
Determinants of Effectiveness Repayment Apps at P2P Lending Platform During Covid 19 Pandemic in Indonesia

Florentina Kurniasari¹, Prio Utomo²

Technology Management Department

^{1,2,3}Universitas Multimedia Nusantara

Indonesia

e-mail: florentina@umn.ac.id¹, prio.utomo@umn.ac.id²

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Abstract

The advance of technology development today brings an innovation in the financial industries all across the world, including in Indonesia. The financial technology continues to emerge from the sector of payment, investment and loans online or as we are familiar with the term P2P Lending platform. But, the growth of this business had a challenge when the Covid-19 Pandemic hit the country in the early 2020. The P2P lending platform experienced the first highest default rate due the difficulties of the SME's as its major customers' in repaying their loans. The objective of this research is to analyze the determinants of effectiveness repayment application on P2P platform in Indonesia. There were 133 respondents who were borrowers of the P2P lending platform was used as a sample. The data collection was further processed statistically using Structural Equation Method (SEM). The study showed that the repayment decision had significantly influenced perceived usefulness, perceived ease of use, perceived risk and information quality. Information quality itself had the highest influenced among others.



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Keywords: Perceived Usefulness, Perceived Ease of Use, Information Quality, Perceived Risks, Repayment Decision, Repayment Apps.

I. INTRODUCTION

The rapid advancement of knowledge and technology made changes in all aspects of businesses included in the financial system. Innovation in financial technology gave customers more alternatives in doing their financial transactions in more efficient and effective ways. The advance of information technology has encouraged the increase of innovation in many business and financial sectors. Financial technology is an innovative digital financial technology that offers financial services using information technology. As a new platform, financial technology offers more than simplifying financial transaction, minimizing cost and increasing financial services (Lee & Shin, 2018). Peer-to-Peer Lending (P2P lending) is a form of crowdfunding without involving any financial institution as the intermediaries (Cinca *et al.*, 2015) using an online platform (Ritter *et al.*, 2009). The P2P lending platform offers flexibility to both parties: lenders and borrowers (Meng, 2016). The lenders, as investors, expect a higher return from their investment in a P2P lending platform. Meanwhile, the borrowers can take advantage of the low transaction cost.

The financial technology is expected to fill the gap of financing needs and increase financial inclusion for Indonesians who were unbankable but had potential business. The financial technology could be seen as an alternative source of financing, especially for the ultra-micro segments to grow their business. The ultra-micro segments are characterized by their low daily income sales, doing business in densely populated housing areas and having simple self-owned trading business. In the year 2018, the total financial technology market in Indonesia reached US\$ 22 million with increasing rate at 16.3% yearly, in which lending occupied 31% of the total industry (Fintechnews.sg, 2018).

With the growing of P2P lending platforms, customers were enjoying to apply the loan in simple procedures without any obligations to provide collaterals. The data shown in the following table showed that in the three years in a row, there was an increasing growth of Small Medium Enterprise (SME's) in Indonesia, especially in Micro and Small segments, who were the major customers of the P2P lending platform.

Tabel 1

Percentage of SME's Credit in Indonesia for the year 2016-2018 (in %)

Year	Micro Segment Credit	Small Segment Credit
2016	24,50%	29,80%
2017	24,80%	29,90%
2018	25,40%	30,10%

Source: Bank Indonesia (2019)

Referred to the Ministry of Finance Regulation No. 22/ PMK.05/2017, micro financing was a financing facilities given to the micro business segment with the maximum loan plafond was ten million rupiahs and the maximum repayment was one year. Some of the SME's function in supporting economic growth including: created job opportunities; handled the poverty issues or income disparities, had contribution of 59.08% of GDP with the growth rate at 6,4% annually with the export volume reached at 14.06% from the total national export. Indonesian government committed to increase the financial inclusion by providing banking and financial access to all people. Therefore, the existence of the financial technology (FinTech) that could provide credit and loan facilities was expected to assist the government reached that goal. The next table showed the profile and growth of FinTech in Indonesia (in Rupiahs).

Tabel 2

Profile and FinTech Growth in Indonesia (as December 30th, 2019)

Description	Java Island	Outside Java Island
Accumulated Loan Disbursement (in Rupiahs)	75,71 Trillion	12,67 Trillion
Accumulated Borrower Account	16,94 Million	3,5 Million
Accumulated Lender Account	5,08 Hundred	1,04 Hundred
Outstanding Loan	13,52 Trillion	
Success Rate 90 Days	96,02%	
Number of Licensed FinTech	164	

Source: Otoritas Jasa Keuangan (2019)

Table 2 showed that there was a higher ability to pay from the borrower from both micro and small segments. The higher repayment ability rate (principal loan and interest) was mostly affected by the success of the borrower in doing their businesses using the loan from the P2P lending platform.

