The effect of applying the electronic services system in the work of electronic banking (Applied research in a sample of Iraqi banks)

Khaled Khanjar Mansour Al-Saadi

Abstract

This article aimed to focus on the consequences of using the electronic services system (ESS) on the activities of electronic banking services (EBS), the study was on examples of Iraqi banks, as investment in technology which is the main important aspect for the accomplishment and future expansion of managerial company divisions in general, particularly, in banking, as a worldwide economic growth in the technology field that have guide to the most banking divisions in the world to essential changes and deep improvements in the system structure and methods to fight competitions and maintain a certain root with the changes in economy, taking in the consideration the diversity and the changes in the services of the bank. Particularly ever since the traditional approach does not gives the expected results, which enable the EBS to be a realistic application in different banking divisions. To accomplish this, the current study depends on the analysis of the questionnaire as a major means for information and data collection. The results show a noteworthy and optimistic effect of applying ESS in EBS.

Keywords: Electronic banking, electronic service system

1. Introductions

In recent years, the world is witnessing major changes and developments in the information and communication market and its technologies rapidly; these technologies have correlated with various economic activities and fields. Most of the sectors are now carrying out their activities through electronic services and transactions in order to achieve better practices and to achieve the objectives of the sector. The banking sector was among the most prominent sectors affected by the information and communication revolution. As the use of modern technology has become an integral component of it because of the efficiency it provides in the work and the speed of delivery and the abundance of information about customers and markets in order to create electronic service products with a high degree of technological development because the level of banking service depends mainly on the extent of its quality and its achievement for the largest possible followers of its recipients and the highest level of satisfaction, and on the other hand, the extent to which these electronic banking services contribute to the improvement and development of electronic banking activities. (Ease of use, availability and comprehensiveness information, speed response, privacy and secure) in electronic banking activities for the research sample. Therefore, the significance of the topic of the current study was represented by (ease of use, availability and comprehensiveness information, speed response, privacy and secure) which can be used to improve electronic banking activities, study and analyze the association between the impact of the ESS on EBS in Iraqi banks that were used as a research sample. The study (Yas, Jamil, 2014) indicates an identification of the quality and nature of electronic banking services provided by Iraqi banks and an analysis of the most important advantages, obstacles, danger and the elements for the success of using electronic banking in Iraq, and to achieve the objective of the research, he used a tool to collect data, which is a questionnaire form directed to managers and employees specialized in the electronic banking service for a selected sample of Iraqi commercial banks. After analyzing the results using the SPSS program for statistical analysis, the research resulted with many obstacles and risks such as the clients’ lack of knowledge of the electronic service, the lack of a technical infrastructure, the absence of laws to protect dealers that limit the use of electronic banking.
As for the study (Gregory Bressolles, 2006) entitled "Developing a Model for Measuring the Quality of Electronic Services", where a model was developed that contains six dimensions: They are (quality and volume of information, ease of use, graphic design, trust and reliable information, privacy and security, offers and interactivity). Through it, the quality of electronic services was measured, and the study was conducted on 1269 customers of five electronic commerce sites. As it came after the graphic design of the website in the first place in terms of importance, then ease of use and reliability in second place, and then privacy and security in the third place, to come next after the information, and in the last after the offers and interactivity. The study (Faiza, 2018) indicates identifying the quality of electronic services in its dimensions (ease of use, availability and comprehensiveness of information, speed response, compensation, private and secure) and its role in achieving the competitive advantage of telecommunications institutions in Algeria, and in order to accomplish the goal of the study, a questionnaire form was considered and distributed to 323 mobile phone customers in Algeria. The study come out with a most significant is the existence of an average correlation of (64.4%) between the availability of quality electronic services in its dimensions and the competitive advantage of the companies under study, the presence of a medium level of quality in electronic services in the companies under study, and there is no difference or discrepancy between the companies researched regarding the quality of their electronic services.

2. Methodology
2.1 Research problem
The problem of the research can be summarized in the below questions:
1. What are the roles of the electronic services system in electronic banking activities in Iraqi banks that were used as research sample?
2. What is the range of application of the ESS in providing banking services in Iraqi banks that were used as research sample?
3. Is there a clear perception among the studied banks about the importance of using electronic banking?
4. What is the effect of the electronic services system dimensions (ease of use, availability and depth of information, speed response, privacy and security) on electronic banking activities for the research sample?

