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# DETERMINING FACTORS OF BEHAVIORAL INTENTION TO USE DIGITAL PAYMENT QRIS AT TRADITIONAL MARKET IN PURWOKERTO

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## ABSTRACT

**Aims:** This research aims to identify variables that are determinants or factors that influence behavioral intentions to use QRIS (Quick Response Code Indonesian Standard) in the Purwokerto traditional market

**Study design:** The research population is the people of Purwokerto who transact in traditional markets. The sampling method uses accidental sampling and the sample size in this study was 100 respondents. Data was collected by distributing questionnaires both online and in person.

**Methodology:** The study used the SPSS 26 version analysis tool. The analytical method uses multiple linear regression analysis.

**Results:** The results of the analysis that performance expectations, social influence, and facilitating conditions variables have a significant effect on behavioral intention to use digital payment QRIS, while variable effort expectations have no significant effect on behavioral intention to use digital payment QRIS.

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*Keywords: UTAUT, QRIS, Behavior Intention to use*

## 1. INTRODUCTION (ARIAL, BOLD, 11 FONT, LEFT ALIGNED, CAPS)

The development of information technology has led to changes in people's behavior in conducting transactions, and payments have evolved to become non-cash. Digital payments are increasing because they are faster and more convenient. Bank Indonesia, as the financial policy authority, and ASPI (Indonesian Payment System Association), in pursuit of the Payment System 2025 vision and addressing the challenges of interconnected payment systems in 2019, formulated an initiative for a Quick Response Indonesian Standard (QRIS). This initiative was established through the issuance of Bank Indonesia Member of the Board of Governors Regulation No. 21/18/PADG/2019 (Bank Indonesia 2019). The implementation of this regulation commenced in January 2020, mandating that all non-cash payments be conducted through the QRIS system.

The implementation of digital payment of the QRIS (Quick Response Indonesian Standard) application in traditional markets in Purwokerto began in 2020. However, in practice, there have been challenges related to internet connectivity and the lack of literacy among the population regarding the use of QRIS applications in business transactions, leading to some reluctance in its adoption (Carera 2022). According to research findings (Novi Arianti et al. 2019), the acceptance of QR codes in business transactions has not been widespread and should be improved through better strategies and involvement of the banking sector to ensure the program functions as expected. The research suggests increasing the number of merchants offering QR code payment methods to help the public become more familiar with and accustomed to digital payment business transactions.

Digital payment systems can be considered relatively new, and therefore, providers of QRIS payment system services in Purwokerto need to understand the factors influencing

38 the intention to use it. Given this situation, there are obstacles associated with the willingness  
39 to use QRIS for payment transactions. The UTAUT (Unified Theory of Acceptance and Use  
40 of Technology) model, as introduced by (Venkatesh et al. 2019) , offers an explanation for  
41 the factors that influence the intention to adopt QRIS (Quick Response Code Information  
42 System) technology. This model highlights four primary independent variables that are  
43 interrelated and influence the readiness to embrace technological systems. These variables  
44 encompass performance expectancy, effort expectancy, social influence, and facilitating  
45 conditions.

46

## 47 **2. LITERATUR REVIEW**

48

### 49 ***Unified Theory of Technology Acceptance and use of Technology (UTAUT)"***

50 The UTAUT model, created by Venkatesh and colleagues in 2019 (Venkatesh et al. 2019),  
51 introduced four primary factors that affect the inclination to utilize technology: performance  
52 expectancy, effort expectancy, social influence, and facilitating conditions.

53

54 Behavioral intention refers to how strongly a user desires to adopt a system continuously  
55 or the subjective level of one's willingness to engage in a specific behavior (Venkatesh et  
56 al. 2019). Behavioral intention has two dimensions: the first dimension is the intention,  
57 which measures how much users intend to keep using the system for their activities. The  
58 second dimension is persistence, defined as users' intentions to continue using the system.