The financing industry faced a biggest challenge when the Coronavirus (Covid 19) was hit Indonesia in early 2020. The government took some strategic action to reduce the spread of the virus by issuing some rules and regulations such as: The Government

Regulation (PP No.21, 2020) and Presidential Instruction (Keppres No.11, 2020). The regulation gave the guidance for the government offices across the country to implement PSBB (Social Restriction in Large Scale). The PSBB rules prohibited the people from gathering in crowds, and the government limited the people's interaction in public, including: in school, malls, or in the religious places. This policy mostly hit the informal workers who were most of them worked in the SME's industries. The current data released by the Ministry of Cooperatives and SME's Republic of Indonesia showed that around 58.97 million SMEs had experienced some difficulties in production and marketing during the Covid-19 pandemic. The business problem faced by SMEs had a significant effect into the P2P lending platform. The update data release on May 30th, 2020 stated that there was a declining average of repayment performance until 90 days after the due date from 96.02% into 93.55%. The data showed that many borrowers of the P2P lending who are majority involved in the SMEs industry also had difficulties in running their business and in the same time had difficulties in repaying their loan at the committed time.

In response to this current situation, the Indonesian government released some policy to support the SMEs as the backbone of the Indonesian economy. The Indonesian Financial Services Authority released Regulation No. 11/POJK.03/2020 as the National Economic Stimulus as a Countercyclical Policy Impact of the Spread of Coronavirus Disease 2019). This regulation stated that the development of the spread of the Corona virus disease 2019 (COVID-19) has a direct or indirect impact on the performance and capacity of debtors, including micro, small and medium business (MSME), which could potentially disrupt banking performance and the stability of the financial system, which may further affect economic growth. Therefore, an economic stimulus policy is needed as a countercyclical impact of the spread of COVID-19. This regulation was valid for all financial sectors including formal banks, and also P2P lending platforms. Some policies to assist the SME's covered the reduction of the interest rate, extending the repayment deadline and financing restructuring adjusted with the borrower's abilities. The P2P lending must also follow this government regulation and in the same time initiate an innovative strategy such as introducing the Repayment Application (repayment apps) to assist the borrower in repaying their loan.

This study was expected to analyze the factors of effectiveness repayment apps at one of biggest P2P lending platforms (namely: MODALKU) during the Covid-10 pandemic in Indonesia.

II. LITERATURE REVIEW

1. Financial Technology (Fintech)

Financial technology is defined as mobile based technology to increase financial system efficiency (Kim et al., 2015) and a new type of information technology-based financial services (Lee & Shin, 2018). The advanced of digital technology was be able to change the current business model and in the same time create values by taking internet to do some changes (Walchek, 2015). The information technology was proven to change people's way of life since social interaction networking and relationship were interconnected with internet and technology (Lim, 2003). Fintech is an innovative business model in the financial services which was created from the rising of the sharing economy system, the loosening of government regulation (Blohm, 2013).

2. P2P Lending Platform

P2P lending is defined as all lending and borrowing activities among individuals using a technology platform without any intervention from a traditional financial institution (Lee & Shin, 2018; Ritter et al., 2009) and related to the internet-based financing platform (Stern et al., 2017). The P2P lending model involved borrowing and lending activities using digital technology platform (Meng, 2016), offered unbundling financial services (Chen, 2014) and acted as intermediary that connected the lenders and the borrowers (Schierz, 2010). The P2P lending platform analyzes data and information both from the lender and borrower to control the risk, set-up the maximum loan nominal amount, the loan duration and repayment scheme (Khosravi and Hussin, 2014).

3. Ultra-Micro Segment

Indonesia is famous for the huge microfinance sector, with over 50 million small medium enterprises (SMEs), representing some 97% of all enterprises and contributing no less than 30% of GDP growth in 2012 (Lim, 2003). However, many of these do not have adequate access to the bank financing they need to grow their businesses, particularly in rural areas. Most micro lending has been located in the urban areas of Java and Sumatra, where the Indonesian population is concentrated.

4. Technology Acceptance Model (TAM)

Technology Acceptance Model (TAM) was a framework that could be used to analyze which factors influence people in receiving the information and adopting the new technology. TAM introduced by Venkatesh (2009) to measure the individual ability to adopt and accept the

new technology. TAM concept focused more on two factors which referred to perceived usefulness dan perceived ease of use Venkatesh (2009). Later, this theory was further developed into Unified Theory of Acceptance and Use of Technology (Phonthanukit Thaworn, 2016). Some factors included the Perceived Usefulness, Perceived Ease of Use, Perceived Risk and Information Quality (Egbunike, et. Al, 2018).