2.2 The importance of the research
The importance of the research has derived its significance from the below:
- Study novel changeable for the ESS aspects represented by (ease of use, availability and comprehensiveness of information, speed of response, privacy and security) that can be used to improve the work of electronic banking.
- Studying and analyzing the connection among the aspects of ESS and the level of its impact on the work of electronic banking in Iraqi banks, the research sample.

2.3 Objectives of the research
The research try to achieve the below objectives:
- Shedding light on the transformation of Iraqi banks from the traditional mode of banking to the modern one based on the use of electronic banking tools.
- Identify the relationship among the existence of ESS within Iraqi banks and electronic banking activities from through research sample.
- Determine the interest of Iraqi banks in EBS and the extent of expansion in modernizing them and keeping rapidity with global development.

2.4 The hypothesis of the research
The hypotheses were based on below:
- There is an important association between the ESS and the electronic banking business.
- There is an important impact of the ESS on electronic banking work.
- There is a multiple effect of statistical significance for the combined aspects of the electronic services system in the work of electronic banking.

2.5 Domain and research data
2.5.1 Temporal boundaries: The study was carried out in 2021.
2.5.2 Location and places: Iraqi banks.
2.6 Methodology of the study
The study was depend on analyzing the experimental method via gathering and analyze the essential data, focusing on reviewing the belief and orientation of the research sample, using the expressive technique to depict the actuality of variables under study, while in the analytical approach, it statistical treatments to variables was used in analyzing the outcomes data, set conclusions and suggestions were adopted.

2.7 Analyzing approach
The questionnaire form was the major tool for gathering the information that related to the study, it was distributed from (2/1/2021) to (1/23/2021). The form has 2 main divisions, general information and (30) subsection that were classified to 2 groups: The first group has 20 sections related to compute the ESS while the second has 10 paragraphs has relation with electronic banking work.

2.8 Research difficulties and problems
1. The complexity of movement because of pandemic (COVID-19).
2. The complexity in gathering data from the Iraqi banks.
3. The unsteady security condition in Iraq.

2.9 Research model
Referring to the earlier studies regarding the (IV) independent variable (the ESS), which is defined in four aspects (ease of use, availability and comprehensiveness of information, speed response, privacy and security), and its consequence on the (DV) dependent variable (electronic banking work), figure 1.
2.10 Sample Research and the community
Table 1 indicates the size of the sample to the population.

<table>
<thead>
<tr>
<th>S</th>
<th>N</th>
<th>S</th>
<th>N</th>
<th>S</th>
<th>N</th>
<th>S</th>
<th>N</th>
</tr>
</thead>
<tbody>
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<td>2800</td>
<td>341</td>
<td>3000</td>
<td>246</td>
<td>3500</td>
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<td>9000</td>
<td>370</td>
<td>10000</td>
<td>375</td>
<td>15000</td>
</tr>
<tr>
<td>377</td>
<td>20000</td>
<td>379</td>
<td>30000</td>
<td>380</td>
<td>40000</td>
<td>381</td>
<td>50000</td>
</tr>
<tr>
<td>382</td>
<td>75000</td>
<td>384</td>
<td>100000</td>
<td>385</td>
<td>25000</td>
<td>386</td>
<td>50000</td>
</tr>
</tbody>
</table>

N: size of population S: of the sample

92 Questionnaire forms were distributed to the individuals, and in return 92 were answered (all of them were answered), the recovery rate was 100%.

2.11 Measuring honesty and constancy
2.11.1 Sincerity test: The questionnaire form was distributed to the individuals, and the changes and twists were made. The recovery rate was 100%.

2.11.2 Firmness test: The constancy test variables in the study.

2.12 Statistical tools
For data analysis, the researcher used the following tools:
- The Spss-Ver-19.
- Microsoft Excel 2010.

3. Literature review
3.1 The ESS concept
The electronic services system (ESS) represents the starting point for changing the business image in the twenty-first century, as the beginning of this century witnessed the transformation and transition of the economy from tangible goods to intangible services and the expansion of the information economy and electronic networks tremendously, which led to clearing the way for the emergence of the era of electronic services, and the electronic services are known in their broad framework as involving the provision of a service through electronic means and networks such as the Internet. (Fayza, 2018: 17) [5].

Electronic services are also known as “those services that are provided through electronic communication between the service provider and the beneficiary of it” (Al-Hazani, 2008: 47) [10]. It was also defined as “a group of activities and efforts in providing knowledge services based on technology and the desire for modern methods aimed at achieving quality and efficiency” (Ezz El-Din and Lotfi, 2018: 3) [4].

