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# Evaluation Information System Using UTAUT (Case Study: UMS Vocational School)

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Abstract—This admissions study evaluates users and the use of models for the Vocational School information system at the Muhammadiyah University of Surakarta with the UTAUT model by Venkatesh (2003) which has been modified by adding the System Service and Information Quality variables. The respondents are 100 students. From the results of the F and T tests, it is concluded that the variables Performance Expectance, Effort Expectance, Social Influence, System Service and Information Quality have an influence on Behavioral Intention, but only Social Influence and System Service variables have a significant partial effect on Behavioral Intention. In addition, another result is the variable Facilitating Condition and Behaviural Intention simultaneously affect Behavioral Usage. Validity, reliability and assumptions of classical test data show value as a measure of this analysis.

Keywords— UTAUT, Evaluation, Vocational School, Information System

#### I. INTRODUCTION

In the current era, the development of Information Technology (IT) is very fast and has become an inseparable part of everyday human life.(Rais et al.) SalaryThe development of Information Technology is very fast and cannot be separated from everyday human life. One of them is the education sector that takes advantage of the development of information technology to simplify the operational process, especially in tertiary institutions. Information systems can provide services to its users in various fields, for example the fields of education, transportation, politics etc.(Rais)The UMS Vocational School is a faculty under the Muhammadiyah University of Surakarta, founded on the background of the desire of the Muhammadiyah University of Surakarta to provide human resources who are ready to go down in the world of work. Providing education with a weight of 30% theory and 70% practice with a learning motto that is active, innovative, creative, effective, fun, joyful and strong. UMS Vocational School has a mission to be a reformer in producing skilled, character and Islamic graduates who are ready to work and be independent. UMS Vocational School uses information systems in carrying out business processes and academic processes in the UMS Vocational environment. The systems used in Vocational UMS include academic information systems, value information systems, alumni information systems and Field Practice information systems. This information system has been implemented on a website basis to make it easier for students to access. Based on internal data from the UMS Vocational School which was obtained during an interview with the Director of the UMS Vocational School, there were only about 30% of students who had access to the Information System website. In addition, TU officers often receive questions from students about study activities and requests for files that are already in the system. From the results of interviews conducted by researchers, researchers found a problem, namely the lack of interest in students in accessing the information system of the UMS Vocational School. This caused disruption of the academic process at the UMS Vocational School, including the information provided by the campus to

students not being conveyed thoroughly, the Administration still had to make and post announcements on the board, the Administration still often received questions from students. This is the basis of this research, so that this study will identify what factors influence the interest in student access to the UMS Vocational Information System. The theory used for this research is Unified Theory of Acceptance and Use of Technology (UTAUT). The reason the researcher chose the UTAUT method is because this method combines the features of the eight previous acceptance theories into one theory. This method is also considered to be more successful than the other eight theories in explaining up to 70% of user variants (Vankatesh et al. 2003). The UTAUT model is shown in the following figure 1:

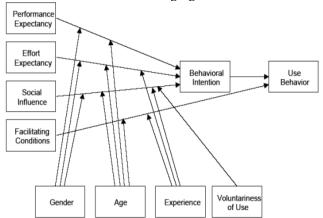


Figure. 1 UTAUT model (source: Venkatesh, et al, 2003)
Research using the UTAUT model has been carried out, including research by Hannix Sulistyowati (2017), which discusses the analysis of user acceptance of the application of the e-office system at Airlanga University with the UTAUT model. The research objective was to determine what factors influence the acceptance and use of the e-office system at Airlanga University. In addition, Luzi Dwi Oktaviana, Zanuar Rifa'I and Kurnia Utami (2017) examined the Analysis of the Application of the Online KRS System on Student Satisfaction at STIMIK Amikom Purwokerto using the UTAUT method. The goal is to find out the shortcomings of information systems and improve information systems to make them better. Based on the

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above research, the researcher conducted research by modifying the UTAUT model which was added with system service variables and information quality that had an effect on user intensity (Use Intention).4. Research conducted by I Gusti Nyoman Sedana and St. Wisnu Wijaya (2018) entitled "Application of the UTAUT Model to Understand the Acceptance and Use of the Learning Management System in Experential E-Learning Of Sanata Dharma University". In this study, it is concluded that the test results with the Spearman correlation show that performance expectancy, effort expectancy, influence, and facilitating conditions each have a positive and significant correlation (p-value <0.01) on behavioral intention. Likewise, behavioral intention has a positive and significant correlation with use behavior (p-value <0.05). Meanwhile, the facilitating condition does not have a significant correlation with the use behavior.