5. Perceived usefulness

User assumption that the technology was able to assist in completing the works was used as a reference to explain the perceived usefulness concept (Davis, 1989). Meng (2016) stated that individuals would use the new technology only if they gave positive contribution to the working performances. Venkatesh (2009) explained that perceived usefulness was a main factor in individual usage intention in using the new technology. Davis (1989) in his theory mentioned that perceived usefulness could be used to measure how far a user believed in specific application to increase his work performances. There would be a positive action if the user gained some benefit while using that application (Gefen et al., 2003). Alarcon-del-Amo et al. (2014) explained that perceived usefulness had a positive effect into attitude and continuance intention (Liébana-Cabanillas et al., 2018; Chawla & Joshi, 2018; Lee et al., 2015; Shipps & Phillips (2013).

6. Perceived ease of use

Perceived ease of use referred to the ability in applying the technology (Venkatesh, 2009) at less effort by maximizing the feature in that application (Davis, 1989). If individuals believed that the usage of new technology applications was less effort and problem free, the customers were willing to adopt the technology easily (Lim, 2003). Gefen, et al. (2003) explained that perceived ease of use had direct and indirect effects in using the new application. Mwiya et al. (2017) and Alarcon-del-Amo et al. (2014) mentioned that ease of use had an influence on attitude. Perceived ease of use also had a positive influence for users in using the application (Liébana-Cabanillas F. et al., 2018; Lee et al., 2015; Shipps & Phillips, 2013).

7. Information Quality

Mwiya et al. (2017) stated that information quality could be measured with the quality content of the information system. Alarcon-del-Amo et al. (2014) said the information quality was the function related with the value of information output of a system. A good information quality would bring customer trust in using the technology. Shipps & Phillips (2013) mentioned

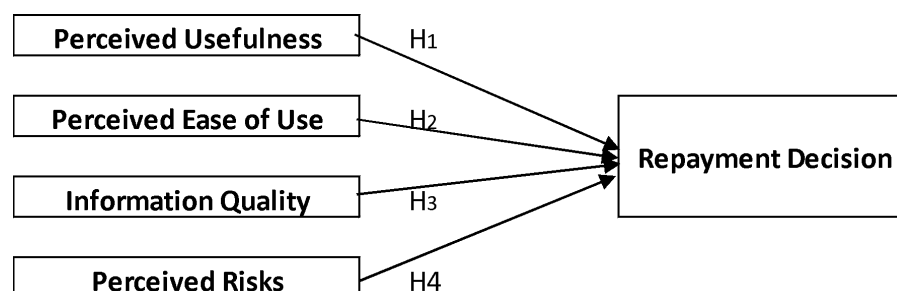
there were three main dimensions of information quality, including: accuracy, timeliness and relevance.

8. Perceived Risks

Each customer had an individual perception about all risks related to using the new technology Liébana-Cabanillas F. et al. (2018). Perceived risk defined as individual perception in anticipating risks associated with the products or services consumption Lim (2003). Shipp & Phillips (2013) added that perceived risk represented individual perception about the potential negative in the processing usage of products and services. Mwiya et al. (2017) stated that individuals are less interested in adopting higher risk platforms.

9. Repayment Decision

The borrower's decision in repaying the loan referred to the actual condition in applying the system (Davis,1989). Once the borrower feels comfortable in using the application, they will decide to use it. The actual technology usage referred to the familiarity or the frequency in using the application.



Source: Researcher Data Analysis (2020)

Figures 1

Research Theoretical Framework

Based on the proposed framework, the study was being able to develop some hypotheses as follows:

H₁: Perceived Usefulness has a positive effect on Repayment Decision for ultra-micro segments in Indonesia's P2P lending platforms. The perceived usefulness was the major factor in developing trust in acquiring and using the new technology which would assist the borrower in repaying the loans (Bachmann *et al.*, 2011).

H₂: Perceived Ease of Use has a positive effect on Repayment Decision for ultra-micro segments in Indonesia's P2P lending platforms. Eisingerich & Bell (2008) stated that the perceived ease of use created borrower trust if the borrower felt easy in using the new application.

H₃: Information Quality has an influence on Repayment Decision for ultra-micro segments in Indonesia's P2P lending platforms. Lenders in P2P lending platforms look for complete and clear information about their loan status, the interest rate, the duration of payment and any other issues. The smaller nominal of loanable funds shows the higher successful rate of loan repayment (Zhang *et al.*, 2017). The longer the duration of repayment, the higher the default rate (Zhang *et al.*, 2017). Higher interest rate gives higher return and higher risk associated with the default rate (Meng, 2016).

H₄: Perceived Risks has a positive influence on Repayment Decision for ultra-micro segments in Indonesia's P2P lending platforms.

Lower risk application would develop the customer trust easier (Chen & Han, 2012). Borrowers in P2P lending platforms look for safety protection, which is measured by sufficient security to protect the user, safety transactional information and secured financing transactions (Meng, 2016). The borrower trust was developing if the platform would be able to deliver the usefulness, the easiness of use about the platform and in the same time give a secure feeling or be less risky in accessing the new technology.

