Abstract-By the year 2025, Millennials are growing up to 75% of the global workforce, their entrepreneurial mindset will likely shape the workplace in the coming years (Sox et al., 2014). Millennials assess entrepreneurship as an appealing life path. As a digital generation, Millennials are as well as familiar with the internet based business platform namely E-Marketplace. E-Marketplace are growing gradually, becoming the prominent players in several industries due to the economic efficiency, decrease the margin between price and cost, and ease complicated business transaction (Feldman, 2000). It has created favorable business opportunities for Millennials who are interested to choose entrepreneurs as their career path. However, there is limited study which specifically investigating the intention to use the E-Marketplace for business start-up among Millennials. Therefore, the focus in this study is to examine factors that influence the acceptance and use of E-Marketplace for business start-up. The conclusion of this research is partially, performance expectancy, social influence and facilitating condition have significant effect on the behavioral intention to use E-Marketplace for business start-up. Meanwhile, effort expectancy is insignificantly affecting the behavioral intention to use E-Marketplace for business start-up. Furthermore, simultaneously performance expectancy, effort expectancy, social influence and facilitating condition have significant effect on the behavioral intention to use E-Marketplace for business start-up.

Keywords: Performance Expectancy, Effort Expectancy, Social Influence, Facilitating Condition, E-Marketplace

I. INTRODUCTION

Millennials possess strong connection with internet characterized by the use and adaption of technology in their daily lives. This generation was born in emerging world of technology and accustomed with all forms of information technology. In Indonesia, as refer to the survey by the Indonesian Internet Services Provider Association (APJII), internet users in Indonesia was 54.7% of total population, whereby the highest composition fall between age 19-34 years old (49.52%).

By the year 2025, Millennials are growing up to 75% of the global workforce, their entrepreneurial mindset will likely shape the workplace in the coming years (Sox et al., 2014). Millennials assess entrepreneurship as an appealing life path. As a digital generation, Millennials are as well as familiar with the internet based business platform namely Electronic Marketplace (E-Marketplace). E-Marketplace are growing gradually, becoming the prominent players in several industries due to the economic efficiency, decrease the margin between price and cost, and ease complicated business transaction (Feldman, 2000). It has created favorable business opportunities for Millennials who are interested to choose entrepreneurs as their career path.

However, there is limited study which specifically investigating the intention to use the E-Marketplace for business start-up among Millennials. Previous study focused on the behavioral intention to use internet marketing among entrepreneur (Tan et al., 2013) rather than the E-Marketplace for business start-up. Therefore, the focus in this study is to examine factors that influence the acceptance and use of E-Marketplace for business start-up.

II. LITERATURE REVIEW

A. Unified Theory of Acceptance and Use of Technology (UTAUT)

Venkatesh et al. (2003) proposed the UTAUT and has become a frequent model applied by scholar to investigate the intention and use behavior toward technology (Chua et al., 2018; Tan et al., 2012; Abd Latif et al., 2011). The technology adoption by UTAUT theory is originated from theory of Diffusion Of Innovation (DOI), Social Cognitive Theory (SCT),
Theory of Planned Behavior (TPB) and The Theory of Technology Acceptance Model (TAM). Those theories create four key constructs. The four constructs include performance expectancy, effort expectancy, social expectancy and facilitating condition.

B. Performance Expectancy

Davis et al. (1989) posited that performance expectancy as the degree to which an individual believes that using a system will help him or her attain a good job performance. In this research context, performance expectancy can be stated as the extent to which of belief toward the availability of the E-Marketplace will enable an individual to reach several benefits like the escalation of productivity, saving the time and efficiency due to the availability and customization of information (Srihivasan et al., 2002). The study of Tan et al. (2012) found that performance expectancy has significant effect on the intention to the use of internet marketing for both Malaysians and South Koreans. Therefore, the following hypothesis are proposed:

$H_1$: Performance Expectancy has significant effect with the behavioral intention to use E-Marketplace for business start-up.

C. Effort Expectancy

Effort expectancy is the degree of ease associated with the use of a particular system (Venkatesh et al., 2003), known as an important factor in determining behavioral intention to use the technology (Park and Ohm, 2014). Venkatesh et al. (2003) stated that the length of experience in using the information system may affect the end-users’ perceptions and adoption intentions toward the system (Abd Latief et al., 2011). Based research conducted by Tan et al. (2012), the effort expectancy affects on the intention to the use of internet marketing for South Koreans.

$H_2$: Effort Expectancy has significant effect with the behavioral intention to use E-Marketplace for business start-up.

D. Social Influence

Chong (2013) posited that user’s behavioral intention in the study of mobile commerce can be determined through social influence. Martin and Herero (2012) and Venkatesh (2012) proposed that social influence can be described as the degree to which individual become aware that important people surrounding, whether family or friends, have a belief that she or he should use new technology. According to Chua et al. (2018), social influence has the strongest effect to determine the behavioral intention and use behavior towards social networking apps.

