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Students’ Perception on Perceived benefits of Online Social Interaction for Learning during COVID -19 Pandemic

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Abstract
Due to the pandemic crisis, most of the classroom settings for various fields of education moves to an online learning environment with which most of the students and course instructors were not very familiar. This would affect on how their interact among each other. This study aims to determine the perceived benefits of online social interaction in online learning. This study uses descriptive statistics on the data collected from the accounting final year students who were learning online due to the pandemic COVID-19. The main results show that perceived benefits of online social interaction between students and the course instructor are more important than from fellow online students even though they have been experienced with online learning. This suggests that students are aware continuing learning online is more essential during a pandemic crisis. The study will be helpful for instructors to be more innovative in formulating online learning activities that can foster social interaction with fellow students in the online class and analyze their pedagogical approach to improve effectiveness.

Keywords: Perceived Benefits, Online Social Interaction, Pandemic Crisis

Introduction
The two years outbreak of Coronavirus Disease 2019 (COVID-19) experienced an effect on the way of teaching and learning delivery for most of the education providers where online classes are widely adopted in 120 countries (Azzi-Huck and Shmis, 2020). In Malaysia, to avoid disrupting the learning process, the government takes proactive action by implementing home-based teaching and learning (PdPR) classes. According to Tu and Corry (2002), three elements are important for online learning such as instruction, social interaction, and technology. While Saykili (018) indicates that implementing online learning requires for proper design and delivery approach. Further investigation for online learning definitions offers an explanation where some students associated with are a method of learning that offers new prospects in the classroom for various fields of education, (Rodrigues et al., 2019). While Shabha (2004) defined online learning as an e-learning method where a student can learn at any time or location over the Internet. So that, Researcher (2015) relates this learning
process with Internet learning. Through this, interaction among students and between students and instructors is a crucial aspect to endure the student learning and understanding about courses. Responding to the above discussion, the study aims is

- to determine students’ perception of the perceived benefits of social interaction in online learning.

**Related Literature Review**

Reviewing on literature proposed several concepts interaction in online learning. For example, in the study by Moore (1989); Su et al (2005); Abrami et al (2011); Alqurashi (2019), outlined the online learning interaction can take in place in many forms which is learner-content interaction, learner-instructor interaction, and learner-learner interaction. While Baber (2020) relates interaction in online learning engaged with constructing a meaningful exchange of information and ideas where it is a psychosomatic perception toward the overall process between more than two people. In his study’s discussion, it highlights about existing direction on enhancing interaction between instructors and learners (Saba, 2000; Shin and Chin, 2004; Woo and Reeves, 2007). Therefore, interaction during online learning is the key element for gaining learning experience and positive learning outcome (Kuo et al., 2014; Alqurashi, 2019). At the same, interaction leads to share values and interests (Tang and Tsui, 2018) and helps to build knowledge and empower learners (Holland, 2019).

For successful online learning, a hybrid learning experience is required according to Moore (1989). So, online learning interaction is a way for students to communicate outside of class by allowing them to obtain knowledge and improve skills in a different academic context. (Espitia et al., 2013). Kang and Im (2013) discovered that student-instructor interactions accounted for a large portion of both students' perceived learning and course satisfaction. In addition, Kim et al (2011) find that instructor interactions and student interactions predicted students' perceptions of social presence. However, students’ active interaction does not occur automatically in online learning. So et al (2010) find that students' engagement in online learning was generally low when participation in online conversations, as compared of discussion boards. Other than that, Fung (2004) also emphasizes that online students participate in online learning to meet the requirement of their online instructors. So, the issue of social interaction has been observed to be less effective during online learning between students and instructors as equal as face-to-face interaction. In fact, the sudden shift toward online learning has raised concern to the failure of online instructors to use strategies to promote online interaction among students and between students and their instructors. This is consistent with Lee & Choi (2011) find that learning in online classroom settings can be challenging to students because they might not feel comfortable interacting using online methods and asking questions or seeking assistance from online students even though they have experience with online learning (Cho & Jonassen, 2009; Hrastinski, 2008). Therefore, some studies suggest that interaction the online learning needs to be facilitated by online instructors (An, Shin, & Lim, 2009; Cho & Kim, 2013; Hew, Cheung, & Ng, 2010).

