | | |

| | | | | | | | | |
|--|---------------------|--------|--------|--------|--------|--------|--------|-----|
| | N | 240 | 240 | 240 | 240 | 240 | | |
| ECT | Pearson Correlation | .939** | .954** | .953** | .957** | .949** | 1 | |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 | .000 | | |
| | N | 240 | 240 | 240 | 240 | 240 | 240 | |
| ECL | Pearson Correlation | .908** | .940** | .931** | .929** | .927** | .946** | 1 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 | .000 | .000 | |
| | N | 240 | 240 | 240 | 240 | 240 | 240 | 240 |
| **. Correlation is significant at the 0.01 level (2-tailed). | | | | | | | | |

The above table refers that correlation among customer satisfaction, customer loyalty and customer trust. Customer satisfaction, loyalty and trust strongly correlated with user interface quality, information quality, perception security risk and perception privacy risk is significant at the 0.01.

Conclusion

This paper attempted to examine the determinants of E- Commerce customers Determinants of E-Customer Satisfaction, Trust, and Loyalty in Select Districts of Andhra Pradesh. The recognized important factors are: interface quality, service information quality, security risk perception and privacy perception. Interface quality and service information quality of E- Customers websites were found to have a significant positive impact on customer satisfaction. Interface quality, service information quality, risk and privacy perception are strongly related to customer trust, loyalty and satisfaction of e commerce customers. The study investigated customer satisfaction and trust play a important role on consumer loyalty in B2C e-commerce services. E-commerce customer satisfaction was found to significantly influence customer loyalty and to play the role of a partial mediator between each of the user interface quality and information quality constructs and customer loyalty.

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