Perceived Usefulness, Perceived Ease of Use, and Attitude towards using Front Office Tasks Simulator: A Preliminary Study in Community College

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Abstract

Simulation tool in hospitality education is suggested to fill the deficiency by exposing students in tangible business situations. In this study, Front Office Tasks Simulator has been used as an innovative teaching tool for hospitality students particularly in Front Office subject. Thus, this study investigated to see how students perceived Front Office Tasks Simulator (FOTS) in terms of perceived ease of use, usefulness, and attitude toward the use of FOTS during simulation activities and examines whether these factors were correlated. The participants were 22 students from Community College of Sungai Petani who took Front Office course in third semester of 2018 academic year. Questionnaires had been circulated in order to collect data. The results reveal that overall mean scores of perceived ease of use, perceived usefulness were at high level, and students had a positive attitude toward the use of FOTS for doing the practical activities. It was also found students learning performance was positively correlated with perceived usefulness and perceived ease of use FOTS. The perceived ease of use had positive relationship with perceived usefulness of FOTS and attitude towards using FOTS doing activities. Moreover, attitude was related to perceived usefulness while no relationship was found between attitude towards using and students learning performance. The concluding remarks suggested the possibility to integrate Front Office Tasks Simulator (FOTS) for other institutions that offer the same course and further research should be carry out to examine those factors whether the results are equivalent.

Keywords: Perceived usefulness, perceived ease of use, attitude towards using, learning performance, front office tasks simulator

Introduction

The hospitality industry is currently one of the fastest growing industries worldwide, moreover, hotel industry plays an important role towards supporting the Malaysian tourism as the major contributor in the service sector of Malaysian economy. As supported by the statement from Monster.com Asia Pacific and Middle East chief executive officer Abhijeet Mukherjee, he said “with Malaysia’s tourism sector identified as one of the major contributors to the nation’s economic success, welcoming 8.47 million tourists in the first four months of the year, growth in the hospitality and travel industry appears poised to continue” (NST Business, 2018, para 12).

Based on CBRE|WTW’s data, it shows that there are estimated shortage of 23,600 hotel rooms as at the end of year 2017 in Malaysia (Ng, 2018). With these statistics, it also displays there is a huge shortage of labour in this industry. Despite, this industry is unique and people-oriented industry since it involves people serve people which involves
employers, employees, and customers. Therefore, hotel staffs as the service delivers require not only customer service skills (Sanders, 2011) but they also need competencies, knowledge and attitudes (Ahammad, 2013) in order to provide a better service experience.

In today hospitality industry, guest service still remains the essential and most important element (Högnäs, 2015) to win the customers’ heart due to hotel services begin at the front desk (Sayin & Karaman, 2019). In this view, it is expected that growth in the service industry will continue to be strong in 2017 (Geerts, 2016), creating a demand for an educated and trained workforce. Polytechnics and community colleges is playing a big part in giving education and training as an effort to develop human resources (Ministry of Education Malaysia, 2018). As stated in Polytechnic and Community College Strategic Plan 2018 - 2025 (Ministry of Education Malaysia, 2018), one of the core strategic is to produce quality Technical and Vocational Education and Training (TVET) graduates. Moreover, in order to meet the needs of today’s education for hospitality student learning experience, as stated by Malaysia Education Blueprint 2015-2025 (Higher Education), educators are advised to apply technology and be innovative in their teaching skills (Ministry of Education Malaysia, 2016).

Limited equipment or teaching aids (Chijioke & Naade, 2018; Widiyatmoko & Nurmasitah, 2013) and an improper learning atmosphere (Che Ahmad, Shaharim & Yahaya, 2016; Mat Saad, Nik Yusoff & Mohammad Yassin, 2011) are always the primary problems contributing to the inadequate learning performance of learners. There is growing awareness that a higher knowledge of how learners learn plays a critical part in enhancing student teaching performance (Ampountolas, Shaw & James, 2018). Therefore, an innovation teaching tool - Front Office Tasks Simulator (FOTS) that has been developed in order to build simulation tasks card and prepare the simulated workplace environment for students to align well with learning the real activity of check-in/check-out processes which require students to combine motor skills (data entry, credit card/cash processing) with customer service and orientation (greet and interrelate with guests).

Research Objectives

This study aims to investigate the perspectives of Front Office students towards using Front Office Tasks Simulator as a teaching aids for front office subject in community college. In particular, this study has two objectives:

(i) To examine students' perceived usefulness and perceived ease of use of Front Office Tasks Simulator as an innovative teaching tool for Front Office subject in community college;

(ii) To what extend students’ attitude towards using Front Office Tasks Simulator.