10. Repayment Application Technology (the Worm)

As one of the biggest P2P lending platforms in Indonesia, MODALKU started to create an innovative strategy during the Covid-19 pandemic. The company committed to support the government policy in issuing the economic stimulus for the SMEs and at the same time, assist the SME's as its major borrowers to be able in running the business and finally fulfil their financial obligation to repaying their loan. The features in the Repayment Apps covered some specific programs, such as:

1. **Credit Simulation:** With this feature, the borrowers were able to get information about the calculation and estimated loan that can be applied adjusted with the borrower capabilities.
2. **Repayment Submission:** was an application to extend the repayment period in the agreed specific time adjusted with the borrower's financial abilities.
3. **Profile:** borrowers were able to access the update profile and loan application data.
4. **History:** this feature would show all the information and history of loan credit extension and also the loan repayment approval status (approved or rejected).

All application data would be stored in the MODALKU database and could be accessed through Repayment website. The website would allow the P2P lending platform to monitor and manage the loan repayment scheme application and finally make a decision to approve or reject the application. The flow of repayment loan extension application process can be explained as follows:



Source: Kurniasari F, et.al (2020)

Figures 2
 The Flow of Repayment Loan Extension Application Process

III. RESEARCH METHODS

This research was a hypothesis testing study to describe the causality among the repayment decision as dependent variable with independent variables consisted of: perceived usefulness, perceived ease of use, information quality and perceived risks (Cooper & Schindler, 2014). This study distributed 113 respondents who were P2P lending platform (MODALKU) ultra-micro segments borrowers who resided in Jakarta areas and were familiar with the new Repayment Apps (=the Worm). As a quantitative research, the respondents were asked to answer close-ended questions with 1-5 Likert scale (Nunnally, 1978). The first part of the questionnaires consists with the demographic questions and the second part of the questionnaires consist with the research questions. The perceived usefulness (PU) variable was indicated by three indicators, namely: the apps would help the borrower in managing and keep track the loan (PU1), the Repayment apps was useful for the borrower (PU2) and the using the apps would make the borrower able to check the loan status quickly/rapid transaction (PU3) (Mwiya et al., 2017). Mwiya et al. (2017) mentioned that the perceived ease of use (PE) was reflected into three indicators, such as: the easiness to operate (PE1); had a flexibility to use (PE2) and the features are simple and understandable (PE3). The information quality variable (IQ) was explained by three indicators, including: the relevancy of content with the current situation (IQ1), the accuracy information (IQ2) and the complete or trusted information (IQ3) (Mwiya et al., 2017). Oliver (1993) mentioned that perceived risks (PR) could be measured into two indicators: there are some risks when using the apps (PR1) and the repayment apps had to ensure the data security (security) (PR2). The Repayment decision (RD) according to Bhattacharjee (2001) could be explained with the two indicators, such as: I plan to use the apps soon (RD1) and I am sure I will use the apps in repaying my loan (RD2). All the primary data further tested statistically using Structural Equation Model with Lisrel 8.80 software.

IV. RESULTS AND DISCUSSION

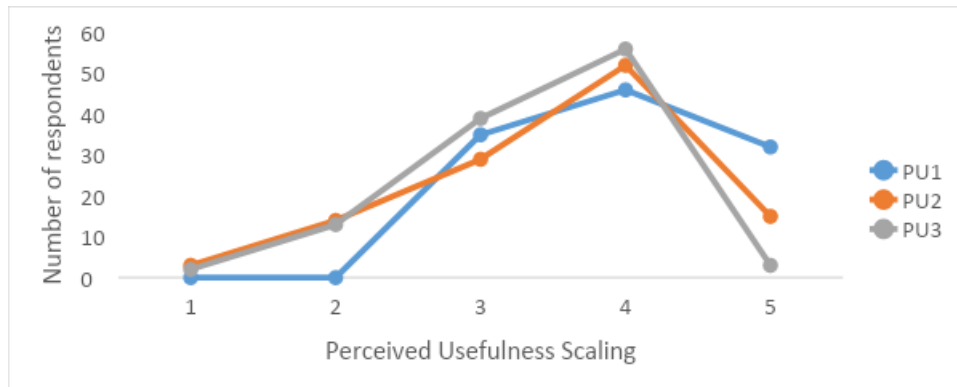
Demographic data explained the profile of the respondents; 73.5% respondents were female with the majority age being 30-39 years old (63.3%); 62% respondents had monthly income at between 1-4.9 million Rupiah. 99% respondents took SMEs loan financing with 71.30% loan duration period was less than a year with average loan nominal around five million Rupiahs (47.90%). Most of them (86%) found that Covid 19 had a significant effect in loan repayment and 33% were asking for temporary repayment holiday; 26.6% were looking for extension of repayment period; and 20.2% were asking for the flexibility of loan nominal repayment adjusted with their financial capabilities. The mean value analysis showed that for all independent variables, Information Quality (IQ) had the highest mean value of 4.30 and the Perceived Usefulness (PU) had the lowest mean value of 3.64

The average mean value of perceived usefulness variable as it stated in table 3 and further explained in figure 3, was 3.64, in which PU3 had the lowest mean value and PU1 had the highest mean value. This data showed that using the Repayment apps provided by the P2P lending platform would assist them in better managing and keeping track of their existing loan without necessary contact with the P2P lending platform office or sales agent.

