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Factors Affecting Customer Satisfaction & Loyalty in Online Food Delivery Service during COVID-19 Pandemic in A Developing Country: An Extended Theory of Planned Behavior

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Abstract: Online food delivery service (OFDS) has been widely utilized during the new normal of COVID-19 pandemic especially in a developing country such as Indonesia. The purpose of this study was to determine factors influencing customer satisfaction & loyalty in OFDS during the new normal of COVID-19 pandemic in Indonesia by utilizing an extended Theory of Planned Behavior (TPB) approach. 253 respondents voluntarily participated and answered 65 questions. Structural equation modeling (SEM) indicated that Hedonic Motivation (HM) was found to have the highest effect on customer satisfaction, followed by Price (P), Information Quality (IQ), and Promotion (PRO). Interestingly, this study found out that usability factors such as Navigational Design (ND) and Perceived Ease of Use (PEOU) were not significant to customer satisfaction and loyalty in OFDS during the new normal of COVID-19. This study can be the theoretical foundation that could be very beneficial for OFDS investors, IT engineers, and even academicians. Finally, this study can be applied and extended to determine factors influencing customer satisfaction and loyalty in OFDS during the new normal of COVID-19 in other countries.

Keywords: food delivery, customer satisfaction, new normal, COVID-19, theory of planned behavior

1. Introduction

Online Food Delivery Service (OFDS) can be defined as any food delivery transaction with monetary value that is done through mobile handheld devise such as smartphone or personal digital assistants [1]. It is a common platform in 2020 due to the growth of internet users [2]. Academicians, marketing managers, and even retail industries are continuously engaged in the enhancement of OFDS, aiming to minimize the cost while also maximizing the number of users. One of the developing countries that heavily utilized OFDS in daily activities is Indonesia.

In Indonesia, OFDS has been consistently contributed to the sustainable revenue stream. It generated revenue approximately of 1.915 million USD in 2020 and forecasted to increase by 54.8% in 2024 [3]. Apart from the revenue stream, the penetration rate of OFDS apps in Indonesia also has been predicted to grow positively in the future. On 2024 OFDS will penetrate around 11% of the total food delivery. This penetration rate is described as how many customers who are using OFDS apps compared to the whole target market and the pattern is shown to be constantly increasing. The increasing pattern oc-

curs because there are more customers who became the new users of OFDS apps as time goes.

The new users of OFDS apps mainly attracted by the advantages provided by OFDS apps. These OFDS apps provide almost everything that customers need in buying food & beverages which can be done by only using a finger. Only by a finger, customers do not need to go out by themselves or make a call to the restaurant to order food. Customers are able to look for all nearby restaurants, see the menu, and select the food or beverages that they want [2]. Furthermore, OFDS apps nowadays have also been equipped with digital payment instruments to make purchasing steps even easier. Because of this new behavior, in order to attract customers and increase brand awareness, a lot of restaurants have been available on OFDS apps [4].

However, restaurant availability is not the only factor that influences customers' satisfaction in using OFDS apps. Other factors such as ease of use, navigational design, and performance expectancy will also influence customer satisfaction. For example, several studies have analyzed factors of consumers' initial app adoption during the early usage of OFDS apps [5-7]. As time goes, customers become more familiar with the apps and they become adapted to the apps without experiencing technical issues. Since technical issues are decreasing, it will be irrelevant and not enough to solely observe technology acceptance factors.

Additionally, several studies have already discussed behavioral factors that influence customer satisfaction and loyalty towards OFDS apps. Yeo et al. [8] analyzed convenience motivation, price, and time-saving orientation as well as hedonic motivation towards OFDS. In addition, Prabowo & Nugroho [9], also discussed prior online purchase experience to determine factors that influence attitude and behavioral intention to OFDS. Furthermore, Gunden et al. [10], also explained habit factors which influencing intention to use OFDS. Thus, OFDS apps has been an important topic in the past few years.