(iii) To determine the relationship between students’ learning performance, perceived ease of use, perceived usefulness, and attitude towards using Front Office Tasks Simulator.

Research Questions

(i) What are the students' perceived usefulness and perceived ease of use of Front Office Tasks Simulator?

(ii) How did the students respond to the use of Front Office Tasks Simulator for doing activities?

(iii) Are there any relationships between students’ learning performance, perceived ease of use, perceived usefulness, and attitude towards using Front Office Tasks Simulator?
Theory

The theoretical foundation of this research derives from Ajzen and Fishbein's Theory of Reasoned Action (TRA) (1980). TRA suggests that conduct, in this case acceptance of the Dynamics financial management information system, is affected by individual perception and attitude, competing environment and social pressure. The Technology Acceptance Model (TAM) research instrument as created by Davis (1989) is an expansion of TRA. TAM postulates that people may have been encouraged to use an information system because of the inherent benefits obtained, such as perceived usefulness, perceived ease of use and attitude towards using the system. He assumes that the perceived user-friendliness towards the scheme can contribute to enhancing a person's efficiency. Because the user will have to deploy less effort with an easy-to-use instrument, he will be able to spare efforts to achieve other duties. He also assumes that the quality of job and productivity will boost with perceived usefulness, because the scheme should assist the customer perform better. Both perceived usefulness and perceived ease of use predict attitude towards using the tool, described as the user's desirability of using the tool. The general attitude of a user towards using the specified tool is hypothesized to be a significant determinant of whether or not he actually uses it. Attitude and perceived usefulness affect the person to effectively use the tool.

Figure 1. The Technology Acceptance Model for Front Office Tasks Simulator at Community College Sungai Petani
Source. Technology Acceptance Model (TAM) (Based on Davis, 1989)

Methodology

This study adopted descriptive survey research design. The methodology involved the use of questionnaire to elicit needed responses from community college students on their perceived ease of use, perceived usefulness, attitude towards using Front Office Tasks Simulator in teaching and learning of Front Office. The population of the study comprised of all hospitality students in Community College Sungai Petani, Kedah, Malaysia. Purposive sampling technique was used to select all the hospitality education students in their 3rd semester year in the college. This was because, students in their 3rd semester were taken Front Office subject. A total of 22 students was therefore selected as sample for this study.

The survey consisted of four sections. The first section comprised questions regarding respondents’ demographic and background information. The second section measured student’s perceived usefulness (5 items) of the FOTS as innovative teaching tool adapted from Davis (1989). The third section measured students’ perceived ease of use (5 items) based on Davis (1989). The fourth section comprised questions regarding attitude toward using (6 items) FOTS adapted from Douglas and Miller (2006). A five-point Likert scale response format was used with the following categories: 5 = strongly agree; 4 agree; 3 = undecided; 2 = disagree; and 1 = strongly disagree. Data were statically recorded and analysed by SPSS program. Personal data of the participants were calculated for frequency
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and percentage. Data concerning perceived usefulness, perceived ease of use, and attitude towards using FOTS were analysed quantitatively for means and standard deviations. The ranges were as follows: 1.00-1.67 = low/negative, 1.68-3.33 = moderate, 3.34-5.00 = high/positive.

**Literature Review**

Simulation is considered a student-centered approach that students can learn by themselves (Chaparro-Peláez, Iglesias-Pradas, Pascual-Miguel & Hernández-García, 2013). Moreover, this has been stated by Frash, Antun, Kline, and Almanza (2010) that simulations that recreate working circumstances can be an efficient way to train and suit participants' needs and skill levels.

In Pratt and Hahn’s (2015) findings, they concluded that simulation provided a worthwhile learning experience through the development of teamwork, offered a fun method of learning, and integrated their knowledge from other courses. Another study by Douglas, Miller, Kwanza, and Cummings (2008) added to this finding that simulation has shown to be a tool useful for the development of skills crucial to the hospitality business management. In this their study, the findings showed that students' perceived usefulness of the simulation was positive.

Study by Ampountolas, Shaw, and James (2018) examined the learning experience of learners using hotel simulation as a teaching instrument. This research was attended by 101 learners of the hospitality management program in Switzerland, the United States and the United Kingdom who had already been instructed in a course using hotel simulation training. Theoretical learning based on role-play using simulation can enhance practical knowledge and increase trust. Pedagogical interaction has been suggested as one of the main components of any teaching experience (Hay, Hodgkinson, Peltier, & Drago, 2004).