4. Dimensions of the electronic services system
1. Ease of use: It is the ease of navigation through websites, ease of access to the required information, and flexibility in using electronic services, through clarity of language and index arrangement, and ease of use of links on websites. It can also be defined as “The ability to interact with the website, the ease of navigation on the website, and the ease with which customers can accomplish their tasks”. The complex electronic services are of less use because they require great effort on the part of the user (Faiza, 2018: 85) [5].

2. Availability and comprehensiveness of information
The high-quality uses of collected data and the communication technology in the service sector enable us to provide a diversified and integrated package of services to customers, which is reflected in the speed of service provision, completion of work, payment of payments, and...
the implementation of financial transfers, since the content and information displayed on the website should be sufficient for the customer to be able to purchase through the site, as the website should have visual texts related to the company’s offers in a sufficient, clear and accurate manner so that the customer can understand and use (Mahmoud and others, 2013: 269).

3. Response speed
The response represents the proposal in providing devices and services by the employees, and the degree of response, any more progress than expected with a higher score. (Zeithaml & others, 2006: 117)\(^{(6)}\).

4. Privacy and security
It means freedom from danger, risk and suspicion, and this dimension includes the following: (Jinan, 2013: 54)
A. Physical security.
B. Financial security.
C. Confidentiality.

5. The concept of electronic banking activities
With the remarkable development in information and communication technology and the era of speed, traditional banking has become insufficient to satisfy the parties to commercial transactions, so the trend towards electronic banking activities has become the best solution. The activities of the electronic banking activities is “all activities or operations that were carried out, or promoted by optical means or electronic such as computer, digital television, telephone, internet, ATM, and internet” (Mustafa and Badran, 2013: 281; Diab, 2014: 23)\(^{(9,3)}\). And in light of this type of banking, the customer does not need to go to the bank, as he can perform some of his operations at his home, which means exceeding the dimensions of time and place, and he sees (Saleh& Andrea, 2002: 39)\(^{(13)}\). Electronic banking can also define as “a channel to provide banking services via the Internet to provide interest to the bank's customers. This results in new challenges for the country's authorities in organizing and supervising the financial system and in designing and implementing macroeconomic policies”. (Amna, 2015: 7)\(^{(1)}\). It was also known as “an application of the theory of electronic delivery of banking products and services through electronic delivery channels, as electronic banks have transferred their forms of dealings to automatic teller machines and telephone deals, and the reason for the rapid entry of this technology is that it is more accurate and effective around the clock regardless of the customer's location” (Charan, 2013: 19-20)\(^{(12)}\). Among the previous definitions, electronic banking is “the provision of banking services using information and communication technology, that is, through the Internet, automated distributors, and private networks. It allows remote banking services at high speed and at lower costs”. Electronic banking includes: (Mayada, 2015: 25-26)\(^{(6)}\).
1. Ability to reach a wide client base with no restrictions to a certain time and place.
2. Providing integrated, new and more sophisticated banking services throughout a modern ways that differentiate it from usual performance.
3. Reducing the cost, as it is an alternative to reducing a large part of the capital to establish continuous relationships between the bank and the customer.
4. The speedy completion of banking business as a result of the expansion of modern technical means and the speed they have brought about in the completion of banking work and the implementation of procedures that end with correct performance and high efficiency.
5. Card services through the provision of distinguished services.
6. The presence of an electronic medium such as a computer connected to the international information network.
7. Distinguishing, by offering a large range of diverse products and banking services.

The electronic banking tools can be divided into: (Al-Mousawi and Jawad, 2011: 176-178).

A- Electronic banking channels: the channels throughout banking services that were provided completely as follows: (Yas and Jameel, 2014: 39-42)\(^{(11)}\), (Rose & Hudgins, 2008: 114)\(^{(13)}\).
1. Automated teller machine (ATM).
2. Electronic Point of Sale (P.O.S).
3. Home banking (personal computer).
4. Mobile banking (mobile device).
5. Telephone banking.
6. Digital T.V.
7. Internet banks.

B- Electronic Cards: Including the following:
1. Credit Cards.
2. Protective Cards.
3. Civil Cards.
4. Smart Cards (Master Cards).