During COVID-19 pandemic, OFDS has been widely utilized especially in a developing country such as Indonesia. As a country which severely hit by the COVID-19 pandemic with more than 1,099,687 positive cases and 30,581 deaths as of February 3rd 2021 [11], some features in OFDS such as delivery service and non-cash transactions are very important [12]. Ali et al., [12] found that the moderating latent variable such as the COVID-19 pandemic had an influence on OFDS in Pakistan. Moreover, consumers are rarely to buy him/herself to avoid getting infected by the virus [12]. One of the most commonly utilized approaches to analyze this new behavior pattern is theory of planned behavior approach.

Previously, there were several studies utilizing TPB in the context of OFDS apps. Lau & ng. [4] utilized theory of planned behavior to identify several factors (Perceived Ease of Use, Time Saving Orientation, Convenience Motivation, and Privacy & Security) towards behavioral intention of OFDS apps. Furthermore, Yeo et al. [8] also utilized theory of g behavior to analyze factors (Hedonic Motivation, Prior Online Purchase, Time Saving Orientation, and Price Saving Orientation) influencing Convenience Motivation and Post Usage Usefulness to determine attitude towards and behavioral intention towards OFDS apps. Despite the availability of existing studies about customer satisfaction and loyalty towards OFDS apps [4, 8-10, 12], there is a significant lack of research on addressing OFDS during COVID-19 pandemic in Indonesia. A further application of TPB is important to be implemented in the context of OFDS during COVID-19 pandemic in Indonesia.

The purpose of this study is to determine factors influencing customer satisfaction and loyalty in OFDS measures among Indonesian during the new normal of COVID-19 pandemic by using an extended Theory of Planned Behavior (TPB) approach. This study is one of studies to analyze factors affecting customer satisfaction & loyalty towards OFDS apps during global COVID-19 pandemic. Finally, this study can be used and extended to measure the factors affecting customer satisfaction & loyalty towards OFDS apps in other countries in handling COVID-19 pandemic situations.

2. Conceptual Framework

Figure 1 represents the Theoretical Research Framework of the current study. The building block of this proposed framework is the Theory of Planned Behavior (TPB). Theory of planned behavior (TPB) is an extension of theory of reasoned action and consists of three independent predictors of an individual's intention [13]. Three independent predictors are attitude toward behaviour, subjective norm, and perceived behavioral control. An individual's intention is the main difference between theory of reasoned action and theory of planned behavior which is located in the center of the model framework. In addition, an individual's intention is used to identify factors which influence a behavior and indicate how hard people are willing to try to perform the behavior [14].

Based on Figure 1, there were 11 Exogenous latent variables which consist of Hedonic Motivation (HM), Convenience Motivation (CM), Perceived Ease of Use (PEOU), Navigational Design (ND), Information Quality (IQ), Privacy & Safety (P & S), Restaurant Credibility (RC), Perceived Severity (PSEV), Price, Safe Packaging (SP), and Promotion. In addition, Figure 1 also represents that there were 3 Endogenous latent Variable which consist of Intention to Use, Actual Use, and Satisfaction & Loyalty.

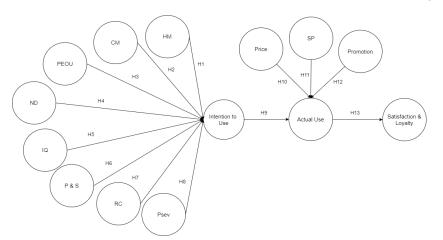


Figure 1. Theoretical Research Framework.

Hedonic Motivation can be translated into intrinsic motivation (e.g., happiness, fun and pleasure) which can be driven from using new products or services [15,16]. The role of hedonic motivation was found by Yeo et al. [8] and it shapes customers' convenience and usefulness of online food delivery. Okumus and Bilgihan found that intrinsic motivation influences customers' behavior to use Online Food Delivery Services [17]. Thus, we hypothesized the following:

H1. Hedonic Motivation had a significant direct effect on Intention to Use

In the urbanization era, people become busier with their own business and only have limited time to prepare food and dine in the restaurant [4]. Subsequently, people tend to use Online Food Delivery Services (OFDS) to save time and effort to go out. Convenience in time and effort are critical attributes to understand people's behavior towards OFDS [18]. People prefer to use OFDS apps to buy food & beverages because they can do the transaction at anytime and anywhere [19]. Furthermore, in this modern era, people find out that using OFDS is relatively easy and not time consuming. People can easily find out what they need through an intuitive navigational design of OFDS. Thus, we hypothesized the following:

- **H2.** Convenience Motivation had a significant direct effect on Intention to Use
- H3. Perceived ease of use had a significant direct effect on Intention to Use

H4. Navigational Design had a significant direct effect on Intention to Use

Information quality & structure of information in mobile apps influences the users to enhance their loyalty towards it [20]. It is plausible because the users are demanding the up to date and complete information that is given at the right of detail before they use it. Misleading information will have an effect on the users of Online Food Delivery Services (OFDS) apps and makes them reluctant to use it. Thus, we hypothesized the following:

H5. Information Quality had a significant direct effect on Intention to Use

Belanger et al. [21] defined privacy as accessing, copying, using, and destroying personal security information. These become the threat which creates potential incidents related to security of payments and storing information through online transactions. By being secured while using Online Food Delivery Services (OFDS), people will have an urge to use OFDS. Thus, we hypothesized the following:

H6. Privacy and Security had a significant direct effect on Intention to Use

Brand awareness of restaurants is very important for the users to use Online Food Delivery Services (OFDS). The users tend to buy from well-known brands because they provide standard quality of food and outlet availability that are nearby the user's location [22-25]. Completing the brand awareness, the users also pay attention to the number of ratings given to a particular restaurant in deciding to use OFDS. Subsequently, the following hypothesis was proposed:

H7. Restaurant Credibility had a significant direct effect on Intention to Use

Large-scale social restrictions during COVID-19 will cause closing in some restaurants that are not available to meet the safety standard. For the restaurants who are able to open, they need to implement the social distancing procedure to minimize the COVID -19. The method which is called social distancing is only to minimize the spread of the Covid-19 since there might be a chance to get infected by COVID -19. Although the restaurants already strictly followed the social distancing rules, there are still possibilities to get infected. Therefore, Using Online Food Delivery Services during COVID -19 is a good solution not to get infected from COVID -19. As a conclusion, we proposed the following hypotheses:

- H8. Perceived Severity of COVID-19 had a significant direct effect on Intention to Use
- H9. Intention to Use had a significant effect to Actual Use
- H10. Price had a significant direct effect on Actual Use

COVID-19 virus can be spread through droplets, airstreams, and physical contact [26]. These reasons are very likely to be the media of spreading COVID-19 in the case of food delivery services. It is very common that every food needs to be prepared by a human and it's impossible to eliminate human roles in preparing and delivering food to the customers. During the COVID-19 pandemic, in order to secure the customer's concerns about minimizing the spread of COVID-19 virus, a sealed packaging is a must. A sealed packaging at least can reduce the possibility of food & beverages to be contaminated by the air streams during the delivery process. Health information of the employees who prepare the food is sometimes embedded in the packaging to make customers feel more comfortable. If customers are comfortable in using Online Food Delivery Services (OFDS), it could lead to the actual use of using OFDS more in the future. Thus, we hypothesized the following:

H11. Safety Packaging had a significant direct effect on Actual Use

Promotion in Online Food Delivery Services (OFDS) will influence people to use OFDS. People will prefer using OFDS if OFDS is able to offer a cheaper price than the Restaurants' Price. On the other hand, OFDS needs to consider its terms and conditions when giving promo (e.g., Expired Date and Minimum of Payment). Short Expired date and High Minimum of Payment will directly affect people to prefer using Normal Delivery Services to OFDS. Therefore, to make people more interesting in using OFDS, promotion might be a good solution. The promotion that is offered must be reasonable (e.g., Long Expired Date and Low Minimum of Payment) to attract people to use OFDS. Thus, we hypothesized the following:

H12. Promotion had a significant direct effect on Actual Use

The experience economy is a condition where customers are willing to pay more if they enjoy the experiential value of products/services [27]. The experiential value which created through an interaction between the users and business providers. This interaction happens when people directly use or consume the products/services, in the current study, it lies on the actual use of OFDS. Actual use is very important for OFDS in order to attract loyal customers to consume the services more in the future. Subsequently, it will lead to customer satisfaction and loyalty. Thus, we hypothesized the following:

H13. Actual Use had a significant direct effect on Satisfaction and Loyalty

3. Methodology

3.1. Participants

The current study utilized Cross-Sectional Design. Due to the protocol of new normal of COVID-19 in Indonesia, an online questionnaire was distributed from September 15th to October 10th, 2020. A total of 253 Indonesian (15 – 55 years) answered the online questionnaire (Table 1) which has a total of 65 Questions and divided into 15 Segments (Table 2).