**Front Office Tasks Simulator**

Front Office Tasks Simulator (FOTS) is a new innovative learning instrument that has been created to provide learners with an experiential learning to carry on as hotel staff through the many duties of a hotel worker. Front Office Tasks Simulator (FOTS) incorporates three innovation concepts: i) VIRETST plus 3D (Figure 1) – Bellmen can use as a virtual guest room / hotel to take, demonstrate and describe the facilities in the room and hotel to hotel visitors; ii) FOTOKIT (Figure 2) – Front Office Learning Toolkit as a simplified hotel system that can be used by the receptionist and reservation clerk to make the reservation, check-in, check-out and guest billing; and iii) Tasks card / simulation training (Figure 3) – is a simulation activity intended to generate the actual working environment or situation or scenario for learners as staff to adapt the actual workplace environment and situation, such as reservation booking through telephone, check-in with or without reservation and check-out, concierge and bellmen. Students who participate in the situation and are supposed to apply their understanding to develop the best response to resolve the issues or problems presented in the simulation. Figure 4 shows the flow of Front Office Tasks Simulator application process.
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Figure 1. VIRTEST plus 3D layouts
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Figure 2. FOTOKIT layouts
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Figure 3. Tasks card layout
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Results

Research Question 1: What are the students’ perceived usefulness and perceived ease of use of Front Office Tasks Simulator?

Table 1 demonstrates the overall mean score of students’ perceived usefulness of FOTS which was at high level (Mean = 4.78, SD = .404). The first highest mean score fell on item no. 1 (Can increase my understanding in real workplace situation, Mean = 4.86, SD = .351) and item no. 3 (Can improve my learning experience, Mean = 4.86, SD = .351), followed by item no. 2 (Can increase my learning efficiency, Mean = 4.82, SD = .395). The lowest mean score was on items no. 4 (Can increase my focus on learning compare traditional learning, Mean = 4.68, SD = .568) and item no. 5 (Can sustain my learning performance, Mean = 4.68, SD = .568). It is interesting to see that all of the items were at high levels. In this study, item no. 1 (Can increase my understanding in real workplace situation) is well scattered around the mean when compare to item no 4 and 5 as the SD for item no 1 is smaller.
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Table 1
Mean and Standard Deviation of Students’ Perceived Usefulness of FOTS

<table>
<thead>
<tr>
<th>Statement</th>
<th>Mean</th>
<th>S.D.</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Front Office Tasks Simulator increase my understanding in real workplace situation.</td>
<td>4.86</td>
<td>.351</td>
<td>High</td>
</tr>
<tr>
<td>2  Front Office Tasks Simulator increase my learning efficiency.</td>
<td>4.82</td>
<td>.395</td>
<td>High</td>
</tr>
<tr>
<td>3  Front Office Tasks Simulator improve my learning experience.</td>
<td>4.86</td>
<td>.351</td>
<td>High</td>
</tr>
<tr>
<td>4  Front Office Tasks Simulator increase my focus on learning compare traditional learning.</td>
<td>4.68</td>
<td>.568</td>
<td>High</td>
</tr>
<tr>
<td>5  Front Office Tasks Simulator can sustain my learning performance.</td>
<td>4.68</td>
<td>.568</td>
<td>High</td>
</tr>
<tr>
<td>Total</td>
<td>4.78</td>
<td>.404</td>
<td>High</td>
</tr>
</tbody>
</table>

Table 2 shows the overall mean score of perceived ease of use which was at high level (Mean = 4.69, SD = .526). When considering each item, it was found that five items could be arranged from most to least as follows: easy to use (Mean = 4.73, SD = .550), easy to complete course related tasks (Mean = 4.73, SD = .456), is unambiguous and easy to understand (Mean = 4.68, SD = .568), provides helpful guidance in performing tasks (Mean = 4.68, SD = .568), and easy for me to remember how to perform tasks using the Front Office Tasks Simulator (Mean = 4.64, SD = .581). In this study, item no. 2 (easy to complete course related tasks) is clustered closely around the mean when compare to SD item no 5 is higher and more spread out data values are around the mean.

