Themed Section: Science and Technology

A Study on Adopted Online Payment System for Rural Area Merchants In Dharmapuri Region

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ABSTRACT

Online payment system is use for rural area merchants. They are all pushed to after demonetization using online payment system. They had no awareness and knowledge about using online payment. Now a days they are routinely adopted by using online payment system. This study is to know the level of awareness and knowledge among the online payment system using to rural area merchants in Dharmapuri region. A pilot study was conducted by the data was collected through questionnaire and site visitation. The primary data was collected by through questionnaires were given to the rural area merchants those are using all using online payment system in our shops. The collected data was analyzed using the chi square test. It was found that the demographic variables of using online payment system.

Keywords: Credit Card, Debit Card, Smart Card, E-Money, Electronic Fund transfer, Mobile Banking.

I. INTRODUCTION

E-Commerce is the procurement and vending of things and facilities, or the spreading of moneys or records, over an online network, chiefly the internet. These business dealings occur either as business to business (b2b), business to consumer (b2c), consumer to consumer (c2c) and consumer to business (c2b). The terms e-commerce are regularly used interchangeably. E-Business is the behavior of business procedures on the internet. These online business procedures include procurement and vending crops, provides and facilities; servicing consumers; processing payment; handling control; manufacture cooperating with business collaborators: distribution knowledge; passing automated worker facilities; employing and more. Demonetization is an essential monetarist step in which a money unit's status as a legal tender is confirmed unacceptable. This is frequently done whenever there is a change of national money, exchanging the old unit with a new one. Such a step, for example India, Europe and Singapore.

II. REVIEW OF LITERATURE

1. (Neha Shorff, M. B, 2015) "The world is altering at an astounding amount and technology is measured to be the key driver for these modifications around us. An examination of knowledge and its uses show

- that it has allowed in almost every feature of our life. Many movements are managed electronically due to the receiving of information technology (IT) at home as well as at work place. Slowly but progressively, the Indian purchaser is shifting towards the online banking. The ATM and the Net transactions are becoming trendy. But the consumers clear on one thing that he wants online-banking to be humble and the banking sector is similar its steps to the march of knowledge. E-banking or Online banking is a basic term for the distribution of banking facilities and goods through the electronic channels such as the telephone, the internet, the cell phone etc. The government of India passed the IT Act, 2000, which delivers legal appreciation to online transactions and other means of electronic commerce. The RBI has been organizing to promotion them self as controller and controller of the technologically directed financial system.
- 2. (Babatunde Ojetunde*)"A payment system in a disaster area is essential for people to buy necessities such as groceries, clothing, and medical supplies. However, existing payment systems require the needed communication infrastructures (like wired networks and cellular networks) to enable transactions, so that these systems cannot be relied on in disaster areas, where these

- communication infrastructures may be destroyed. In this paper, we propose a mobile payment system, adopting infrastructure less mobile adhoc networks (MANETs), which allow users to shop in disaster providing while secure transactions. Specifically, we propose an endorsement-based scheme to guarantee each transaction and a scheme provide monitoring based on location information, and thus achieve transaction validity and reliability. Our mobile payment system can also prevent collusion between two parties and reset and recover attacks by any user. Security is ensured by using location-based mutual monitoring by nearby users, avoiding thereby double spending in the system".
- 3. (Tero Pikkarainen, 2004) Advances in online banking technology have created novel ways of using daily banking affairs, especially via the online banking channel. The acceptance of online banking services has been rapid in many parts of the world, and in the leading e-banking countries the number of e-banking contracts has exceeded 50 percent. Inspects online banking approval in the light of the outdated technology acceptance model, which is leveraged into the online environment. On the general of a focus group meeting with banking specialists, TAM literature and online banking studies, we develop a model indicating online banking getting among private banking consumers in Finland. The model was tested with a survey sample (n¹/₄268). The findings of the study signpost that apparent usefulness and information on online banking on the Web site were the main factors influencing online-banking receiving.
- 4. (Liang, 2014) The availability of social media and 4G Mobile Internet services boosts ecommerce markets. The online payment systems are an integral part of e-commerce. It becomes the growing need for online shopping and transaction to use secure and minimum cost third-party payment systems. In this paper, we present an online purchase system of BulaPay that is capable of integrating common ecommerce frameworks and shopping cart systems. Using a set of Web services and simple HTML as its interfaces, BulaPay supports finished payment transactions for a business process in a worldwide way. BulaPay not only enables consumers and shop owners to carry out their daily business on the Internet, but also provides them secure, flexible, reliable, and efficient services. This paper analyzed an overview of the BulaPay system. The