Table 1. Descriptive Statistics of Respondent	s.

Characteristics	Category	N	%
Gender	Male	119	47.04%
	Female	134	52.96%
Age	15 – 24	229	90.51%
	25 – 34	4	1.58%
	35 – 44	5	1.98%
	45 – 54	6	2.37%
	>=55	9	3.56%
Occupation	Students	203	80.24%
	Entrepreneur	19	7.51%
	Employee	28	11.07%
	Household wife/husband	3	1.19%
Average Expenditure / month	< 1 million rupiah	113	44.66%
	>1–3 million rupiah	109	43.08%
	>3 – 5 million rupiah	15	5.93%
	>5 – 7 million rupiah	11	4.35%

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	>7 – 9 million rupiah	0	0%
	>= 9 million rupiah	5	1.98%
Last Education	High School or equivalent	163	64.43%
	Undergraduate (S1)	79	31.23%
	Postgraduate (S2/S3)	6	2.37%
	Others	5	1.98%
Online Food Delivery Usage Rate /	1 – 5 times in a month	144	56.92%
month	6 – 10 times in a month	67	26.48%
	11 – 15 times in a month	22	8.70%
	16 – 20 times in a month	10	3.95%
	21 – 25 times in a month	2	0.79%
	26 – 30 times in a month	3	1.19%
	>= 30 times in a month	5	1.98%

3.2. Questionnaire

Following the theoretical framework explained before, we developed a self-administered questionnaire for this study to analyze factors that affect Online Food Delivery Services during COVID-19 situation in Indonesia (Table 2). The questionnaire consists of 14 Sections and 1 Introduction Section which are: (i) Demographic Information (Gender, Age, Occupation, Food Expenses / Month, Last Education, Number of OFDs Usage per month), (1) Convenience Motivation, (2) Perceived Ease Of Use, (3) Navigational Design, (4) Information Quality, (5) Privacy and Security, (6) Restaurant Credibility, (7) Perceived Severity, (8) Price, (9) Safe Packaging, (10) Promotion, (11) Hedonic Motivation, (12) Intention to Use, (13) Actual Use, (14) Satisfaction & Loyalty. All latent constructs included in the SEM were measured by using a 5-point Likert scale.

Table 2. Constructs and measurement items.

Construct	Items	Measures	References
Convenience	CM1	I can use OFD to make an	Lau & ng. [4]
Motivation		order anywhere and	
		anytime	
	CM2	I feel that using OFD can	Lau & ng. [4]
		reduce my travel effort to	
		buy food / beverages	
	CM3	I think that OFD helps me	Yeo et al. [8]; Prabowo &
		to save my time instead of	Nugroho [9]
		buying food / beverages	
		by myself	
Perceived Ease	PEOU1	I can easily find things	Suhartanto et al. [28]
of Use		that I need in OFD	
		application	
	PEOU2	I find that OFD has	
		informative button to	
		help me	
	PEOU3	I can complete a	
		transaction quickly	

	PEOU4	I feel that OFD	
		application in terms of	
		design & position are well	
		organized	
Navigational	ND1	I feel that Navigation Bar	Kapoor & Vij [2]
Design		in OFD app is helpful	
	ND2	I can easily jump into &	
		back to other pages in	
		OFD app	
	ND3	I think that dynamic filter	
		helps me to find	
		restaurant or dish that I	
		look for	
	ND4	I feel that keyword search	
		in OFD app can reduce	
		my effort	
	ND5	I think that order tracking	
		status is essential to	
		customers	
Navigational	ND6	I find that payment	Kapoor & Vij [2]
Design		interface in OFD is easy to	
		understand	
	ND7	OFD provides stage of	
		shopping cart and I can	
		easily go back to my	
		shopping cart	
Information	IQ1	I find that OFD provides	Kapoor & Vij [2]
Quality		me with up to date	
		information related to	
		restaurant, food and	
		discount	
	IQ2	I enjoy using OFD	Kapoor & Vij [2]
		because it gives me	
		believable information	
	IQ3	I think that OFD app	Kapoor & Vij [2]
	~	provides information at	1 ,
		the right of detail that I	
		need	
	IQ4	I feel that information in	Lee et al. [29]
	~	OFD app is in an	f · 1
		appropriate format	
Privacy &	PS1	I can feel secure because	Suhartanto et al. [27]