C- Electronic cheques

5. Empirical tests and analysis
5.1 Empirical analysis
This topic search is to clarify the mainly significant individuality of the research sample of employees in Iraqi banks, via the information in the questionnaire form, followed by a brief depiction of the sample individuals.
1. Distribution according to gender: Table (3) demonstrate that the gender were males (54.3%) and females (45.7%).
2. Distribution according to age: Table (3) illustrate that (9.8%) ranged from 21 to 30 years, and 29.3% were from 31 to 40 years, and 28.3%, from 41 to 50, and finally (32.6%) were 51 years and over.
3. Distribution according to academic qualification: Table (3) demonstrates that (71.7%) have a bachelor’s degree, 5.4% have a higher diploma, (13.0%) have a master’s degree, and lastly (9.8%) have a PhD.
4. Distribution according to the bank: Table (3) illustrate that Rafidain Bank achieved the highest percentage of the sample, as the percent reached (16.3%), followed by each of the (National Iraqi Bank, Agricultural Bank, Babylon Bank, Sumer Commercial Bank), as their percentage reached (10.9%), while the percentage of Gulf Commercial Bank reached (9.8%), followed by (Ashur Bank and North Bank), as their percentage reached (8.7%), followed by the Industrial Bank, which reached (7.6%), and finally The proportion of the Iraqi Middle East Investment Bank (5.4%), out of the total.
5.2 Hypotheses test
The research hypotheses were developed, according to the variables of the study, the dependent and the independent variables.

5.2.1 Correlation test of the hypothesis
The topic discuss and determinate the association between the variables, to discover the extent of rejecting or accepting main hypothesis, that is: There is a positive significance correlation between the ESS with the electronic banking work, by means of Pearson Correlation Coefficient. Figure 2 and Table 4 and Figure (2) which demonstrates the positive relationship with direct moral significance. Among the ESS and the electronic banking work, the correlation value is (0.765 **), at a level of significance (0.01), and the moral relationships is (5), constituting (100%), while the maximum sub-value of the correlation coefficients was between the electronic banking and the response speed, the value get to (0.811 **), at the significance level (0.01), which indicates a significant relationship and make clear a strong relationship among the electronic banking work and the speed of response which conclude the main hypothesis which is: “There is a statistical relationship with encouraging significance moral to the ESS in the work of electronic banking banks of Iraq”. Table 4 and figure 2.

Table 3: Sample Characteristics

<table>
<thead>
<tr>
<th>No.</th>
<th>Variables</th>
<th>Categories</th>
<th>Repeation</th>
<th>Percent %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gender</td>
<td>Male</td>
<td>50</td>
<td>54.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female</td>
<td>42</td>
<td>45.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>92</td>
<td>100.0</td>
</tr>
<tr>
<td>2</td>
<td>Age</td>
<td>21-30 years</td>
<td>9</td>
<td>9.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31-40 years</td>
<td>27</td>
<td>29.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>41-50</td>
<td>26</td>
<td>28.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>51 years and over</td>
<td>30</td>
<td>32.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>92</td>
<td>100.0</td>
</tr>
<tr>
<td>3</td>
<td>Educational Degree</td>
<td>Bachelor</td>
<td>66</td>
<td>71.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Post Graduate Diploma</td>
<td>5</td>
<td>5.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Master</td>
<td>12</td>
<td>13.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Doctorate</td>
<td>9</td>
<td>9.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>92</td>
<td>100.0</td>
</tr>
<tr>
<td>4</td>
<td>Banks</td>
<td>The National Bank of Iraq</td>
<td>10</td>
<td>10.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Agricultural Bank</td>
<td>10</td>
<td>10.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Industrial bank</td>
<td>7</td>
<td>7.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arab International Bank</td>
<td>8</td>
<td>8.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gulf Commercial Bank</td>
<td>9</td>
<td>9.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rafidain Bank</td>
<td>15</td>
<td>16.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Iraq Middle East Investment Bank</td>
<td>5</td>
<td>5.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>North Bank</td>
<td>8</td>
<td>8.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Babylon Bank</td>
<td>10</td>
<td>10.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sumer Commercial Bank</td>
<td>10</td>
<td>10.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>92</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Table 4: The correlation between ESS and the electronic banking work

<table>
<thead>
<tr>
<th>Tax performance Y</th>
<th>The Performance Y</th>
<th>系数 of correlation</th>
<th>Ease of use</th>
<th>Availability and comprehensiveness of information</th>
<th>Speed of response</th>
<th>Privacy and security</th>
<th>Electronic services system</th>
<th>Moral relations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.784**</td>
<td>0.711**</td>
<td>0.811**</td>
<td>0.763**</td>
<td>0.765**</td>
<td></td>
<td>5</td>
</tr>
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<td></td>
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<td>0.000</td>
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<td>0.000</td>
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<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Strength of Relationship and Morality (1%)
*The strength of the moral relationship (5%)
5.2.2: Test the influence of the hypotheses
It consist of Simple and Multi Regression Analysis

1. Simple Regression Analysis
As shown in table 5, the calculated F value reached 13.81, it is larger than tabular F value (7.91) at significance level (1%), and the significance was (0.000) at degree of freedom (1.90), which indicates a significant effect of ESS on the dependent variable (the work of electronic banking). The value R² was (0.520), indicating that the ESS (52%) in (electronic banking work), and the variance was (48%) which explained by factors that were not enter in the model of regression. Therefore, these outcomes provide adequate support to agree to the hypothesis impact of the 2nd main research.