- comparisons of our system to the existing third party payment systems are given.
- (Roland Rieke*†, Fraud Detection in Mobile Payments Utilizing Process Behavior Analysis, 2013) Generally, fraud risk implies any intentional dishonesty made for financial gain. In this paper, we consider this risk in the field of services which support transactions with electronic money. Specifically, we apply a tool for prognostic security analysis at runtime which observes process behavior with respect to transactions within a money transfer service and tries to match it with expected behavior given by a process model. We evaluate the applicability of the proposed approach and provide measurements on computational and recognition performance of the tool – Predictive Security Analyzer - produced using real operational and simulated logs. The goal of the experiments is to detect misuse patterns reflecting a given money laundering scheme in synthetic process behavior based on properties captured from real world transaction events.

III. OBJECTIVES OF THE STUDY

- To know about merchant awareness and knowledge about online payment system.
- To Factors influencing the merchants for the use of online payment system.

IV. HYPOTHESES SETTING:

4.1 Hypothesis 1

- **H0** (null hypothesis): there is no significant association between the nature of business and gender.
- **H1** (alternative hypothesis): there is significant association between the nature of business and gender.

4.2 Hypothesis 2

- **H0** (null hypothesis): there is no significant association between the age and the business type.
- **H1** (alternative hypothesis): there is significant association between the age and the business type.

4.3 Hypothesis 3

• **H0** (null hypothesis): there is no significant association between the age and income level.

• **H1** (alternative hypothesis): there is significant association between the age and income level.

4.4 Hypothesis 4

- **H0** (null hypothesis): there is no significant association between the business type and income level.
- **H1** (alternative hypothesis): there is significant association between the business type and income level.

4.5 Hypothesis 5

- **H0** (null hypothesis): there is no significant association between the education qualification and business type.
- **H1** (alternative hypothesis): there is significant association between the education qualification and business type.

4.6 Hypothesis 6

- **H0** (null hypothesis): there is no significant association between the education qualification and income level.
- **H1** (alternative hypothesis): there is significant association between the education qualification and income level

V. SCOPE OF THE STUDY:

This study will be useful in knowing the level of adopted of rural area merchant and thereby helps in improving the online payment system.

VI. RESEARCH METHODOLGY

6.1 Research Design: Descriptive study

6.2 Data collection:

Primary data

The primary data was collected by through the structured questionnaire from the respondent of rural area merchants.

Secondary data

The secondary data was collected by articles, journals, funded projects and books.

6.3 Methods of data collection

The data was collected through questionnaire and site visitation. The questionnaires were given to the rural area merchants using online payment system in our shops.

6.4 Questionnaire design

Scaling technique – Likert type scale.

Questionnaire structured – Structured question (open ended and close ended).

6.5 Area of the study

Rural area merchant who are all using online payment system in Dharmapuri region.

6.6 Sampling design

The sample was collected by using the non-probability technique (convenient sampling method). The sample size taken was 30 for conducting the pilot study from the rural area merchant

6.7 Tool used

For the purpose of analysis and interpretation, the data collected from the questionnaires were taken into consideration and analyzed using chi-square test.

VII. RESULT AND DISCUSSION

7.1 Hypothesis 1

- **H0** (null hypothesis): there is no significant association between the nature of business and gender.
- **H1** (alternative hypothesis): there is significant association between the nature of business and gender.