		payment instrument steps	
		before transaction occurs	
	PS2	I think that verification	
	102	steps prior to usage both	
		for user & driver can	
		reduce the risk	
	PS3	I think that OFD provider	
	1 55	should not give personal	
		information to other	
		agents	
Restaurant	RC1	I think that restaurant	
Credibility	Ref	rating in OFD app helps	
Creditality		me to decide in making	
		an order	
	RC2	I also concern with	
	IC2	number of rating related	Han et al. [30]
		to restaurant in making	Trait et al. [50]
		an order	
	RC3	I prefer to buy from	
	Res	restaurant that has	
		popularity or good brand awareness	
	RC4	I think that outlets	
	KC4		
		availability of restaurant	
		is influencing me to make an order	
Perceived	Psev1	I understand about social	
Severity	1 50 1	distancing regulations, so	
Severity		I choose to use OFD	
		instead of dining in or	
		buying it by myself	
	Psev2	I am afraid to dine in a	
	r sev 2	restaurant due to covid-19	
	Psev3	pandemic	
	rsevs	I feel that OFD helps me	
		to satisfy my craving for	
		food during covid-19	
	Da 4	pandemic	
	Psev4	I feel that OFD is a	
		solution to a limited seat	
		capacity in a restaurant	
		due to social distancing	
		regulations	

	D 5	- I (' I (I ()) OFD '	
	Psev5	I find that using OFD is	
		helpful to have a food	
		that I can't cook when I	
		am lazy to go out	
Price	P1	I think delivery price of	Ray & Bala [31]
		OFD services is	
		reasonable	
	P2	I think that tax price in	
		using OFD services is	
		reasonable	
	Р3	I feel that OFD services	
		overall price is affordable	
Safe	SP1	I think that food /	
packaging		beverages must be sealed	
		well especially during	
		covid-19 pandemic	
		situation	
	SP2	I also concern with	
		packaging material that	
		influences food	
		cleanliness	
	SP3	I find that health	
		information of people	
		involved in preparing &	
		delivering my order	
		ensures the food hygiene	
Promotion	Pro1	I feel that discount	Kapoor & Vij [2]
		provided encourages me	
		to use OFD services	
	Pro2	Terms & conditions of	
		promotion are important	
		promotion are important	
		•	
		to me before I use OFD services	
	Pro3	to me before I use OFD services	
	Pro3	to me before I use OFD services I think that promotion	
	Pro3	to me before I use OFD services I think that promotion expiry date influences me	
Hedonic		to me before I use OFD services I think that promotion expiry date influences me in making an order	Lee et al . [29]: Prabowo &
Hedonic Motivation	Pro3	to me before I use OFD services I think that promotion expiry date influences me in making an order I don't use OFD only for	Lee et al . [29]; Prabowo & Nugroho [9]
Hedonic Motivation	HM1	to me before I use OFD services I think that promotion expiry date influences me in making an order I don't use OFD only for fulfilling my basic needs	Lee et al . [29]; Prabowo & Nugroho [9]
		to me before I use OFD services I think that promotion expiry date influences me in making an order I don't use OFD only for fulfilling my basic needs I usually spend more	
	HM1	to me before I use OFD services I think that promotion expiry date influences me in making an order I don't use OFD only for fulfilling my basic needs I usually spend more using OFD rather than	
	HM1	to me before I use OFD services I think that promotion expiry date influences me in making an order I don't use OFD only for fulfilling my basic needs I usually spend more	