#### II. RESEARCH METHODS

The research was conducted on the UMS Vocational School Information System by distributing questionnaires to 100 students in the UMS Vocational School with a nonprobability sampling sample collection method. The questionnaire distributed certainly represents the variables in this study, namely performance expectancy, effort expectancy, social influence, facilitating conditions, system service, information quality and behavioral intention. From the results of the questionnaire collected is 100 for later processing. The results of the questionnaire were converted into quantitative data with a Likert scale which would later be tested and analyzed. The scale used is the five Likert scale with the following conditions:

- 1. Strongly Disagree (SD) with a value of 1
- 2. Disagree (D) with a value of 2
- 3. Neutral (N) with a value of 3
- 4. Agree (A) with a value of 4
- 5. Strongly Agree (SA) with a value of 5

The model used in this research is the modified UTAUT model by adding two variables of System Service and Information Quality. The following is the research framework along with an explanation of each component in Figure 2:

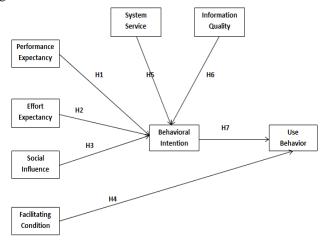


Figure 2. Research Concept Framework

- 1. Performance Expectancy (PE) is the level of individual confidence that using a system will help get performance gains on the job.
- 2. Effort expectancy (EE) is the level of ease associated with using a system.
- 3. Social influence (SI) is the level of the individual perceives the interests that are believed by other people who will influence using the new system.
- Facilitating conditions (FC) is the level of individuals believing that the organizational and technical infrastructure is in place to support the system.
- System Service (SS) used to measure the quality of service to its users.
- 6. Information Quality (IQ) is the output of information generated by the information system used
- 7. Behavioral Intention) (BI) is the level of desire of users in continuously utilizing existing systems.
- 8. Use Behavior (UB) is the intensity or frequency of users using information technology.

Researchers started this research with literature study from journals, books, research reports, papers and other literature related to the evaluation of information system implementation. Then carried out data and information collection by making observations in the UMS vocational school student information system, interviews with the director of the UMS vocational school and direct surveys to the location to find out conditions and problems which can later be identified as problem formulation and research objectives. In addition, a literature study was also carried out on previous research related to the evaluation of the implementation of information systems to obtain information about the methodology and research results, which will also be used to consider in determining the analysis model and research implementation to be carried out. In the identification and problem analysis stage, the researcher identified the data needs to be used, analyzed the UMS vocational school student information system in order to obtain the problem formulation and research objectives. Then draw conclusions about the formulation of the research model based on the previous stages, the research model that is considered appropriate, namely the UTAUT model by adding variables of system quality and information quality. Next is the stage of compiling and distributing questionnaires to respondents. However, before the questionnaires are distributed, they must first be compiled by taking the questionnaires from previous studies that have been tested and conducting discussions with the experts / research advisers. After the questionnaire is distributed and filled out by the respondents, the questionnaire data is collected and processed. After that the data will be analyzed by validity test, reliability test, and statistical test. This test is carried out with the SEM model to test what variables affect user interest in accessing the UMS Vocational school student information system. The result is a statistic that shows how much influence the independent and dependent variables have on the modified UTAUT model. The final result of this research is in the form of recommendations, conclusions and suggestions which are of course based on the results of data analysis.

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Furthermore, feedback will be requested from the Vocational Director whether he agrees or not before producing a final report. The research flow can be seen in Figure 3.

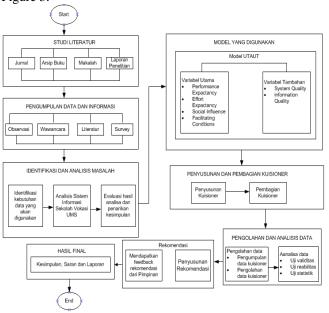


Figure 3.Research Flow

#### III. RESULT AND ANALYSIS

#### 3.1. UMS Vocational School Profile

Education and training at the Vocational School of Muhammadiyah University of Surakarta is carried out on campus, behind the village hall of Pabelan, Pabelan, Kartasura starting in the 2012/2013 academic year having two training programs, namely heavy equipment mechanics and manufacturing which are named Community College or Community Academy.