Business nature * gender Cross tabulation

| | | | gen | der | Total |
|-----------------|----------------|----------------|------|--------|-------|
| | | | male | female | |
| | | Count | 9 | 5 | 14 |
| | retailer | Expected Count | 10.7 | 3.3 | 14.0 |
| | \A/bala sallas | Count | 6 | 2 | 8 |
| | Whole seller | Expected Count | 6.1 | 1.9 | 8.0 |
| Business nature | dealer | Count | 5 | 0 | 5 |
| | dealer | Expected Count | 3.8 | 1.2 | 5.0 |
| | | Count | 3 | 0 | 3 |
| | others | Expected Count | 2.3 | .7 | 3.0 |
| Total | | Count | 23 | 7 | 30 |
| Total | | Expected Count | 23.0 | 7.0 | 30.0 |

Chi-Square Tests

| | Value | df | Asymp. | Mont | e Carlo Sig. | (2-sided) | Mont | e Carlo Sig. | (1-sided) |
|---------------------|--------|----|----------|-------|--------------|-----------|-------|--------------|-----------|
| | | | Sig. (2- | Sig. | 95% Co | nfidence | Sig. | 95% Co | nfidence |
| | | | sided) | | Inte | rval | | Inte | rval |
| | | | | | Lower | Upper | | Lower | Upper |
| | | | | | Bound | Bound | | Bound | Bound |
| Pearson Chi-Square | 9.575a | 12 | .653 | .767b | .615 | .918 | | | |
| Likelihood Ratio | 10.603 | 12 | .563 | .800b | .657 | .943 | | | |
| Fisher's Exact Test | 10.194 | | | .833b | .700 | .967 | | | |
| Linear-by-Linear | .027° | | .870 | .8336 | .700 | .967 | .367 | .194 | 500 |
| Association | .027 | ' | .870 | .833 | .700 | .967 | .3670 | .194 | .539 |
| N of Valid Cases | 30 | | | | | | | | |

- a. 20 cells (100.0%) have expected count less than 5. The minimum expected count is .07.
- b. Based on 30 sampled tables with starting seed 624387341.
- c. The standardized statistic is -. 164.

Table 2: Chi-square test for Hypothesis 2

Calculated value = 9.575, Asymptotic significance value = .653

Asymptotic significance value is greater than 0.05.

Hence H0 is accepted and H1 is rejected.

Therefore there is no significant association between the age and the business type.

7.3 Hypothesis 3

- **H0** (null hypothesis): there is no significant association between the age and income level.
- **H1** (alternative hypothesis): there is significant association between the age and income level.

age * income Cross tabulation

| | | | | | income | | | Total |
|-------|-------|----------------|-------|------------|-------------|--------------|--------|-------|
| | | | <5000 | 5001-10000 | 10001-15000 | 15001-25000. | >25000 | |
| | .05 | Count | 2 | 1 | 2 | 0 | 0 | 5 |
| | <25 | Expected Count | 1.5 | 1.2 | 1.3 | .5 | .5 | 5.0 |
| | 05.05 | Count | 3 | 3 | 4 | 1 | 1 | 12 |
| | 25-35 | Expected Count | 3.6 | 2.8 | 3.2 | 1.2 | 1.2 | 12.0 |
| | | Count | 2 | 3 | 2 | 1 | 2 | 10 |
| age | 36-45 | Expected Count | 3.0 | 2.3 | 2.7 | 1.0 | 1.0 | 10.0 |
| | | Count | 0 | 0 | 0 | 1 | 0 | 1 |
| | 46-55 | Expected Count | .3 | .2 | .3 | .1 | .1 | 1.0 |
| | | Count | 2 | 0 | 0 | 0 | 0 | 2 |
| | >55 | Expected Count | .6 | .5 | .5 | .2 | .2 | 2.0 |
| | | Count | 9 | 7 | 8 | 3 | 3 | 30 |
| Total | | Expected Count | 9.0 | 7.0 | 8.0 | 3.0 | 3.0 | 30.0 |