59 Performance Expectations:

60 In the UTAUT model, as defined by Venkatesh et al. (Venkatesh et al. 2019), performance  
61 expectations represent an individual's belief that using a system will help and improve their  
62 work effectiveness.

63 The use of technology systems is expected to expedite work processes and increase users'  
64 productivity in their tasks. Performance Expectations consist of three sub-variables:  
65 usefulness, speed, and productivity.

66

67 Effort Expectation:

68 Effort expectancy refers to the level of ease and complexity users experience when using a  
69 new system or technology. If the use of a technology system is easily understood and  
70 applied, it reduces the effort and time required. Conversely, if the use of the system is  
71 difficult, it necessitates a high level of effort to use it (Venkatesh et al. 2019) . Effort  
72 expectancy has two dimensions:

73 a) Complexity refers to how difficult it is to learn the technology.

74 b) Ease of use measures the level of ease users experience when using the technology  
75 application.

76 Social Influence:

77 Social influence, (Venkatesh et al. 2019), refers to the influence of family, friends, and  
78 trusted individuals who recommend the use of a particular system or technology based on  
79 their opinions. Social influence has two dimensions

80 a) Social factor relates to the social aspects influencing technology use.

81 b) Close referents' impact measures the level of influence exerted by individuals close to the  
82 user regarding the use of the technology.

83 Facilitating Conditions:

84 Facilitating conditions encompass the level of resources, backing from the organization, and  
85 the technical foundation offered by an entity to facilitate the utilization of a system, as

86 outlined in the work by Venkatesh and colleagues in 2019. These facilitating conditions  
87 consist of three distinct aspects:(Venkatesh et al. 2019)  
88 a) Resources relate to the availability of external resources like the internet and  
89 communication tools like smartphones that affect technology use.  
90 b) Information refers to the availability of external data and information sources when using  
91 technology.

#### 92 Performance Expectancy on Behavior Intention

93 *Performance expectancy is the belief of consumers that the use of a new system will simplify*  
94 *their tasks and enhance productivity (Venkatesh et al. 2019). The use of digital payment*  
95 *systems is expected to expedite transactions because they no longer require cash, thus*  
96 *accelerating money circulation and increasing transaction productivity. The greater the*  
97 *public's trust in the system's ability to simplify tasks and enhance productivity, the higher*  
98 *their interest in using the system.*  
99 *Previous research has found evidence that a higher level of performance expectancy leads*  
100 *to a greater intention to use electronic money (Hidayat and Riyadi 2018). Performance*  
101 *expectancy influences the behavior of QRIS-using SMEs in digital payments in Jambi City*  
102 *(Pangestu and Pasaribu 2022). Performance expectancy also affects the intention to use*  
103 *mobile banking(Chao 2019) . Research has shown that the high level of trust in technology*  
104 *systems to simplify and enhance performance will influence the intention to use QRIS.*

105 *Hypothesis 1 of this study is:*

106 *H1. Performance expectancy has effect on behavioral intention.*

#### 107 Effort expectancy on behavior Intention

108 The use of new technology systems requires efforts to understand their usage and  
109 comprehend the complexity of the benefits and efficiency of usage, as well as the ease of  
110 conducting payment transactions in businesses, both for purchasing products and selling  
111 products. The greater the ease of technology usage and the complexity of its utility, the  
112 higher the interest in using digital payment QRIS (Abbas et al. 2018; Chao 2019; Hidayat  
113 and Riyadi 2018; Pangestu and Pasaribu 2022).(Soviah 2019) The research hypothesis is  
114 H2 Effort expectations has effect on behavior intention.