Despite the past studies suggesting the interaction is one of the critical success factors to support online learning and increase student learning outcome and satisfaction (Razali, Ahmad & Noor, 2020), it also highlights the important indicators for interaction among the students (Alqurashi, 2019) and student with the instructor (Moon-Heum and Yoon-Jung, 2016). Therefore, Alqurashi (2019) includes the measure of socialization, instructor feedback,
sharing and discussing ideas, group activities and content-related interaction that would improve student satisfaction of online learning. Similarly with Baber (2020) conducted a study and found interaction as the most important determinant of student perceived learning outcome and satisfaction in online learning during the COVID-19 pandemic. However, few studies find that interaction has also served an equally important element face to face learning (Kang and Im, 2013; Lasfeto, 2020).

Another related study in interactions of online learning by Rovai (2007) suggests the five strategies of social presence, learner-to-learner interaction, cultural communication patterns, gender-based communication patterns, and student status. Nonetheless, a lack of studies for defining and measuring all strategies had been explained by Moon-Heum and Yo-Jung (2016) to provide a useful scale for assessing the roles of strategies in promoting interactions in online learning contexts. Furthermore, the strategy of measuring social presence in online learning, the online instructor can use several proxies to evaluate online discussions such as the number of messages posting each day, maintaining focused discussions, and encouraging student dialogue by asking thought-provoking questions

According to Hirumi (2002), online learning interactions in some cases are not effectively achieved a social interaction among the students. Thus, Hwang and Song (2018) propose the adoption of learning theory in online learning to encourage interaction. Accordingly, the social interaction support for students may find in scaffolding theory by Lev Vygotsky. Moreover, their many effectiveness studies suggest a scaffolding approach contributes to active participation and builds common understanding through communicative exchanges (Stone, 1993). This implies that the student is not a passive participant during interaction with the instructor in an online class because interaction affects the learners’ learning outcome (Mehall, 2020). A similar finding by Harasim et al (1995) indicates that social bonding has contributed to socio-affective and cognitive benefits for learning. In a later study by Neumann (1998) suggests an improvement of online learning through enhancing the interaction between students and instructors. Therefore, revisiting several past studies find that interaction between students and instructors increases the perceived better learning outcomes (Eom and Ashill, 2016; Baber, 2020). However, Eom et al (2006) find there is no empirical relationship between social interaction and perceived learning outcomes. Another study supports this finding by which social interaction has a negative influence on learners’ perceived learning achievement in Korea by Kang and Im (2013). Among the reason, highlighted by Jung et al (2002) discovered that personal interaction such as social intimacy in the beginning and during the online course has a positive impact on the learners’ learning outcome

Research Methodology
Participants
Final accounting students were chosen as the participants for this study from the Faculty of Management and Economics, Sultan Idris Education University which is having experience in online learning during the movement control order (MCO) period. The participants were 57 in the Semester 2 Session 2019/2020 (A192) and Semester 1 Session 2020/2021 (A201). Among them is mostly aged below 23 years old (89.5%) and followed by those aged more than 23 years old (10.5%) as the target participant. In terms of their enrollment background to the accounting program, the majority of the students were enrolled using Matriculation
(75.4%), Diploma (15.8%), and followed by Malaysian Higher School Certificate (8.8%). Around 19.3% of participants were male and the rest were female (80.7%) as shown in Table 1.

Table 1 - Demographic classification

<table>
<thead>
<tr>
<th>Demographic Classification</th>
<th>Frequency</th>
<th>Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Below 23 years old</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Above 23 years old</td>
<td>6</td>
</tr>
<tr>
<td>Gender</td>
<td>Male</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>46</td>
</tr>
<tr>
<td>Enrolment</td>
<td>Matriculation</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>Malaysian Higher School Certificate (STPM)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Diploma</td>
<td>9</td>
</tr>
<tr>
<td>Program</td>
<td>AT08</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>AE02</td>
<td>22</td>
</tr>
</tbody>
</table>

Instruments
A structured questionnaire was designed according to past literature surveys such as Cho and Cho (2016) and Christopoulos, Conrad & Mitul (2014). For designing the final questionnaire, the pre-testing was conducted with 30 participants and their feedback was considered. The questionnaire in this study included twenty items for perceived benefits in online learning interaction that were applied to scale. The reliability of the full survey for social interaction in online learning between student and student was 0.955, and 0.929 for student and instructor.