Table 3: Chi-square test for Hypothesis 3

Chi-Square Tests

| | Value | df | Asymp. Sig. | Mon | te Carlo Sig. (| (2-sided) | Mon | te Carlo Sig. | (1-sided) |
|---------------------------------|---------|----|-------------|--------|-----------------|---------------|-------|---------------|---------------|
| | | | (2-sided) | Sig. | 95% Confide | ence Interval | Sig. | 95% Confide | ence Interval |
| | | | | | Lower | Upper | | Lower | Upper |
| | | | | | Bound | Bound | | Bound | Bound |
| Pearson Chi-Square | 17.262a | 16 | .369 | .333b | .165 | .502 | | | |
| Likelihood Ratio | 13.769 | 16 | .616 | .833b | .700 | .967 | | | |
| Fisher's Exact Test | 12.749 | | | .867b | .745 | .988 | | | |
| Linear-by-Linear Association | .000≎ | 1 | .993 | 1.000b | .905 | 1.000 | .500b | .321 | .679 |
| N of Valid Cases | 30 | | | | | | | | |

- a. 25 cells (100.0%) have expected count less than 5. The minimum expected count is .10.
- b. Based on 30 sampled tables with starting seed 957002199.
- c. The standardized statistic is -.009.

Calculated value = 17.262, Asymptotic significance value = .369

Asymptotic significance value is greater than 0.05.

Hence H0 is accepted and H1 is rejected.

Therefore there is no significant association between the age and income level.

7.4 Hypothesis 4

- **H0** (null hypothesis): there is no significant association between the business type and income level
- **H1** (alternative hypothesis): there is significant association between the business type and income level.

Business type * income Cross tabulation

| | | | | | income | | | Total |
|----------|---------------|-------------------|-------|----------------|-----------------|------------------|--------|-------|
| | | | <5000 | 5001- 10000 | 10001- 15000 | 15001- 25000. | >25000 | |
| | | Count | 5 | 1 | 1 | 1 | 2 | 10 |
| | sole | Expected Count | 3.0 | 2.3 | 2.7 | 1.0 | 1.0 | 10.0 |
| | | Count | 1 | 4 | 3 | 1 | 1 | 10 |
| Business | partners | Expected Count | 3.0 | 2.3 | 2.7 | 1.0 | 1.0 | 10.0 |
| type | family | Count | 2 | 2 | 3 | 1 | 0 | 8 |
| | business | Expected Count | 2.4 | 1.9 | 2.1 | .8 | .8 | 8.0 |
| | | Count | 1 | 0 | 1 | 0 | 0 | 2 |
| | public sector | Expected Count | .6 | .5 | .5 | .2 | .2 | 2.0 |
| | | Count | 9 | 7 | 8 | 3 | 3 | 30 |
| Total | | Expected Count | 9.0 | 7.0 | 8.0 | 3.0 | 3.0 | 30.0 |

Chi-Square Tests

| | Value | df | Asymp. Sig. | Mont | te Carlo Sig. | (2-sided) | Mon | te Carlo Sig. | (1-sided) |
|---------------------|--------|----|-------------|-------|---------------|-----------|-------|---------------|-----------|
| | | | (2-sided) | Sig. | 95% Co | nfidence | Sig. | 95% Co | nfidence |
| | | | | | Inte | rval | | Inte | rval |
| | | | | | Lower | Upper | | Lower | Upper |
| | | | | | Bound | Bound | | Bound | Bound |
| Pearson Chi-Square | 9.522a | 12 | .658 | .767b | .615 | .918 | | | |
| Likelihood Ratio | 11.363 | 12 | .498 | .767b | .615 | .918 | | | |
| Fisher's Exact Test | 10.328 | | | .700b | .536 | .864 | | | |
| Linear-by-Linear | .085° | 1 | .771 | .900⊳ | .793 | 1.000 | .533b | .355 | .712 |
| Association | | | | | | | | | |
| N of Valid Cases | 30 | | | | | | | | |

- a. 20 cells (100.0%) have expected count less than 5. The minimum expected count is .20.
- b. Based on 30 sampled tables with starting seed 92208573.
- c. The standardized statistic is -.291.

Table 4: Chi-square test for Hypothesis 4

Calculated value = 9.522, Asymptotic significance value = .658

Asymptotic significance value is greater than 0.05. Hence H0 is accepted and H1 is rejected.