$H_3$: Social Influence has significant effect with the behavioral intention to use E-Marketplace for business start-up.

E. Facilitating Condition

Venkatesh et al. (2003) stated that facilitating condition can be referred as the degree to which a belief of individual that an organizational and technical infrastructure available in order to support the system. Facilitating condition embraces ease of access, searching and navigation (Siddiqui et al., 2003; Yang, 2010) and added by the appropriate guidance is available. Other important conditions such as prior knowledge, cost and other resources were linked to the behavioral intention (Ajzea, 1991; Taylor and Todd, 1995). Based on those reason, the following hypothesis is:

$H_4$: Facilitating Condition has significant effect with the behavioral intention to use E-Marketplace for business start-up.

F. Behavioral Intention to Use E-Marketplace for Business Start-Up

E-Marketplace can be interpreted as virtual information mediator attached in business network and supported by telecommunications, designed to allow many buyers and supplier for the information exchange and transaction accomplishment (Zwass, 1999). Behavioral intention in this study is defined as the users’ intention rather than the actual use of E-Marketplace. In fact, behavior intention is the intention to use E-Marketplace in the near future over the traditional business start-up. According to Saphero (1985); Krueger and Brazel (1994), an individual’s desire to pursue a given behavior and represent an individual’s commitment toward a specific behavior is a definition of intention. In this study, behavior intention refer as the degree to which Millennials plan to use E-Marketplace for business start-up.

III. METHODS

The type of this research is a case study located in University of Sumatera Utara. The population in this research is 894 students from Faculty of Economics and Business and Faculty of Public Health batch 2017 in University of Sumatera Utara that had already received entrepreneurship courses. All of the university students
can be categorized as Millennials, born from 1980-2000. By using Slovin Method, found 276 Millennials as samples. Below is the calculation of proportionate sample in the population.

**TABLE 1 SAMPLING PROPORTION**

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Population</th>
<th>Sample Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics and Business</td>
<td>598</td>
<td>( \frac{598}{894} \times 276 = 184 )</td>
</tr>
<tr>
<td>Public Health</td>
<td>296</td>
<td>( \frac{296}{894} \times 276 = 92 )</td>
</tr>
<tr>
<td>Total</td>
<td>894</td>
<td>276</td>
</tr>
</tbody>
</table>

Source: Processed Data (2019)

Then, simple random sampling performed for each stratum. This research used two types of data resources, which are: (1) Distribution of Questionnaires, and (2) Documentations Studies. Multiple linear regression analysis is used as data analysis technique to discover the influence of the independent variables, which are Performance Expectancy (X1), Effort Expectancy (X2), Social Influence (X3), and Facilitating Condition (X4) to the dependent variable that is Behavioral Intention to Use E-Marketplace for Business Start-Up (Y).

Definition of operational variables are Performance Expectancy is the belief that by using E-Marketplace will increase productivity, efficiency and time saving for business start-up. Effort Expectancy is the degree of ease of E-Marketplace usage for business start-up. Social Influence is the degree to which individual aware of others’ belief to use E-Marketplace for business start-up. Facilitating Condition is the belief that organizational and technical structure of E-Marketplace available. Behavioral Intention is user’s intention to use E-Marketplace for business start-up.

**TABLE 2 VALIDITY TEST**

<table>
<thead>
<tr>
<th>Scale Mean if Item Deleted</th>
<th>Scale Variance if Item Deleted</th>
<th>Corrected Item-Total Correlation</th>
<th>Cronbach’s Alpha if Item Deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>87.03</td>
<td>126.930</td>
<td>.621</td>
</tr>
<tr>
<td>Q2</td>
<td>87.13</td>
<td>129.154</td>
<td>.604</td>
</tr>
<tr>
<td>Q3</td>
<td>87.20</td>
<td>128.166</td>
<td>.633</td>
</tr>
<tr>
<td>Q4</td>
<td>87.27</td>
<td>127.651</td>
<td>.634</td>
</tr>
<tr>
<td>Q5</td>
<td>87.17</td>
<td>126.902</td>
<td>.590</td>
</tr>
<tr>
<td>Q6</td>
<td>87.27</td>
<td>124.271</td>
<td>.697</td>
</tr>
<tr>
<td>Q7</td>
<td>87.40</td>
<td>124.110</td>
<td>.725</td>
</tr>
<tr>
<td>Q8</td>
<td>87.37</td>
<td>122.723</td>
<td>.744</td>
</tr>
<tr>
<td>Q9</td>
<td>87.40</td>
<td>125.283</td>
<td>.780</td>
</tr>
<tr>
<td>Q10</td>
<td>87.43</td>
<td>123.564</td>
<td>.730</td>
</tr>
<tr>
<td>Q11</td>
<td>87.67</td>
<td>124.575</td>
<td>.659</td>
</tr>
<tr>
<td>Q12</td>
<td>87.93</td>
<td>125.789</td>
<td>.527</td>
</tr>
<tr>
<td>Q13</td>
<td>87.40</td>
<td>128.041</td>
<td>.470</td>
</tr>
</tbody>
</table>