Table 3
Mean Value of Perceived Usefulness Indicators

SCALE	1	2	3	4	5	MEAN
PU1	0	0	35	46	32	3.97
	0%	0%	31%	41%	28%	
PU2	3	14	29	52	15	3.55
	3%	12%	26%	46%	13%	
PU3	2	13	39	56	3	3.40
	2%	12%	35%	50%	3%	
Average						3.64

Source: Researcher Data Analysis (2020)



Source: Researcher Data Analysis (2020)

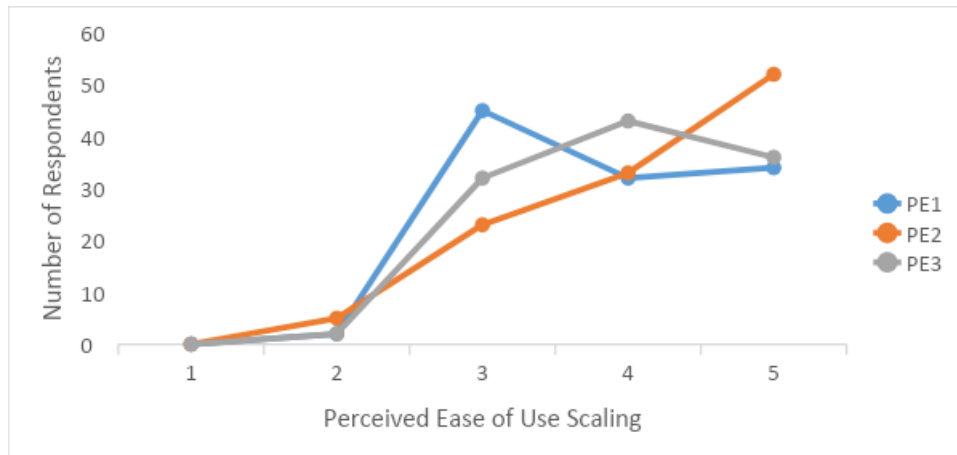
Figure 3
Perceived Usefulness Scaling

The average mean value of perceived ease of use variable in table 4 and further explained in the figure 4, was 4.01, in which PE2 had the greatest mean value and PE1 had the smallest mean value. This data showed that the majority of borrowers agreed that the repayment apps were flexible to use.

Table 4
Mean Value of Perceived Ease of Use Indicators

SCALE	1	2	3	4	5	MEAN
PE1	0	2	45	32	34	3.87
	0%	2%	40%	28%	30%	
PE2	0	5	23	33	52	4.17
	0%	4%	20%	29%	46%	
PE3	0	2	32	43	36	4.00
	2%	2%	28%	38%	32%	
Average						4.01

Source: Researcher Data Analysis (2020)



Source: Researcher Data Analysis (2020)

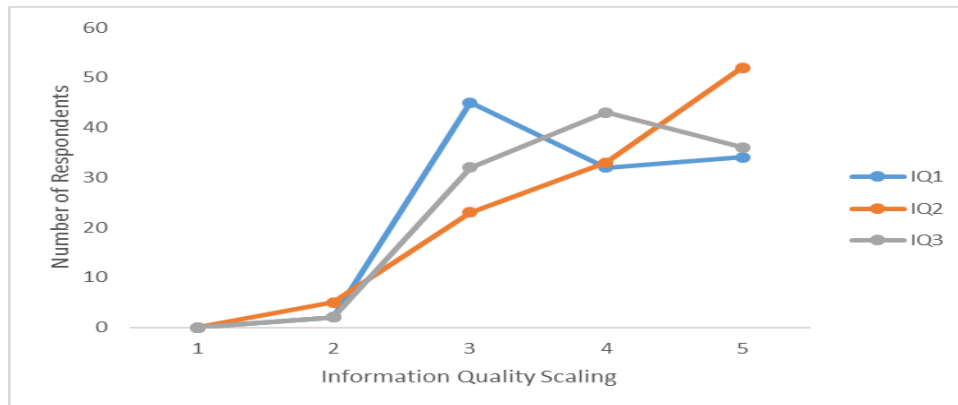
Figure 4
Perceived Ease of Use Scaling

Meanwhile, average mean value of information quality variable as it stated both in the table and figure 5, was 4.30, in which IQ1 had the highest mean value (4.33) and both IQ 2 and IQ 3 had the same mean value of 4.29. This data showed that the borrowers belief that all the information and its content provided in the repayment apps was relevance with the current situation. The information quality had the highest mean among all the independent variables used in this research.