Therefore there is no significant association between the business type and income level.

7.5 Hypothesis 5

- **H0** (null hypothesis): there is no significant association between the education qualification and business type.
- **H1** (alternative hypothesis): there is significant association between the education qualification and business type.

Education qualification * business type Cross tabulation

| | | | Business t | type | | | Total |
|---------------|---------|----------------|------------|----------|--------------------|---------------|-------|
| | | | sole | partners | family business | public sector | |
| | | Count | 3 | 6 | 3 | 0 | 12 |
| | pg | Expected Count | 4.0 | 4.0 | 3.2 | .8 | 12.0 |
| | ug | Count | 3 | 2 | 1 | 1 | 7 |
| Education | | Expected Count | 2.3 | 2.3 | 1.9 | .5 | 7.0 |
| qualification | | Count | 3 | 1 | 1 | 1 | 6 |
| | diploma | Expected Count | 2.0 | 2.0 | 1.6 | .4 | 6.0 |
| | | Count | 1 | 1 | 3 | 0 | 5 |
| | others | Expected Count | 1.7 | 1.7 | 1.3 | .3 | 5.0 |
| Total | | Count | 10 | 10 | 8 | 2 | 30 |
| Total | | Expected Count | 10.0 | 10.0 | 8.0 | 2.0 | 30.0 |

Chi-Square Tests

| | Value | df | Asymp. | | Monte C | arlo Sig. (2-s | ided) | Monte C | arlo Sig. (1-s | ided) |
|---------------------|--------|----|--------|-----|---------|----------------|------------|---------|----------------|------------|
| | | | Sig. | (2- | Sig. | 95% | Confidence | Sig. | 95% | Confidence |
| | | | sided) | | | Interval | | | Interval | |
| | | | | | | Lower | Upper | | Lower | Upper |
| | | | | | | Bound | Bound | | Bound | Bound |
| Pearson Chi-Square | 8.388a | 9 | .496 | | .633b | .461 | .806 | | | |
| Likelihood Ratio | 8.681 | 9 | .467 | | .800b | .657 | .943 | | | |
| Fisher's Exact Test | 7.855 | | | | .667b | .498 | .835 | | | |
| Linear-by-Linear | 4170 | | 518 | | 700b | 536 | 864 | 433b | 256 | .611 |
| Association | .417* | | .516 | | .7000 | .536 | .004 | .433° | .256 | .011 |
| N of Valid Cases | 30 | | | | | | | | | |

- a. 16 cells (100.0%) have expected count less than 5. The minimum expected count is .33.
- b. Based on 30 sampled tables with starting seed 79654295.
- c. The standardized statistic is .646.

Table 5: Chi-square test for Hypothesis 5

7.6 Hypothesis 6

- **H0** (null hypothesis): there is no significant association between the education qualification and income level.
- **H1** (alternative hypothesis): there is significant association between the education qualification and income level.

Education qualification * income Cross tabulation

| | | | | | income | | | Total |
|---------------|--------|-------------------|-------|----------------|-----------------|------------------|------------|-------|
| | | | <5000 | 5001- 10000 | 10001- 15000 | 15001- 25000. | >2500 0 | |
| | | Count | 1 | 4 | 5 | 0 | 2 | 12 |
| | pg | Expected Count | 3.6 | 2.8 | 3.2 | 1.2 | 1.2 | 12.0 |
| | | Count | 3 | 2 | 1 | 1 | 0 | 7 |
| Education | ug | Expected Count | 2.1 | 1.6 | 1.9 | .7 | .7 | 7.0 |
| qualification | diplom | Count | 2 | 0 | 2 | 2 | 0 | 6 |
| | a | Expected Count | 1.8 | 1.4 | 1.6 | .6 | .6 | 6.0 |
| | | Count | 3 | 1 | 0 | 0 | 1 | 5 |
| | others | Expected Count | 1.5 | 1.2 | 1.3 | .5 | .5 | 5.0 |
| | | Count | 9 | 7 | 8 | 3 | 3 | 30 |
| Total | | Expected Count | 9.0 | 7.0 | 8.0 | 3.0 | 3.0 | 30.0 |