Data Analysis and Discussions
The data were analyzed using descriptive statistics as the study focuses on determining students’ perception towards perceived benefits of social interaction in online learning among the final year accounting students. The findings are organized by research objectives. Table 2 provides data on students’ perceptions towards the perceived benefits of social interaction between students and students in online learning. The students were asked to respond to ten statements regarding their experience in online class interaction. The table displays the mean values of students’ agreement with the statements regarding their perceived benefits of social interaction in online learning. Based on the overall mean value (3.99), it shows that the student agrees with the presence of advantages for social interaction in their online learning such as encouraging them to share knowledge (4.26), collaboration (4.18), positive thinking (4.14), and sharing common goal (4.07) and encourage participation (4.05). In term of the contribution of social interaction in online learning, it also help the student to receive real-time feedback from their fellow students (3.96), make learning materials more attractive (3.96), interactive communication (3.84), make their learning easy (3.79) and fun (3.61).
Table 2: Students’ perception of perceived benefits of social interaction in online learning between students and fellow online students.

<table>
<thead>
<tr>
<th>Perceived Benefits</th>
<th>N</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interaction in online learning encourage knowledge sharing</td>
<td>57</td>
<td>4.26</td>
<td>1.126</td>
</tr>
<tr>
<td>Interaction in online learning encourages collaboration</td>
<td>57</td>
<td>4.18</td>
<td>1.283</td>
</tr>
<tr>
<td>Interaction in online learning encourages a positive thinking</td>
<td>57</td>
<td>4.14</td>
<td>1.342</td>
</tr>
<tr>
<td>Interaction in online learning encourages students to share a common goal</td>
<td>57</td>
<td>4.07</td>
<td>1.147</td>
</tr>
<tr>
<td>Interaction in online learning encourages participation</td>
<td>57</td>
<td>4.05</td>
<td>1.274</td>
</tr>
<tr>
<td>Interaction in online learning encourages students to provide and receive real-time feedback</td>
<td>57</td>
<td>3.96</td>
<td>1.322</td>
</tr>
<tr>
<td>Interaction in online learning encourages students to share attractive learning materials</td>
<td>57</td>
<td>3.96</td>
<td>1.267</td>
</tr>
<tr>
<td>Interaction in online learning encourages students to communicate in interactively</td>
<td>57</td>
<td>3.84</td>
<td>1.373</td>
</tr>
<tr>
<td>Interaction in online learning made the learning easier</td>
<td>57</td>
<td>3.79</td>
<td>1.473</td>
</tr>
<tr>
<td>Interaction in online learning made the learning fun</td>
<td>57</td>
<td>3.61</td>
<td>1.461</td>
</tr>
<tr>
<td>Overall mean</td>
<td></td>
<td>3.99</td>
<td></td>
</tr>
</tbody>
</table>

Then, the students were asked to respond to ten statements in regards to the perceived benefits of social interaction in online learning between students and instructors. Table 3 illustrates the mean values of students who agree to the statements based on their perceptions of the perceived benefits of social interaction in online learning. Based on the average mean value (4.69), students in this study strongly agree that interaction in online learning provides positive benefits to them. The result shows that the students agree that the presence of social interaction in their online learning encourages the instructor to provide a quick response (4.89), monitors students collaboration with others and encourage active participation (4.86), provide regular feedback (4.70), and ask questions (4.68), provide positive and supportive comments (4.67) and guidelines (4.65), actively participate (4.54), encourages students to share their problems (4.53) and monitor students interaction (4.51).
Table 3: Students’ perception of perceived benefits of social interaction in online learning between students and course instructor.