**TABLE 3 THE RESULT OF MULTIPLE LINEAR REGRESSION ANALYSIS**

<table>
<thead>
<tr>
<th>No</th>
<th>Variables</th>
<th>Coefficients</th>
<th>t-Values</th>
<th>Significant</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Constant</td>
<td>1.048</td>
<td>0.769</td>
<td>0.442</td>
<td>H1 Supported</td>
</tr>
<tr>
<td>2</td>
<td>Performance Expectancy (PE)</td>
<td>0.169</td>
<td>2.864</td>
<td>0.005</td>
<td>H2 Not Supported</td>
</tr>
<tr>
<td>3</td>
<td>Effort Expectancy (EE)</td>
<td>-0.33</td>
<td>-0.623</td>
<td>0.534</td>
<td>H3 Supported</td>
</tr>
<tr>
<td>4</td>
<td>Social Influence (SI)</td>
<td>0.285</td>
<td>4.364</td>
<td>0.000</td>
<td>H4 Supported</td>
</tr>
<tr>
<td>5</td>
<td>Facilitating Condition (FC)</td>
<td>0.264</td>
<td>5.833</td>
<td>0.000</td>
<td>H5 Supported</td>
</tr>
<tr>
<td>6</td>
<td>( R^2 ) = 0.311</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(F-Statistic = 30.543)</td>
<td></td>
<td>0.000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Processed Data (2019)
It is found the Multiple Regression Analysis Model is:

\[ Y = 1.048 + 169PE - 0.33EE + 0.285SI + 0.264FC + e \]

Table 5 shows the two predictor variables, partially Performance Expectancy (Sig. = 0.005 < 0.05), Social Influence (Sig. = 0.000 < 0.05) and Facilitating Condition (Sig. 0.000 < 0.05) are significantly affecting Behavior Intention to Use E-Marketplace for Business Start-Up. On the other hand, the remaining one variable, which is Effort Expectancy (Sig. = 0.534 > 0.05) is insignificantly contributing to Behavior Intention to Use E-Marketplace for Business Start-Up. The coefficient determination of this research is 0.311, which means that Performance Expectancy, Effort Expectancy, Social Influence and Facilitating Condition contributed 31.1% to explain Behavior Intention to Use E-Marketplace for Business Start-Up. While the remaining of 68.9% is explained by other variables.

**Discussion**

Partially, performance expectancy, social influence and facilitating condition have significant effect with the behavioral intention to use E-Marketplace for business start-up among university students. It supports the prior research (Tan et al., 2013) that the E-Marketplace will be useful for the future business start-up. The E-Marketplace will help Millennials to achieve the productivity, as well as the business performance. Moreover, this business platform will allow for the time saving and efficiency in business management. Hence, it is undoubtedly many students who are aware of these benefits of the E-Marketplace are interested to use E-Marketplace for their business start-up.

Result shows that effort expectancy is not significant influence on the intention to use E-Marketplace for business start-up. Effort expectancy can be defined as the individual experience towards the effortless level of a technology. If new technology demands high effort to learn and understand to use it, the users adoption intention of such technology would be lower (Curtis et al., 2010). The insignificant influence in this study may due to the unfamiliarity of E-Marketplace among Millennials. Millennials in Medan is at the beginner level and needs more effort to use E-Marketplace, as refers to the characteristics of respondents, the highest number of E-Marketplace use duration less than one year (30.1%), only 2.5% who have experience between 5.5 years until 6.5 years. Despite the insignificance of effort expectancy, simultaneously performance expectancy, effort expectancy, social influence and facilitating condition have significant effect on the behavioral intention to use E-Marketplace for business start-up.

Another important finding in this study is the social influence has a significant effect with the behavioral intention to use E-Marketplace for business start-up among Millennials. A possible explanation of this result that mostly young generation like Millennials have the tendency to be influenced by others. In addition to that, Indonesia has collectivist culture where the influence of society is very vital to effect the individual’s behavior. Millennials tend to use the same technology with their group of friends, families and colleagues. This result coherent with study of Taylor et al. (2011); Chong et al. (2012); and Tang et al. (2013) which found that social influence plays a significant influence in adoption of Internet Marketing, Mobile Application and Mobile Commerce.

Facilitating condition is found significantly related with the behavioral intention to use E-Marketplace for business start-up among Millennials, which confirms the studies on the adoption of internet marketing by Tan et al. (2013). It implies the appropriate guidance is available, conditions such as prior knowledge, cost and other resources are favorable to support the use of E-Marketing for business start-up.

**V. CONCLUSION**

The conclusion of this research is performance expectancy, social influence and facilitating condition have significant effect with the behavioral intention to use E-Marketplace for business start-up. Meanwhile, effort expectancy is insignificantly affecting the behavioral intention to use E-Marketplace for business start-up. Furthermore, simultaneously performance expectancy, effort expectancy, social influence and facilitating condition have significant effect on the behavioral intention to use E-Marketplace for business start-up.

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