UMS vocational school was established based on UMS Chancellor's Decree no: 179 / IV / 2011 as of 30 November 2011 concerning the appointment of the Director of Industrial Services and Vocational Education Development and opened two study programs, namely heavy equipment mechanics and manufacturing. Heavy equipment mechanics collaborate with UT School Jakarta and manufactures in collaboration with Wosman Untag (Manufacturing Workshop of the Seventeen August University Surabaya). Education and training at the UMS Vocational School collaborates with the business world in the industrial world according to their fields. Students are taught theory in class, and workshops for 3 months and continued on the On The Job Training for 6 months in the industrial world. Education and training materials 30% theory and 70% practice, supported through the concept of mastery learning, contextual teaching and learning, active learning and learning is fun, learning by doing.

#### 3.2. UMS Vocational School Information System

The UMS Vocational School Information System is an information system built that contains information related to the UMS Vocational School. Information systems are used to help carry out academic processes and those in the

campus environment. The information system is implemented based on a website to make it easier for students to access. The main page of the UMS vocational website can be seen in Figure 4.



Figure 4.the main page of the ums vocational website

## 3.3. Preparation of research questionnaire

The preparation of the questionnaire in this study was taken from the variables in the modified UTAUT model by adding two variables: system quality and information quality. The aim is to determine the effect of performance expectancy, effort expectancy, social influence, system quality, information quality variables on behavioral intention and the effect of facilitating conditions, behavioral intention on use behavior in the UMS Vocational School information system. The scale used is a Likert scale ranging from 1 to 5 in the order of strongly disagree, disagree, neutral, agree and strongly agree.

Questionnaire items compiled as research instruments were compiled based on adaptations of questionnaire items that had been used in previous studies. After determining the original items taken from Jogiyanto (2007), the items were then adapted to the place of research and changed into Indonesian. The questionnaire items were conducted to obtain the validity of the items that make up the research construct. Preparation of research questionnaires based on the adaptation of items which are then adjusted to the research objectives

#### 3.4. Test the validity and reliability of the instrument

Validity and Reliability are very important in a data analysis. This is done to test a measuring instrument or research instrument (questionnaire) whether it is valid and reliable or not. The pilot study was conducted on 102 respondents. The results of the validity and reliability tests are as follows:

#### 1. validity test

The results of testing the validity of the instrument with SPSS version 25 for Windows, obtained the following results:

a. The data shows that the r-count value of Spearman rank correlation for all statements of the Performance

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https://ijcis.net/index.php/ijcis/index

Expectancy (PE) variable is greater than the rtable value. Thus, all items of the Performance Expectancy (PE) variable statement are declared valid and can be used as a data collection tool.

- b. The data shows that the r-count value of the Spearman rank correlation of all statements of the Effort Expectancy (EE) variable is greater than the value of rtable. Thus, all items in the Effort Expectancy (EE) variable statement are declared valid and can be used as a data collection tool.
- c. The data shows that the rount value of the Spearman rank correlation of all statements of the Social Influence (SI) variable is greater than the rtable value. Thus, all items of the Social Influence (SI) variable statement are declared valid and can be used as a data collection tool.

The data shows that the rount value of the Spearman rank correlation of all statements of the Facilitating Conditions (FC) variable is greater than the value of rtable. Thus, all statement items of the Facilitating Conditions (FC) variable are declared valid and can be used as a data collection tool.

The data shows that the rount value of the Spearman rank correlation of all statements of the System Service (SS) variable is greater than the rtable value. Thus, all items of the System Service (SS) variable statement are declared valid and can be used as a data collection tool.

The data shows that the rount value of the Spearman rank correlation of all statements of the Information Quality (IQ) variable is greater than the rtable value. Thus, all items of the Information Quality (IQ) variable statement are declared valid and can be used as a data collection tool.