Hedonic Motivation	НМ3	I find that using OFD is very enjoyable to give food / beverages to someone else	Yeo et al. [8]; Prabowo & Nugroho [9]
Intention to	ITU1	I intend to continue using	Lee et al . [29]
Use		OFD in the future	
	ITU2	I will always try to use	
		OFD in my daily life	
	ITU3	I plan to continue to use	
		OFD frequently	
	ITU4	I have decided to use	
		OFD for purchasing food	
		/ beverages the next time	
Actual Use	AU1	When buying food, I	Suhartanto et al. [27]
		always use OFD app	
	AU2	I prefer to use OFD app	Rivera [32]
		rather than delivery	
		service owned by the	
		restaurant	
	AU3	I always check the	
		available food/restaurants	
	AU4	I always check the	
		notification & promotions	
Satisfaction &	SL1	I am satisfied with the	Alalwan [33]
Loyalty		way OFD app carried out	
		transaction	
	SL2	Overall, I was satisfied	Suhartanto et al. [27]
		with the OFD services	
	SL3	I always subscribe to OFD	
		promotions	
	SL4	I will use the OFD again	Cai & Leung [34]
		in the future	
	SL5	I will promote the OFD to	Zhao & Bacao [35]
		other people	
	SL6	I will share the	
		testimonial of using OFD	
		to the public	

3.3. Structural Equation Modelling

Structural Equation Modelling (SEM) is a powerful statistical technique used for identifying, estimating, and testing causal relationships between the latent variables [36,37]. AMOS 22 with Maximum Likelihood approach was utilized to derive the causal relationships of the proposed hypotheses construct.

Supporting the analysis of SEM model, six measurements were used to evaluate the model fit: Incremental Fit Index (IFI), Tucker Lewis Index (TLI), Comparative Fit Index

(CFI), Goodness of Fit Index (GFI), Adjusted Goodness of Fit Index (AGFI), and Root Mean Square Error of Approximation (RMSEA) [38-40]. A value of higher than 0.9 is suggested for IFI, TLI, and CFI is 0.9 or above to have a good model [36,38,41,42]. For GFI and AGFI, a value greater than 0.8 is the minimum requirement to indicate a good model [43]. Finally, the RMSEA value should be less than 0.07 to indicate a good model [36,44].

4. Results

Figure 2 describes the initial SEM to determine factors influencing customer satisfaction & loyalty in OFDS measures among Indonesian during the new normal of COVID-19 in Indonesia. According to the figure 2, several hypotheses were not significant: Convenience Motivation to Intention to Use (Hypothesis 2), Perceived Ease of Use to Intention to Use (Hypothesis 3), Navigational Design to Intention to Use (Hypothesis 4), Privacy & Security to Intention to Use (Hypothesis 6), Restaurant Credibility to Intention to Use (Hypothesis 7), Perceived Severity to Intention to Use (Hypothesis 8), and Safety Packaging to Actual Use (Hypothesis 11). Therefore, a revised SEM model was constructed by omitting those hypotheses. Furthermore, in order to enhance the model's fit, some modification indices were applied. Subsequently, the final SEM is presented in Figure 3.

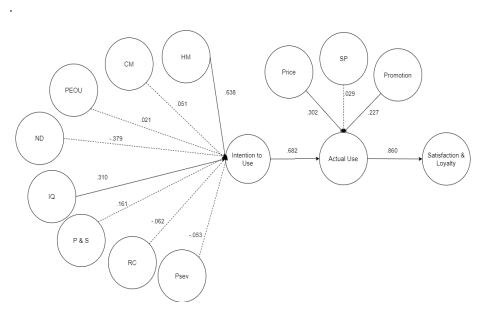


Figure 2. Initial result of SEM.

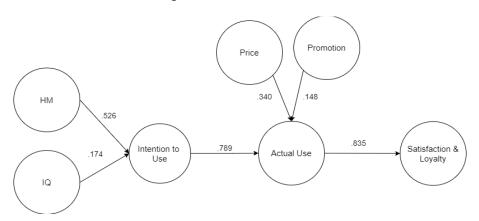


Figure 3. The Final SEM to determine factors affecting customer satisfaction & loyalty in OFDS among Indonesian during new normal of COVID-19 Pandemic.