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#### 116 Social Influence on Behavior Intention

117 Social influence is defined as an individual's level of trust in using something new because  
118 others have already adopted the system(Venkatesh et al. 2019). Users will share their  
119 experiences regarding how to use the system, its ease of use, and its benefits, and they will  
120 provide recommendations to those close to them, such as family and friends. The more that  
121 individuals in one's immediate social circle have used the system with the technology, the  
122 more it encourages interest in using that system. This is because they trust those closest to  
123 them who share their experiences with the use of the new system. The research findings  
124 (Audina et al. 2021; Hidayat and Riyadi 2018)(Lonardi and Legowo 2021; Soviah  
125 2019)suggest that the interest in using digital payment is influenced by the social  
126 environment. The research hypothesis is

127 H3. Social influence affects behavior intention.

#### 128 Facilitating conditions on Behavior Intention

129 Behavioral intention to use QRIS is indeed influenced by facilitating conditions, as outlined in  
130 the UTAUT model by Venkatesh et al(Venkatesh et al. 2019). These facilitating conditions  
131 encompass the availability of resources, support, and infrastructure that can ease the  
132 adoption and use of QRIS or any other technology.The use of digital payment systems  
133 requires the availability of supporting facilities such as internet access, smartphones, laptops  
134 to facilitate transactions, guidance on system usage, knowledge of the system's benefits,

135 and compatibility with other systems. The presence of close individuals ready to help in case  
 136 of difficulties with system usage also affects the interest in using it. Research results (Abbas  
 137 et al. 2018; Wijaya and Handriyantini 2020)(Soviah 2019)show that the availability of  
 138 facilities that support the use of technology systems, such as the availability of resources  
 139 (internet connectivity, IT features), compatibility of electronic devices with Shopee's sales  
 140 application, and the availability of usage guidelines or tutorials, serves as a reason for using  
 141 Shopee. The research hypothesis is  
 142 H4 Facilitating conditions effect on Behavior Intention.  
 143

144 **III METHODS**

145 This research falls under the category of causal-comparative research with a quantitative  
 146 approach. The study's population consists of the residents of Purwokerto who engage in  
 147 transactions at traditional markets. The number of samples is calculated based on  
 148 Roscou(Sugiyono 2010), namely a minimum of 10 times the number of variables. In this  
 149 study, 20 times the number of variables or  $5 \times 20 = 100$  respondents were used. Data was  
 150 collected through the distribution of questionnaires online using google form and directly to  
 151 respondents.

152 This research uses 4 independent variables which include performance expectancy, support  
 153 expectancy, social influence and facilitating conditions, and 1 dependent variable Behavioral  
 154 Intention to use. All variables are measured using a 1-5 Likert scale. With SPSS version 26,  
 155 multiple linear regression analysis was used to examine the data that had been gathered.  
 156

157 **IV . RESULT AND DISCUSSION**

158 **A. Respondence characteristic**

159 Based on the research questionnaire distributed online with total of respondents,  
 160 data on respondent characteristics based on gender, age, education were obtained,  
 161 as shown in Table 1  
 162

163 Table 1 “Characteristics Respondents”  
 164

<i>Respondent Characteristics</i>	Category	Number	Procentage
<i>Gender</i>	Female	65	65%
	Male	35	35%
<i>Age</i>	15-20	5	5%
	20-25	8	8%
	25-30	12	12%
	30-35	14	14%
	35-40	27	
	More than 40	34	27%
<i>Education</i>	Elementary School	10	10%
	Junior High School	15	15%
	Senior High school	45	45%
	Diploma	10	10%
	Bachelor's Degree	20	20%

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Based on table 1, it can be seen that the majority of respondents are women, this shows that visitors and traders at traditional markets are dominated by women. Respondents are predominantly over 40 years old because they prefer to shop at traditional markets to meet their daily household needs. Based on the respondent's education, the education level is dominated by senior high school, indicating that the respondent has no difficulty learning to use the digital payment system