The data shows that the rount value of the Spearman rank correlation for all statements of the Behavioral Intention (BI) variable is greater than the rtable value. Thus, all items of the Behavioral Intention (BI) variable statement are declared valid and can be used as a data collection tool.

The data shows that the rount value of the Spearman rank correlation of all statements of the Use Behavior (UB) variable is greater than the value of rtable. Thus, all items of the Use Behavior (UB) variable statement are declared valid and can be used as a data collection tool.

#### 2. Reliability test

To test the reliability of the questionnaire or questions used Cronbach alpha formula. A research questionnaire is declared reliable if the value of the reliability coefficient (ralpha) is greater than the value of rtable.

Tabel 1. Reliability Test

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Variabel	Cronbach's Alpha	Titik Kritis	Kesimpulan				
PE	0,943	0,6	Reliabel				
EE	0,877	0,6	Reliabel				
SI	0,827	0,6	Reliabel				
SS	0,950	0,6	Reliabel				
IQ	0,891	0,6	Reliabel				
FC	0,898	0,6	Reliabel				
BI	0,767	0,6	Reliabel				
UB	0,690	0,6	Reliabel				

Based on the table above, all variables have Cronbach's Alpha values greater than the critical point of 0.6 (Algifari,

2000). So it can be concluded that the variables PE, EE, SI, SS, IQ, FC, BI, and UB are reliable.

#### 3.5. Data Normality Test

#### 1. Univariate normality

If the results of the univariate normality test show that the p-value of chi square Skewness and Kurtosis is greater than 0.05, it means that each variable follows a normal distribution function. The results of the univariate normality test are shown in table 2 below:

Table 2 Univariate Normality Test Results

Test of Univariate Normality for Continuous Variables							
Skewness Kurtosis Skewness and Kurtosis							
Variable Z-Score P-Value Z-Score P-Value Chi-Square P-Value							
PE1	-0.127	0.899	0.413	0.680	0.186 0.	911	
PE2	0.059	0.953	-0.276	0.783	0.080 0.	961	
PE3	-0.631	0.528	0.000	1.000	0.399 0.	819	
PE4	-0.144	0.885	-0.384	0.701	0.168 0.	.919	
PE5	-0.263	0.792	0.067	0.947	0.074 0.	964	
PE6	-0.646	0.519	0.148	0.882	0.439 0.	803	
PE7	0.538	0.591	0.327	0.743	0.396 0.	820	
PE8	0.063	0.950	-0.293	0.769	0.090 0.	956	
EE1	0.082	0.935	-1.674	0.094	2.810 0.	245	
EE2	-0.268	0.788	-0.158	0.874	0.097 0.	.953	
EE3	0.050	0.960	0.016	0.987	0.003 0.	999	
EE4	0.166	0.868	-0.551	0.582	0.331 0.	848	
EE5	0.000	1.000	-1.061	0.288	1.127 0.	569	
SI1	-0.053	0.958	-0.120	0.904	0.017 0.9	991	
SI2	0.706	0.480	-1.597	0.110	3.049 0.2	218	

SI3 0.45	57 0.647	-2.137	0.033	4.775	0.092
SI4 -0.1	43 0.886	-1.306	0.192	1.725	0.422
SQ1 0.0	030 0.976	-0.824	0.410	0.679	0.712
SQ2 -0.3	366 0.714	0.137	0.891	0.153	0.926
SQ3 0.5	558 0.577	-0.035	0.972	0.313	0.855
SQ4 0.3	328 0.743	0.044	0.965	0.110	0.947
SQ5 0.4	122 0.673	-0.218	0.827	0.225	0.893

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https://ijcis.net/index.php/ijcis/index