<table>
<thead>
<tr>
<th>Perceived Benefits</th>
<th>N</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>In online learning, the instructor promptly responds to students’ requests.</td>
<td>57</td>
<td>4.89</td>
<td>0.920</td>
</tr>
<tr>
<td>In online learning, the instructor monitors group collaboration</td>
<td>57</td>
<td>4.86</td>
<td>0.934</td>
</tr>
<tr>
<td>In online learning, if students' interaction is low, the students encourage students to participate actively in interaction by sending a note</td>
<td>57</td>
<td>4.86</td>
<td>0.854</td>
</tr>
<tr>
<td>In online learning, the instructor provides regular feedback on student interactions.</td>
<td>57</td>
<td>4.70</td>
<td>0.963</td>
</tr>
<tr>
<td>In online learning, the instructor encourages students to ask questions.</td>
<td>57</td>
<td>4.68</td>
<td>1.003</td>
</tr>
<tr>
<td>In online learning, the instructor provides positive and supportive comments to encourage students to continue participating in online interactions.</td>
<td>57</td>
<td>4.67</td>
<td>1.024</td>
</tr>
<tr>
<td>In online learning, the instructor provides guideline to assist students to become aware of the importance of online interaction</td>
<td>57</td>
<td>4.65</td>
<td>0.935</td>
</tr>
<tr>
<td>In online learning, the instructor actively participates in online discussion by replying, summarizing the discussion, and asking questions to students</td>
<td>57</td>
<td>4.54</td>
<td>0.946</td>
</tr>
<tr>
<td>In online learning, the instructor encourages students to share their problems.</td>
<td>57</td>
<td>4.53</td>
<td>0.908</td>
</tr>
<tr>
<td>In online learning, the instructor monitors how the student interacts with each other.</td>
<td>57</td>
<td>4.51</td>
<td>1.088</td>
</tr>
<tr>
<td>Overall mean value</td>
<td></td>
<td>4.69</td>
<td></td>
</tr>
</tbody>
</table>

Based on the study’s results, it shows that social interaction between students and instructors was ranked higher than interaction among the students in online learning. This suggests that the student perceived more satisfied to interact with the course instructor online as the students are aware of the presence of social interaction in their online classes. The result is somewhat consistent with findings by (Harasim et.al., 1995; Kang and Im., 2013; Kuo et al., 2014; Alqurashi, 2019). All studies provide evidence that shows a social interaction during online learning is the crucial element for gaining positive learning outcomes. Also, student-instructor interactions accounted for a large portion of both students' perceived learning and course satisfaction. And among the indicating reason is that social bonding influences and cognitive benefits for learning. The students chose online learning as a medium of their interaction the with course instructor due to quick response and effective monitoring. Other than that, the course instructor is always encouraged the student to actively participate and receive regular and positive feedback and guidelines through sharing problems and monitoring students’ interaction. This would them to work at their own pace. As a consequence, Alqurashi (2019) includes the element of socialization, instructor feedback, sharing and discussing ideas, group activities, and content-related interaction in order to
improve student satisfaction with online learning. This implies that the student-course instructor is not a passive participant during interaction it would affect the students' learning outcome (Mehall, 2020).

Although many studies identified that online learning provides advantages as equal to offline learning. However, in terms social interaction produces different results. For example, Eom et al (2006); Kang and Im (2013) emphasized no empirical association between social interaction and learning outcomes. Whilst, Hew, Cheung & Ng, (2010) find that students' participation was exceedingly low when in online conversations. Therefore, course instructors would experience a challenging task, particularly in online classroom settings according to Lee & Choi (2011). The student might not feel comfortable interacting by way of online methods, or asking questions or seeking assistance from fellow online students even though they have experience with online learning. This could be dedicated to the study result where the mean value of interaction among the students in online learning is relatively low (Cho & Jonassen, 2009; Hrastinski, 2008).

Conclusion
Whilst online learning has turned out to be a popular approach during the pandemic crisis, but it was sudden and not fully planned. These results for a study focus to determine the effectiveness of online learning to promote social interaction among the students and their course instructor. In specific, the study attempts to examine the students’ perception of perceived benefits of social interaction in online learning as students are feeling socially isolated during the MCO. The study found that the students agree with the presence of an advantage for social interaction in their online learning, however, social interaction between student and course instructor was ranked higher than interaction among the fellow students. The result suggests that students perceive that social interaction with their instructor is more important for online learning when they are aware continuing learning online is more essential. As the study participants are selected among the final accounting students, so future research can focus on examining the study programs and various activities which can improve interaction in the online learning environment. From the side of course Instructors need to be innovative online learning activities that can foster students’ interaction with fellow students in the online class.

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approaches on students’ interactions during asynchronous online discussions. 


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