B. Validity Test and Reliability test

Table 2 Validity Test

	R value
<i>Performance Expectation</i>	
<i>QRIS applications make it easier for me in buying and selling transactions</i>	0,861
<i>QRIS applications improve the efficiency/speed of my buying and selling transactions.</i>	0,937
<i>QRIS applications enhance my productivity in buying and selling.</i>	0,917
<i>QRIS applications enable me to get the ideal price.</i>	0,830
Aplikasi QRIS memungkinkan saya mendapat harga ideal	0,830
<i>Effort Expectancy</i>	
I find it easy to understand how to use QRIS applications.	0,917
I find it easy to become skilled in using QRIS applications.	0,915
I don't have difficulty when making transactions with QRIS.	0,898
I find it easy to learn how to operate payments with QRIS.	0,888
<i>Social Influence</i>	
<i>My families and friends influence me to use QRIS applicationns</i>	0,881
<i>People who serve as role models form suggest using QRIS Aplications</i>	0,904
<i>Friends and my families are trying to persuade me ti use QRIS Aplication</i>	0,886
<i>My social environment has been using QRIS application</i>	0,779
<i>Faciliatingcondisstions</i>	
The resources needed to use this application are already availabe	0,854
I have knowledge ababout how to use application QRIS	0,892

This application works well and is compatible with other systems.	0,905
I easily get assistant if I ecounter difficulties using to digital payment	0,653
<i>Behavior Intention</i>	
I intend to use the QRIS application in shopping	0,922
I am likely to use the QRIS application during transactions	0,911
I intend to utilize the QRIS application in my upcoming transaction.	0,942

176

177 The results of the validity test for all statement expressions in each variable indicate that the  
 178 Pearson correlation values at a significance level of 0.05 surpass the table correlation value,  
 179 which is 0.1654. Therefore, the statements in each variable can be considered to have good  
 180 validity and are suitable to be used as research instruments.

181 Table 3 Reliabilty Test

Variable	Cronsbach' Alpha Value
<i>"Performance Expectancy</i>	0.838
<i>Effort Expectancy</i>	0.841
<i>social influence</i>	0.928
<i>facilitating conditions</i>	0.928
<i>Behavior Intention"</i>	0.906

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183 The results of the reliability testing can be presented in a table, and the variables considered  
 184 in this research have a Cronbach's Alpha value more than 0.7. Therefore, it can be  
 185 concluded that all the variables are reliable.

186 C. Classic Assumption Tests

187 The results of the normality test using the Kolmogorov-Smirnov test statistic  
 188 produced a value of 0.099 at a significance level of 0.125, which exceeds the alpha  
 189 value of 0.05. This suggests that the data follows a normal distribution.

190 The results of the multicollinearity test indicate that there is no multicollinearity  
 191 present. This is supported by the tolerance values, which are greater than 0.1 for  
 192 performance expectancy (0.357), effort expectancy (0.329), social influence (0.430),  
 193 and facilitating conditions (0.347), as well as the VIF (Variance Inflation Factor)  
 194 values, which are less than 10 for performance expectancy (2.803), effort  
 195 expectancy (3.403), social influence (2.324), and facilitating conditions (2.883).

196

197 Furthermore, the results of the heteroscedasticity test using the Gletjser test  
 198 suggest that the regression equation is free from heteroskedasticity. This  
 199 conclusion is drawn from the fact that the independent variables do not have a

200 significant impact on the absolute residual when the significance level is higher  
201 than 0.05 (alpha), specifically with p-values of 0.811, 0.201, 0.341, and 0.249.

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204 D. Multiple Linear Regression Analysis

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206 Table 4 Multiple Linear Regression Test

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Variable	Koefisien Regression	t value	Signifikansi
constant	0,251		
<i>Performance Expectancy</i>	0,276	2,759	0,007
<i>Effort Expectancy</i>	0,118	1,077	0,284
<i>social influence</i>	0,281	3,119	0,002
<i>facilitating conditions</i>	0,299	2,688	0,008
Adjusted R Square	0,655	F Value	47,943
			0,000

208

209 The goodness of fit test, with a significance value of the F-test less than 0.05 and  
210 the F-statistic exceeding the required F-table value, is an indicator of the model's  
211 sufficiency. In Table 4, the calculated F-value is 47.943 with a significance level of  
212 0.000, which is less than 0.05. This indicates that the model is suitable for multiple  
213 linear regression analysis.