SQ6	-0.186	0.852	-0.163	0.871	0.061	0.970
SQ7	0.048	0.961	-0.301	0.764	0.093	0.955
SQ8	0.174	0.862	-0.141	0.888	0.050	0.975
IQ1	-0.133	0.894	-0.306	0.759	0.112	0.946
IQ2	-1.000	0.317	0.317	0.751	1.100	0.577
IQ3	-0.153	0.878	-0.327	0.744	0.130	0.937
IQ4	-0.138	0.890	-0.627	0.530	0.413	0.814
IQ5	-0.331	0.741	0.228	0.820	0.161	0.922
IQ6	-0.007	0.995	0.217	0.828	0.047	0.977
FC1	0.591	0.555	0.050	0.960	0.351	0.839
FC2	0.019	0.984	-0.986	0.324	0.973	0.615
FC3	-0.162	0.871	-1.527	0.127	2.357	0.308
FC4	-0.023	0.982	-0.828	0.408	0.685	0.710
FC5	-0.092	0.927	-0.266	0.791	0.079	0.961
FC6	0.455	0.649	-0.026	0.979	0.208	0.901
BI1	-0.088	0.930	-0.610	0.542	0.379	0.827
BI2	-0.194	0.846	0.233	0.816	0.092	0.955
BI3	-0.226	0.821	-0.498	0.618	0.300	0.861
UB1	-0.260	0.795	-1.192	0.233	1.490	0.475
UB2	-0.202	0.840	-0.710	0.478	0.544	0.762

Based on the table above, it can be seen that all indicators have a p-value of chi square Skewness and Kurtosis greater than 0.05. This shows that univariately, the normality of the data is met.

# 2. Multivariate normality

If the results of the multivariate normality test show that the p-value of chi square Skewness and Kurtosis is greater than 0.05, it means that all variables follow the normal distribution function. The following are the results of the multivariate normality analysis shown in table 3:

Table 3. Multivariate Normality Test Results

Test of Multivariate Normality for Continuous Variables							
Skewness		Kurtosis	s Skev	Skewness and Kurtos			
Value Z-Score P-Value Value Z-Score P-Value Chi- Square P-Value							
848.434 68.073 0.0	7.046 000	0.000	1877.146	4.293	0.000		

Based on the table above, the p-value of chi square Skewness and Kurtosis obtained is 0.000. Because the value is lower than 0.05, it can be concluded that multivariate normality is not met.

Based on the limit central theom (central limit theorem) ie the larger the sample size, the statistics obtained will approach the normal distribution. The number of units of analysis in this study is n=102, it is considered to have fulfilled the central limit theorem. Thus the assumption of normality can be ignored.

# **3.6.** Evaluation of the UMS Vocational School Information System

## 1. Validity and Reliability Test

The validity and reliability tests are as expected, namely the data is suitable to be used as a measuring tool for analysis in the UMS Vocational School Information System Evaluation research.

# 2. Classic Assumption Test

The results of the Classical Assumption Test, namely Normality, Heteroscedasticity, Autocorrelation and Multicollinearity of the data are in accordance with the requirements as appropriate data to be used as prediction of the dependent variable BI by the predictor variables PE, EE, SI, SS and IQ.

#### 3. Multiple Regression Test Results

Prediction variables of UB by predictor variables of FC and BI. Has a Variance value of 66.3% for BI by predictors of PE, EE, SI, SS and IQ. Meanwhile, the variance value at 40.0% for UB by the predictors of FC and BI.

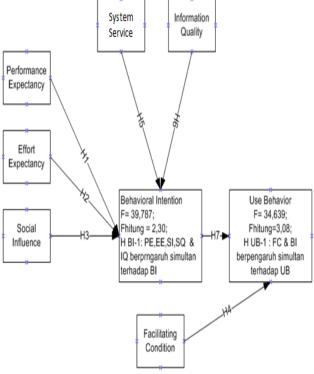


Figure 5. F Test Results

A variable is said to have good validity against a latent construct if the path coefficient value is greater than 0.5. A good construct reliability if: (1) the CR (Construct Reliability) value is more than 0.7, or (2) the VE value

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( Variance Extracted) is more than 0.5. The results of the CFA (Confirmatory Factor Analysis) test in this study are shown in Figure 7 below:

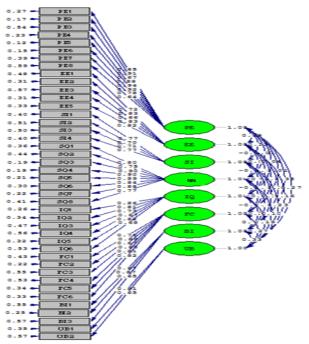


Figure 6. CFA

Structural Model Fitment Test is used to define the causal relationship between latent variables based on the construction of the supporting theory. The following is an estimate of the overall model based on the standardized coefficient value and the t-statistic value shown in Figure 7 below:

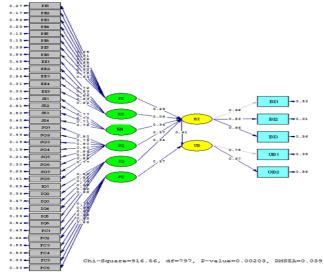


Figure 7. Standardized Coefficient Estimation Results
Research Hypothesis is a temporary answer to the
problem formulation that has been made in the research.
Partial testing is carried out to test whether each
independent variable has a significant effect on the
dependent variable, then the hypothesis is tested as follows:
Ho: the independent variable does not have a significant
positive effect on the dependent variable

Ha: the independent variable has a significant positive effect on the dependent variable. (Sugiono, 2009)

Test Criteria:

Accept Ha if t count 1.64 or -1.64

Accept Ho if t count < 1.64 or >-1.64

The following is an output image of the t-values estimation results shown in Figure 8 below:

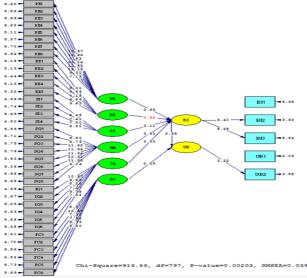


Figure 8. t-value

In Figure 5 it can be seen that the results of the F test conclude that the variables PE, EE, SI, SS and IQ simultaneously affect the BI variable. Besides that, it can be seen that the predictor variables FC and BI have a simultaneous effect on the bound prediction variable of UB. The t test results for the regression coefficient have given conclusions as in Figure 8 below:

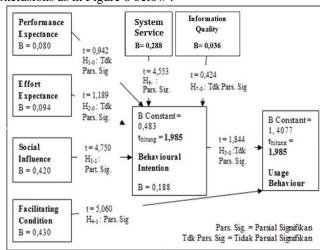


Figure 9. t test results

In Figure 9, the results can be seen partially that the variables PE, EE and IQ are not significant to the BI variable, while the SS and SI variables partially have a significant effect on the BI variable. In addition, the FC variable significantly affects the UB variable. Meanwhile, the BI variable does not partially have a significant effect on the UB variable.

The regression coefficients that can be drawn are as follows:

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https://ijcis.net/index.php/ijcis/index

[1] PE, EE, SI, SS and IQ against BI:

BI = 0.483 + 0.080 PE + 0.094 EE + 0.420 SI + 0.288SS + 0.036IQ ;

[2] FC and BI against UB:

UB = 1,4077 + 0,430FC + 0,188BI;

Note:

PE = Performance Expectance

EE = Effort Expectance

SI = Social Influence

SS = System Service

IQ = Information Quality

BI = Behavioural Intention

FC = Facilitating Condition

UB = Use Behaviour

From the regression coefficient, it can be concluded that the variable that has the greatest influence on BI is the SI variable followed by the SS variable. Meanwhile, the BI value is 0.483. In addition, the result shows that the big influence on UB variable is FC variable, while for UB variable value is 1.4077.

#### IV. CONCLUSION

The conclusion that the researchers found from this study is:

- Acceptance of the UMS Vocational School information system is simultaneously affected by all variables. The acceptance of the UMS Vocational information system is affected by the ability of the UMS Vocational School information system to improve business & performance, besides that the acceptance of the information system is also influenced by the quality of information, system services and social influence where important people have a positive effect on users in the acceptance of the UMS Vocational information system.
- 2. The level of acceptance of the UMS Vocational School information system is significantly influenced by Social Influence and System Service factors. Social Influence is more influential than System Service. From these results, it is important to use the social influence of UMS Vocational School officials, class leaders, relatives, influential colleagues or students such as the smartest student or highest GPA to influence or convince users that the use of information systems can improve business performance and job performance. In addition, a good level of service quality will also support the acceptance of this information system.
- 3. Behavioral Intentions to use this information system have no significant effect on (Use Behavior), while what has a significant effect is the Facilitating Conditions that support the use of the system.
  - The suggestions put forward by the author in this study:
- 1) In further research, the moderator factors are not ignored, namely Age, Gender, Experience and Voluntariness of Use.
- In further research carried out with other acceptance models besides UTAUT, for example UTAUT 2. Besides that, you can also combine or modify the UTAUT model with other models.

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