Chi-Square Tests

| | Value | df | Asymp. | Mont | e Carlo Sig. | (2-sided) | Mont | e Carlo Sig. | (1-sided) |
|---------------------|--------|----|----------|-------|--------------|-----------|-------|--------------|-----------|
| | | | Sig. (2- | Sig. | 95% Co | nfidence | Sig. | 95% Co | nfidence |
| | | | sided) | | Inte | rval | | Inte | rval |
| | | | | | Lower | Upper | | Lower | Upper |
| | | | | | Bound | Bound | | Bound | Bound |
| Pearson Chi- | 16.083 | 40 | .187 | 4006 | .000 | .207 | | | |
| Square | | 12 | .187 | .100b | .000 | .207 | | | |
| Likelihood Ratio | 20.580 | 12 | .057 | .067⁵ | .000 | .156 | | | |
| Fisher's Exact Test | 14.538 | | | .100b | .000 | .207 | | | |
| Linear-by-Linear | .968° | 1 | .325 | .167º | .033 | .300 | .100b | .000 | .207 |
| Association | .500- | ' | .020 | .107- | .033 | .500 | .100- | .000 | .201 |
| N of Valid Cases | 30 | | | | | | | | |

- a. 20 cells (100.0%) have expected count less than 5. The minimum expected count is .50.
- b. Based on 30 sampled tables with starting seed 1993510611.
- c. The standardized statistic is -.984.

Table 6: Chi-square test for Hypothesis 6

Calculated value = 16.083, Asymptotic significance value = .187

Asymptotic significance value is greater than 0.05. Hence H0 is accepted and H1 is rejected.

Therefore there is no significant association between the education qualification and income level.

VIII. FINDINGS

| HYPOTE | ASYMPTOTI | RESUL | INFEREN |
|--------|------------|---------|-------------|
| SES | C | T | CE |
| | SIGNIFICAN | | |
| | CE VALUE | | |
| 1 | .302 | H0 is | There is no |
| | | accepte | significant |
| | | d and | association |
| | | H1 is | between |
| | | rejecte | the nature |
| | | d | of business |
| | | | and |
| | | | gender. |
| | .653 | H0 is | There is no |
| | | accepte | significant |
| | | d and | association |
| | | H1 is | between |
| | | rejecte | the age and |
| | | d | the |
| | | | business |
| | | | type. |
| 3 | .396 | H0 is | There is no |

| | | 2225-42 | aignificant |
|---|------|------------------|--------------|
| | | accepte | significant |
| | | d and | association |
| | | H1 is | between |
| | | rejecte | the age and |
| | | d | income |
| | | | level. |
| 4 | .658 | H0 is | There is no |
| | | accepte | significant |
| | | d and | association |
| | | H1 is | between |
| | | rejecte | the |
| | | d | business |
| | | | type and |
| | | | income |
| | | | level. |
| 5 | .496 | H0 is | There is no |
| 3 | .470 | | significant |
| | | accepte d and | association |
| | | u anu H1 is | |
| | | | between |
| | | rejecte | the |
| | | d | education |
| | | | qualificatio |
| | | | n and |
| | | | business |
| | | | type. |
| 6 | .187 | H0 is | There is no |
| | | accepte | significant |
| | | d and | association |
| | | H1 is | between |
| | | rejecte | the |
| | | d | education |
| | | | qualificatio |
| | | | n and |
| | | | income |
| | | | level. |
| | | | ievei. |

IX. CONCLUSION

From the study can be concluded that the demographic variables have an online payment system. It was found that the rural area merchants have no awareness and knowledge of online payment and they had pushed to after demonetization. Now a days they are adopted to use online payment system in rural area merchant in dharmapuri region. The study was conducted only in few merchants such as lack of time for the data collection. It would have been more utilization if it had been conducted in more rural area merchants in dharmapuri region. It is important to use online payment in all merchant in dharmapuri region. This study use to future research in Digital India project.

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