214

215 The adjusted coefficient of determination R-squared, which shows a value of 0.655,  
216 implies that 65.5% of the interest in using the model is determined by the variation  
217 in the variables of performance expectancy, effort expectancy, social influence, and  
218 facilitating conditions. The remaining 34.5% is influenced by other variables not  
219 included in this research model. This suggests that while these four variables play a  
220 significant role in explaining the intention to use QRIS, there are other factors not  
221 considered in this study that also contribute to the outcome.

222 Hypothesis Testing

223 - H1: The hypothesis that performance expectancy significantly influences Behavior  
224 Intention QRIS is accepted because the significance level of 0.007 is less than the  
225 alpha value of 0.05.

226 - H2: The hypothesis that effort expectancy significantly influences Behavior  
227 Intention QRIS is not accepted because the significance level of 0.284 is higher than  
228 the alpha value of 0.05.

229 - H3: The hypothesis that social influence significantly influences Behavior Intention  
230 QRIS is accepted because the significance level of 0.002 is less than the alpha value  
231 of 0.05.

232 - H4: The hypothesis that facilitating conditions significantly influence Behavior  
233 Intention QRIS is accepted because the significance level is 0.008.

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#### **Performance Expectancy effect on behavior Intention**

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The analysis of this research affirms that performance expectancy has a significant  
237 impact on the behavioral intention to use QRIS. Businesses and consumers alike are  
238 motivated to adopt QRIS because they expect that the use of this technology will  
239 streamline transaction processes, elevate performance, and enhance productivity  
240 during transactions. This finding underscores the importance of performance  
241 expectations as a driving factor in the adoption of QRIS. The use of QRIS is expected  
242 to expedite transactions, eliminate the need for consumers to carry cash, and allow  
243 merchants to receive funds directly in their savings accounts, eliminating the need  
244 for cash for change. This also helps reduce the risk of counterfeit money circulation  
245 and errors in giving change.

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These findings are consistent with previous research studies by (Abbas et al. 2018;  
247 Chao 2019; Hidayat and Riyadi 2018; Juningsih et al. 2020; Pangestu and Pasaribu  
248 2022; Sitinjaka and Koesrindartoto 2019), which have all demonstrated that  
249 performance expectancy plays a significant role in influencing the behavioral  
250 intention to use technology.

251

Acceptance and Use of Technology (UTAUT), which posits that technology usage  
252 intention is influenced by performance expectancy (Venkatesh et al., 2019), further  
253 reinforces the importance of performance expectancy in shaping intentions to use  
254 QRIS.

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#### **Effort Expectancy effect on Behavior Intention**

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Based on the results of hypothesis testing, it is evident that effort expectancy does  
257 not have a significant influence on the intention to use QRIS. This suggests that  
258 both businesses and consumers do not perceive a significant impact from factors  
259 such as the ease of learning how to use the application, the required skill level to  
260 use the application, and the effort needed to adopt a new technological system on  
261 their intention to use QRIS. This finding aligns with previous research studies by  
262 (Abbas et al. 2018; Audina et al. 2021; Juningsih et al. 2020) which have also found  
263 that Effort Expectancy does not significantly affect Behavior Intention.

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265

However, it's important to note that these results do not align with the Unified  
266 Theory of Acceptance and Use of Technology (UTAUT) (Venkatesh et al., 2019),  
267 which posits that Effort Expectancy does influence Behavior Intention. Additionally,  
268 these findings differ from other research studies conducted by (Chao 2019;  
269 Pangestu and Pasaribu 2022; Setyahadi and Dewi 2019; Sitinjaka and  
270 Koesrindartoto 2019; Wijaya and Handriyantini 2020), (Sovich 2019) which have  
271 found that effort expectancy has a significant impact on behavior intention.

272

273 These discrepancies highlight the complexity of technology adoption and the  
274 potential variations in how users perceive and evaluate the ease of using a  
275 particular technology. It's essential to consider the specific context and user  
276 characteristics when interpreting the influence of effort expectancy on behavioral  
277 intention in different studies.