Table 5
Mean Value of Information Quality Indicators

SCALE	1	2	3	4	5	MEAN
IQ1	1	3	15	33	61	4.33
	1%	3%	13%	29%	54%	
IQ2	0	2	12	50	49	4.29
	0%	2%	11%	44%	43%	
IQ3	0	0	12	56	45	4.29
	0%	0%	11%	50%	39%	
Average						4.30

Source: Researcher Data Analysis



Source: Researcher Data Analysis (2020)

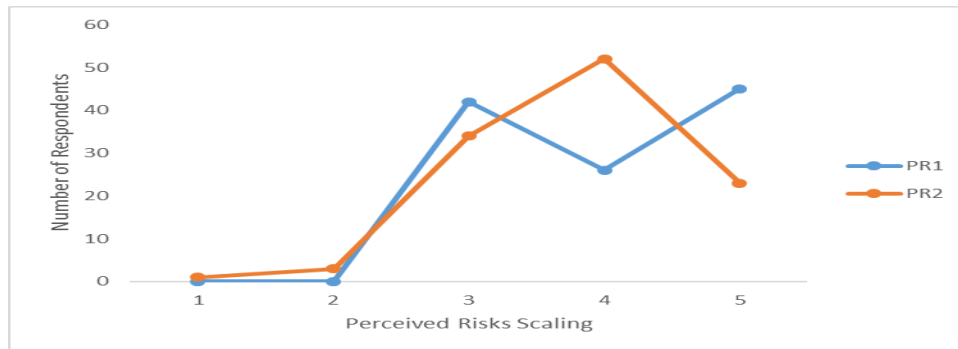
Figure 5
Information Quality Scaling

The PR1 had the greatest mean value and PR2 had the smallest mean value as perceived risks indicators. The average mean value of perceived risks variable as it stated both in the table and figure 6, was 3.92. It meant that the borrowers realized that there was some risk related with the security issues when using the repayment apps.

Table 6
Mean Value of Perceived Risks Indicators

SCALE	1	2	3	4	5	MEAN
PR1	0	0	42	26	45	4.03
	0%	0%	37%	23%	40%	
PR2	1	3	34	52	23	3.82
	1%	3%	30%	46%	20%	
Average						3.92

Source: Researcher Data Analysis (2020)



Source: Researcher Data Analysis (2020)

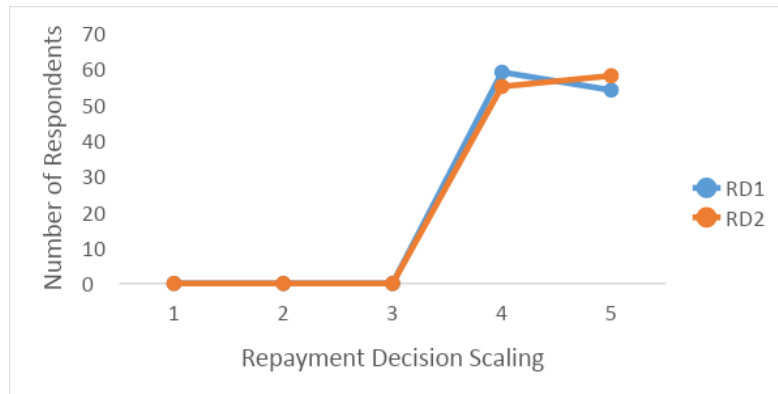
Figure 6
Perceived Risks Scaling

In the repayment decisions variables, RD1 indicator had the lowest mean value (4.48), and RD2 had the highest mean value of 4.51. Meanwhile the average mean value for both indicators was 4.50. The data showed that all borrowers strongly agree to use the repayment apps in managing and settling their loans in the P2P lending platform.

Table 7
Mean Value of Repayment Decision Indicators

SCALE	1	2	3	4	5	MEAN
RD1	0	0	0	59	54	4.48
	0%	0%	0%	52%	48%	
RD2	0	0	0	55	58	4.51
	0%	0%	0%	49%	51%	
Average						4.50

Source: Researcher Data Analysis (2020)



Source: Researcher Data Analysis (2020)

Figure 7
Repayment Decisions Scaling

Using Pearson correlation method and pre-test, it found that the critical value of $t > 0.671$, showed that all indicators had strong correlation. Reliability test using Cronbach's Alpha coefficient showed the number of 0.911, which means that this research is valid. The table 8 showed that only the AGFI indicator had value less than < 0.90 and there were perfect theories in this research. The table 9 showed the value of R Squared and Adjusted R Square for each variable:

Table 8
Result for Goodness for Fit Testing Model

GOF Indicator	EstimatedValue	Testing Result	Conclusion
Absolute Fit Value			
GFI	$GFI \geq 0.90$	0.90	Good Fit
RMSEA	$RMSEA < 0.08$	0.048	Good Fit
Incremental Fit Value			
NNFI	$NNFI > 0.90$	0.98	Good Fit
NFI	$NFI > 0.90$	0.97	Good Fit
AGFI	$AGFI > 0.90$	0.89	Marginal Fit
RFI	$RFI > 0.90$	0.96	Good Fit
IFI	$IFI > 0.90$	0.98	Good Fit