Table 2
Mean and Standard Deviation of Students’ Perceived Ease of Use FOTS

<table>
<thead>
<tr>
<th>Statement</th>
<th>Mean</th>
<th>S.D.</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Front Office Tasks Simulator are easy to use.</td>
<td>4.73</td>
<td>.550</td>
<td>High</td>
</tr>
<tr>
<td>2  Using Front Office Tasks Simulator to complete course related tasks are easy.</td>
<td>4.73</td>
<td>.456</td>
<td>High</td>
</tr>
<tr>
<td>3  Interacting with Front Office Tasks Simulator is unambiguous and easy to understand.</td>
<td>4.68</td>
<td>.568</td>
<td>High</td>
</tr>
<tr>
<td>4  Front Office Tasks Simulator provides helpful guidance in performing tasks.</td>
<td>4.68</td>
<td>.568</td>
<td>High</td>
</tr>
<tr>
<td>5  It is easy for me to remember how to perform tasks using the Front Office Tasks Simulator.</td>
<td>4.64</td>
<td>.581</td>
<td>High</td>
</tr>
<tr>
<td>Total</td>
<td>4.69</td>
<td>.526</td>
<td>High</td>
</tr>
</tbody>
</table>

Research Question 2: How did the students respond to the use of Front Office Tasks Simulator for doing activities?

Table 3 shows that overall mean score of attitude toward using FOTS for doing activities was positive (Mean = 4.66, SD = .523). The first highest mean score fell on item no. 6 (I enjoy myself studying in this environment, Mean = 4.77, SD = .429), followed by item no. 5 (provide an attractive learning environment, Mean = 4.73, SD = .456), item no. 3 (Comfortable interacting with other students, Mean = 4.68, SD = .568), and item no. 2
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(was fun to use, Mean = 4.64, SD = .658). The lowest mean score was on items no. 1 (Liked using the Front Office Tasks Simulator, Mean = 4.59, SD = .796) and item no. 4 (Improved quality of course compared to others, Mean = 4.55, SD = .671). All of the items were positive. In this study, item no. 6 (I enjoy myself studying in this environment) is well scattered when compare to item no 1 as the SD for item no 6 is smaller.

Table 3
Mean and Standard Deviation of Students’ Attitude towards Using FOTS

<table>
<thead>
<tr>
<th>Statement</th>
<th>Mean</th>
<th>S.D.</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Liked using the Front Office Tasks Simulator.</td>
<td>4.59</td>
<td>.796</td>
<td>Positive</td>
</tr>
<tr>
<td>2  Front Office Tasks Simulator was fun to use.</td>
<td>4.64</td>
<td>.658</td>
<td>Positive</td>
</tr>
<tr>
<td>3  Comfortable interacting with other students.</td>
<td>4.68</td>
<td>.568</td>
<td>Positive</td>
</tr>
<tr>
<td>4  Improved quality of course compared to others.</td>
<td>4.55</td>
<td>.671</td>
<td>Positive</td>
</tr>
<tr>
<td>5  Front Office Tasks Simulators provide an attractive learning environment.</td>
<td>4.73</td>
<td>.456</td>
<td>Positive</td>
</tr>
<tr>
<td>6  I enjoy myself studying in this environment.</td>
<td>4.77</td>
<td>.429</td>
<td>Positive</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4.66</td>
<td>.523</td>
<td>Positive</td>
</tr>
</tbody>
</table>

Research Question 3: Are there any relationships between students’ learning performance, perceived ease of use, perceived usefulness, and attitude towards using Front Office Tasks Simulator?

This research question was to examine the relationships among four factors. Apart from data from the questionnaire, the result from the test was calculated as an important factor. Student learning performance was measured by the practical score (reservation and reception) earned out of 110. It was found that the mean score was 103.02 with S.D. of 4.61. Several analyses were, therefore, performed using Pearson Correlation Coefficients to find out whether any relationships existed. Findings reveal that student learning performance was correlated with perceived usefulness of FOTS (r=.150, p=.506) and perceived ease of use toward FOTS (r=.000, p=.999). That is, the more students perceived usefulness of FOTS and the more they perceived ease of use FOTS, the higher learning performance they gained. However, there was no correlation between student learning performance and attitude toward doing activities using FOTS (r=.027, p=.904). In addition, it is noted that perceived ease of use had positive high relationship with perceived usefulness of FOTS (r=.849, p=.000) and attitude toward doing activities using FOTS (r=.827, p=0.00). The results also indicated that students’ perceived usefulness of FOTS was correlated with their attitude toward doing the activities using FOTS (r=.849, p=0.00). The details were presented in Table 4.