278

### 279 **Social influence effect on Behavior Intention**

280 Based on the hypothesis testing, it is evident that social influence significantly  
281 affects behavior intention to use QRIS. This finding aligns with the Unified Theory of  
282 Acceptance and Use of Technology (UTAUT)(Venkatesh et al. 2019) , which suggests  
283 that behavior intention is influenced by the social environment. It can be explained  
284 that the social environment, including family, friends, and important individuals  
285 around businesses and consumers who have already used the application and  
286 shared their experiences regarding its advantages and benefits, influences the  
287 intention to use QRIS. Additionally, the fact that many people in their immediate  
288 social environment, such as where they live and work, have already adopted QRIS  
289 usage, also fosters  
290 interest in using the application.

291 These results are consistent with studies by (Audina et al. 2021; Handayani and  
292 Sudiana 2015; Sitinjaka and Koesrindartoto 2019), which have stated that social  
293 influence significantly affects the behavior intention to use.

### 294 **Facilitating conditions effect on Behavior Intension**

295 The hypothesis testing results demonstrate that facilitating conditions significantly  
296 influence thebehavior intention to use QRIS. This indicates that the availability of  
297 facilities to operate the system, such as internet connectivity, smartphones,  
298 knowledge to use the system, and the presence of individuals ready to assist in  
299 case of difficulties, affects the intention of both businesses and consumers to use  
300 the QRIS system. The research finding that adequate facilitating conditions do not  
301 significantly influence usage intention aligns with the Unified Theory of Acceptance  
302 and Use of Technology (UTAUT) b(Venkatesh et al. 2019), which suggests that  
303 facilitating conditions do indeed influence usage intention.

304 This result is also consistent with the findings of the research conducted by(Abbas  
305 et al. 2018)(Wijaya and Handriyantini 2020), which found that facilitating  
306 conditions have an impact on Behavioral Intention. Therefore, it reinforces the idea  
307 that the presence of appropriate facilitating conditions can positively influence  
308 users' intentions to adopt and use technology, such as QRIS in this context.

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### 310 **Conclusion and Recommendation**

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312 This study offers valuable evidence indicating that performance expectancy, social  
313 influence, and facilitating conditions have a significant impact on the behavioral

314 intention to use QRIS. However, it does not find a significant influence of effort  
315 expectancy on the intention to use QRIS.  
316 The results of this research contribute to a deeper understanding of the factors  
317 that influence the intention to use a new system, with a particular emphasis on  
318 performance expectancy, effort expectancy, social influence, and facilitating  
319 conditions. This knowledge is crucial for businesses, policymakers, and technology  
320 developers seeking to promote the adoption of QRIS and similar technologies, as it  
321 highlights which factors play a pivotal role in shaping users' intentions. It also  
322 underscores the importance of considering these factors in the design and  
323 implementation of such systems to encourage their successful adoption.  
324 By shedding light on the significance of these factors, the research provides  
325 valuable insights that can inform strategies for promoting the adoption and  
326 acceptance of new technological systems, such as QRIS. This understanding can be  
327 used to design more effective interventions, policies, and educational initiatives to  
328 encourage the use of such systems and enhance their benefits for both businesses  
329 and consumers. For the government and the banking sector, it is essential to  
330 intensify the promotion and awareness of QRIS usage among all segments of the  
331 population. This can involve collaboration with schools, universities, and local  
332 governments to achieve the vision of digitalizing payments by 2025. Increased  
333 efforts in educating and familiarizing the public with QRIS technology can  
334 contribute to its widespread adoption and usage, promoting a cashless society and  
335 advancing digital payment systems.  
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### 339 **CONSENT**

340 As per international standard or university standard, respondents' written consent has been  
341 collected and preserved by the author(s).

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### 344 **AUTHORS' CONTRIBUTIONS**

345 This work was carried out in collaboration among all authors. Authors read  
346 and approved the final manuscript.

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