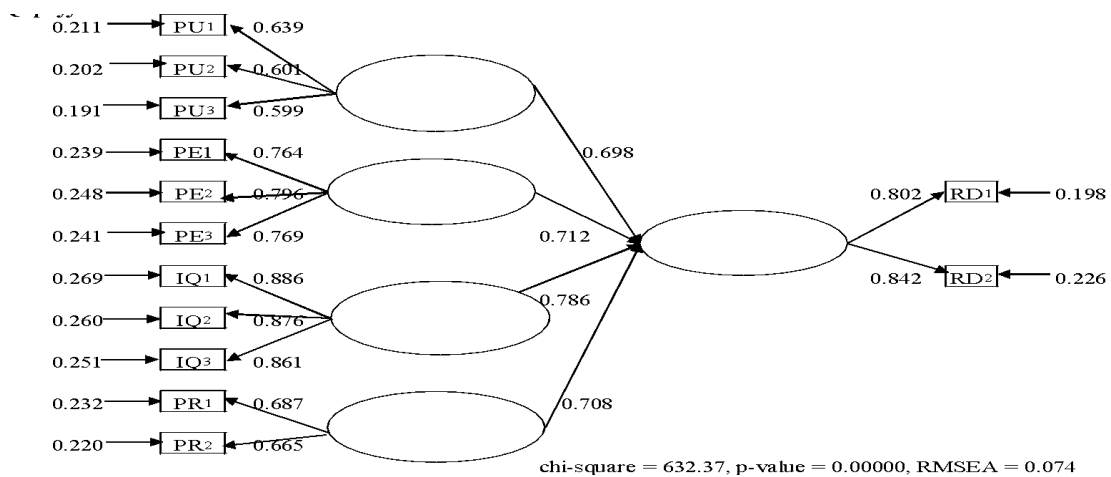
Source: Researcher Data Analysis (2020)

Table 9
R-Squared and Adjusted R-Square

Variables	R-Square	Adjusted R-Square
Perceived Usefulness	0.005	-0.005
Perceived Ease of Use	0.361	0.334
Information Quality	0.862	0.783
Perceived Risks-Free	0.040	0.031

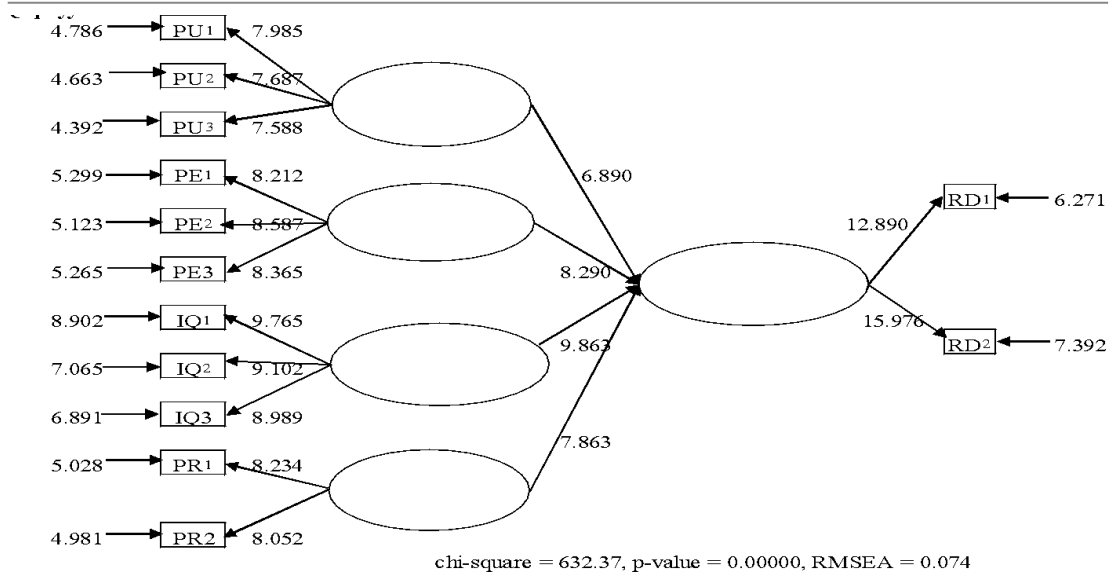
Source: Researcher Data Analysis (2020)

Meanwhile, the result of hypothesis testing using path diagram, could be explained as follow:



Source: Researcher Data Analysis (2020)

Figure 8
Structural Diagram (Standardized)



Source: Researcher Data Analysis (2020)

Figure 9
Structural Diagram (T-Value)