Table 4
Intercorrelations among variables

<table>
<thead>
<tr>
<th></th>
<th>Ease of use</th>
<th>Usefulness of FOTS</th>
<th>Attitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning performance</td>
<td>.000</td>
<td>.150</td>
<td>-.027</td>
</tr>
<tr>
<td>Ease of use</td>
<td>-</td>
<td>.849**</td>
<td>.690**</td>
</tr>
<tr>
<td>Usefulness of FOTS</td>
<td>.849**</td>
<td>-</td>
<td>.827**</td>
</tr>
<tr>
<td>Attitude</td>
<td>.827**</td>
<td>.690**</td>
<td>-</td>
</tr>
</tbody>
</table>

** Correlation is significant at the 0.01 level (2-tailed)
The first discussion is about the two factors comprising perceived ease of use and perceived usefulness which are at high levels. The findings indicate that students felt comfortable when FOTS was used as innovative teaching tool in the course. One of the reasons may have been the use of FOTS, which this tool can create an enjoyable learning environment and enhances student learning performance through simulation learning. As a result, they found simulation provided a worthwhile learning experience for students. This is also consistent with a study by Ampountolas et al. (2018) who suggested that learning experience is obtained as students gain understanding in real time. Regarding the high level of perceived usefulness, FOTS can be an effective learning method to increase students’ satisfaction. The functions of FOTS itself were made learning more fun and meaningful. Apart from that, there were many other elements of learning context involved that they might consider useful such as virtual guest room/hotel, simplified hotel system and simulation tasks. Interestingly, perceived ease of use had positive high relationship with perceived usefulness of FOTS. Researchers might conclude that comfort with FOTS usage enabled students to see the importance of it. The more they were comfortable with FOTS, the more they perceived its usefulness. FOTS is not a difficult tool to use as there is a manual for it.

The second issue for discussion is about students having positive attitude toward the use of FOTS for doing the activities. This is probably because all the simulation tasks to be done in FOTS allowed them to notice the benefits of FOTS as an innovative teaching tool. It facilitated their learning in many aspects. They could learn and work together very well. Based on the findings, attitude had positive relationship with perceived ease of use. This may be concluded that a positive attitude comes from the comfort with FOTS. This finding is consistent with Bugembe (2010) who proposed that perceived ease of use not only predicts attitude towards the system, but is also an antecedent of perceived usefulness that is to say the less effort a system is to use, the more using it can increase job performance; and Matute-Vallejo and Melero-Polo (2019) who revealed that perceived ease of use and usefulness were positively influence students’ attitudes towards online business simulation game. Simulation integrated in innovative and interactive learning scenarios stimulates the learning. these experiential learning activities able to enhance their social skills, engage their critical thinking, acquire needed hands-on experience, and improve their self-confidence.

The next important issue is about learning performance. After doing the activities for 6 weeks using FOTS, it was worthwhile to assess their ability. It is strongly believed that the simulation tasks students did in FOTS enabled them to learn more about procedure of reservation, check-in, check-out, and guest billing. The finding showed the average mean score of 103.02 from the full score of 110, which rather when compared to other classes taught by traditional way only. This is probably because doing a simulation task were not boring since it provided students with a platform to see the real workplace situation and gained experiential learning. In this study, learning performance was found to have positive relationship with perceived usefulness and perceived ease of use. This showed that the more students perceived useful and perceived ease of use FOTS, the higher their learning performance. How, in contrast to this, Nugroho, Dewanti, and Novitasari’ (2018) findings stated that both perceived usefulness and perceived ease of use do not influence students’ performance in E-learning. There are several other factors affecting perceived usefulness and perceived ease of use in influencing performance.
LIMITATION AND RECOMMENDATION

The results of the current study should be interpreted with some limitations. First, the participants were restricted to community college students in Sungai Petani, Kedah, Malaysia; therefore, the results may not generalize to students in other institutions or other states. Second, in this study Front Office Tasks Simulator (FOTS) was selected to facilitate experiential learning. Since students’ perception on other simulation tool were not investigated, it is difficult to conclude that FOTS is the most effective learning tool. Therefore, future research should include other simulation tools in the course in order to find out which tool students perceive the most effective in enhancing their learning performance.

CONCLUSION

The results from this study will be useful for any teachers who want to integrate FOTS in future courses for experiential learning development. There are two issues to be addressed. Firstly, even though FOTS can be used to facilitate students’ learning in Front Office to increase students’ understanding the flow of the real workplace situation, many factors to be considered as when creating any simulation tasks. In this study, it is found that student learning performance was positively correlated with perceived usefulness and perceived ease of use FOTS. Students’ perceived usefulness of FOTS was also correlated with perceived ease of use FOTS. FOTS is suitable for the course as the features of FOTS are user friendly, so student tend to have positive attitude toward learning through FOTS. In this regard, students can increase other skills such as communication skill, interpersonal skill, and problem-solving skill. FOTS can be a platform that create real workplace situation for students to gain real experience and able to see the flow of how the real workplace situation in Front Office Department.

REFERENCES


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Ran_Fizikal_Bilik_Darjah_Terhadap_Tahap_Keselesaan_Pen_gajar_Dan_Pembelajaran


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