Table 5: The impact of ESS on the work of electronic banking

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Electronic services system</th>
<th>Fixed Limit</th>
<th>Calculated Value of T</th>
<th>Marginal inclusion ( b )</th>
<th>Calculated Value of ( t )</th>
<th>Selection coefficient R²</th>
<th>Calculated Value of F</th>
<th>Morality</th>
<th>Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.453</td>
<td>3.532</td>
<td>1.130</td>
<td>7.620</td>
<td>0.520</td>
<td>13.81</td>
<td>0.000</td>
<td>There is an effect</td>
</tr>
</tbody>
</table>

*The value 0 of the table at a significant Int 5% and the degrees of freedom (1.90) = (3.94),

** The value 0 of the table at a significant level 1% and the degrees of freedom (1.2) = (7.91)

* Value (t) tabular at a significant level 5% and degrees of freedom (90) = (1.67)

** Value (t) tabular at a sirificant level 1% an d tun Jinn freedom (90) = (2.35)

2. Multi Regression Analysis
In methodology of the current study, the third major hypothesis was developed that the ESS dimensions (ease of use, availability and comprehensiveness of information, speed of response, privacy and security) collectively affect the work of electronic banking in a positive and moral way. From table 6 the calculated F value was (13.73), it is greater than tabular F value (3.57) at the significance level (0.01), with (0.000) significance, with (4.87) degree of freedom, this outcomes mean an important impact of the X on Y. this states the following:
(There is an important effect of variables (X), the ESS, on the work of electronic banking).

Table 6 indicates the same outcomes of table 5.

Table 6: The multiple effects of the X variables ESS in electronic banking work in Iraqi banks

<table>
<thead>
<tr>
<th>Electronic services system</th>
<th>Regression coefficients</th>
<th>Calculated T</th>
<th>Morality</th>
<th>Determination Coefficient R²</th>
<th>Calculated F</th>
<th>Morality</th>
<th>Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Limit</td>
<td>0.831</td>
<td>3.178</td>
<td>0.002</td>
<td>0.724</td>
<td>13.73</td>
<td>0.000</td>
<td>There is Effect</td>
</tr>
<tr>
<td>Ease of use</td>
<td>0.625</td>
<td>3.165</td>
<td>0.003</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability and</td>
<td>0.346</td>
<td>5.182</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>comprehensiveness of</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed of response</td>
<td>0.457</td>
<td>2.732</td>
<td>0.004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Privacy and Security</td>
<td>0.694</td>
<td>9.977</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The value (0 of the table at a significant level 5% and the degrees of freedom (4.87) (2.47)

**The value (0 of the table at a significant level 1% and the degrees of freedom (4.87) (3.57)

*Value (0 tabular at a significant lad 5% and degrees of freedom (87) (1.67)

**Value (t) tabular at the (awl of 1% and degrees of frgedoni (87)e (2.35).
6. Conclusions and Recommendations

6.1 Conclusions

1. A positive correlation between ESS in the work of electronic banking, due to the vital role of the electronic services system in developing and embodying modern administrative which raises the level of bank performance.
2. A significant effect of ESS on the work of electronic banking.
3. The electronic services system has a multiple impact (ease of use, availability and comprehensiveness of information, speed of response, privacy and security), both morally and positively in the work of electronic banking.
4. There are subsidiary problems in applying the electronic services system at work.
5. Lack of experience working on the electronic services system.
6. There is a difficulty in using modern technology at work.
7. Weakness of the relationship between individuals and bank administrations.

6.2 Recommendations

1. Settling the association between employees and bank administrations and do not ignore it.
2. Continuous updating and development to the elements to exclude the electronic services system (ease of use, availability and comprehensiveness of information, speed of response, privacy and security) and work to enhance them.
3. Overcoming the secondary problems in applying the electronic services system at work.
4. Training workers at work on the electronic services system.
5. Qualifying workers and introducing them to training courses on the use of modern technology at work.

7. References

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