The result of hypotheses testing could be explained below:

Table 10
Result of Hypothesis Testing

Hypotheses	Variables	Coefficient Standard	t-Value	Statistical Conclusion
H ₁	PU → RD	0.698	6.890	Data Supported
H ₂	PE → RD	0.712	8.290	Data Supported
H ₃	IQ → RD	0.786	9.863	Data Supported
H ₄	PR → RD	0.708	7.863	Data Supported

The research able to create a structural equation model as follow:

$$RD = 0.698*PU + 0.712*PE + 0.786*IQ + 0.708*PR, \text{ Errorvar.} = 0.43, R^2 = 0.783$$

$$\begin{matrix} (0.040) & (0.050) & (0.063) & (0.048) \\ 6.890 & 8.290 & 9.863 & 7.863 \end{matrix}$$

The result of hypotheses testing could be explained further:

H₁: Perceived Usefulness had a positive effect on repayment decision, with the t-value > 2 (6.890), with the effect value of 0.698. The research showed that the repayment decision was influenced by the ability of the repayments apps in handling the transaction rapidly in more effective ways. This finding supported the previous research done by Lim (2003) who mentioned that borrowers preferred to get more alternative payment systems using the advanced technology during the Covid 19 pandemic. Even though the repayment apps could offer a more simple way in settling the financial transaction, customers still considered other important factors such as: security protection and data privacy.

H₂: Perceived Ease of Use had also a positive effect on repayment decision, with the t-value of 8.290 and the effect value of 0.712. The result supported the previous research that mentioned that perceived ease of use had a significant effect on using the apps Khosravi and Hussin (2014). The previous research showed that perceived ease of use had a significant effect on attitude (Liébana-Cabanillas et al., 2018; Mwiya et al., 2017; Alarcon-del-Amo et al., 2014). The less effort in using the repayment apps would encourage the borrower to use it more frequently (Shipps & Phillips, 2013). If users found difficulties in accessing the digital platform, it would also influence their reluctant behaviour in adapting the new technology (Lim, 2003). The result of this research also aligned with the previous study of Chen (2014) who explained that one key success factor for the P2P lending platform to attract the users was the ability to provide the user interface (UI) and user experience design (UX). Most borrowers were willing to use the repayment apps if they felt that the apps were easy to use, flexible, simple and understandable.

H₃: Information quality had the highest and significant influence on customer decision to repay the loan in Indonesia's P2P lending platforms, with the t-value of 9.863 and the effect value of 0.786. The borrower paid greater attention to all the information related with the current situation, including: the interest rate, the loan payment amount, the outstanding loan, the term and schedule of payment. The finding was supported by research by Chen *et al.* (2014) who explained that information quality had a positive and significant effect on lenders' trust in making lending decisions.

H₄: Perceived Risk had a significant influence on repayment decision with the t-value of 7.863 and the effect value of 0.708. The risk related with the repayment apps in P2P lending platform were security issues in using the apps. A higher safety protection level would increase the level of the repaying decision through a P2P lending platform. The result supported previous study that explained that the safety protection had a significant effect in the P2P lending platform business (Chen *et al.*, 2014; Meng, 2016). This finding aligned with the study of Lee et al. (2015) who mentioned that security guarantee was the major factor in

the online payment system. The repayment apps in P2P lending platforms are a new concept in Indonesia financial business and there is an urgency for the government to set-up a clear regulation to protect the interest of the borrowers in using the repayment apps especially during the Covid 19 pandemic. The finding also supported the research done by [2] who explained the secure platform would keep the secrecy of the borrowers.

VI. CONCLUSION

Information quality had the highest effect in influencing borrower decisions to repay their loan. Meanwhile, all the variables such as perceived usefulness, perceived ease of use and perceived security and risk free had a positive impact in developing the borrower decision in using the repayment apps. The repayment application platform should develop innovation that focuses more on user-friendly features and experiences using more understandable languages and symbols. Therefore, the researcher suggested that the Repayment apps had to provide interactive features with more User Experience (UX) or User Interface (UI) design. The P2P lending platform had to maintain long relationships with the borrowers and ensure that they were able to develop an integrative system that could protect data security of their customers.

The R-square of this research showed the value of 0.783. It meant that even if all the independent variables had a positive impact in borrower decision to repay the loan with 78.3% effect, there might be other variables that could be considered to make the repayment apps more successfully implemented, such as: social networking and customer knowledge ([Lim, 2003).

There're an urgency to encourage the support of the technology financial ecosystem, including the government in initiating a clear regulation to protect the stakeholders and at the same time had to deliver the highest standard of service quality to attain firm competitiveness and performance (Meng, 2014). The successful implementation of repayment apps as an alternative for the borrower in repaying their loans would bring more benefit to P2P lending platform itself, such as: lowering the default rate and in the same time support the government mission to running the SME's business back to normal again in a more speedy time.

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