Completing the final results, Table 3 demonstrates the descriptive statistics results of each indicator. Table 3 also reports the factor loadings both in the initial model (Figure 2)

and the final model (Figure 3). In addition, Table 4 describes the model fit of the final SEM. IFI, CFI, and TLI values were greater than the suggested cutoff of 0.90 which indicated that the final constructed model really represents observed data. Furthermore, the GFI and AGFI values were respectively 0.845 and 0.797 which indicate the good model. RMSEA value was 0.066 was also below the recommended value that indicates a good model.

Table 3. Descriptive Statistic Results.

Easts ::	Tr	Maara CtDan	CID	Factor L	oading
Factor	Item	Mean	StDev	Initial Model	Final Model
Commonion	CM1	4.52	0.63	0.59	-
Convenience Motivation	CM2	4.44	0.69	0.69	-
Motivation	CM3	4.24	0.84	0.58	-
	PEOU1	4.03	0.78	0.67	-
Perceived Ease of	PEOU2	4.08	0.75	0.75	-
Use	PEOU3	4.43	0.65	0.75	-
	PEOU4	4.02	0.77	0.72	-
	ND1	4.11	0.76	0.79	-
	ND2	4.06	0.77	0.74	-
NT : .: 1	ND3	4.25	0.74	0.56	-
Navigational	ND4	4.13	0.76	0.55	-
Design	ND5	4.57	0.58	0.41	-
	ND6	4.34	0.64	0.71	-
	ND7	4.15	0.79	0.55	-
Information	IQ1	4.12	0.79	0.66	0.66
	IQ2	3.98	0.79	0.80	0.82
Quality	IQ3	3.96	0.76	0.80	0.77
	IQ4	4.02	0.73	0.74	0.66
	PS1	4.09	0.82	0.64	-
Privacy &	PS2	3.95	0.87	0.82	-
Security	PS3	3.75	0.96	0.76	-
	RC1	4.12	0.80	0.78	-
Restaurant	RC2	4.01	0.91	0.74	-
Credility	RC3	4.02	0.88	0.56	-
	RC4	4.15	0.81	0.54	-
	PSEV1	4.12	0.84	0.64	-
	PSEV2	3.84	1.07	0.40	-
Perceived	PSEV3	4.18	0.78	0.70	-
Severity	PSEV4	4.22	0.79	0.80	-
	PSEV5	4.47	0.68	0.63	-
	P1	3.82	0.78	0.85	0.85
Price	P2	3.71	0.81	0.87	0.87
	Р3	3.90	0.75	0.84	0.85
Safety Packaging	SP1	4.56	0.61	0.76	

	SP2	4.45	0.67	0.80	-
	SP3	4.38	0.73	0.70	-
	PRO1	4.47	0.69	0.65	0.66
Promotion	PRO2	4.41	0.68	0.65	0.62
	PRO3	4.18	0.86	0.73	0.75
Hedonic	HM1	3.66	1.04	0.62	0.65
Motivation	HM2	3.46	1.10	0.64	0.67
Wiotivation	HM3	4.04	0.85	0.61	0.59
	ITU1	4.19	0.72	0.59	0.65
Intention to Use	ITU2	3.60	0.90	0.78	0.78
intention to Use	ITU3	3.07	1.01	0.83	0.85
	ITU4	3.45	0.86	0.80	0.77
	AU1	3.01	1.08	0.66	0.64
Actual Use	AU2	3.67	0.94	0.57	0.51
Actual Use	AU3	4.00	0.84	0.48	-
	AU4	3.42	1.10	0.46	-
	SL1	3.51	0.81	0.54	0.42
	SL2	3.50	0.79	0.64	0.54
Satisfaction &	SL3	3.93	0.67	0.67	0.71
Loyalty	SL4	3.32	1.02	0.66	0.68
	SL5	4.06	0.69	0.72	0.67
	SL6	4.09	0.65	0.72	0.69

Table 4. Construct Reliability and Validity

Factor	Cronbach's α	Average Variance Extracted (AVE)	Composite Reliability (CR)
Convenience Motivation	0.631	0.387	0.653
Perceived Ease of Use	0.808	0.523	0.814
Navigational Design	0.810	0.524	0.884
Information Quality	0.835	0.534	0.820
Privacy & Security	0.777	0.553	0.786
Restaurant Credility	0.744	0.440	0.754
Perceived Severity	0.751	0.419	0.776
Price	0.891	0.734	0.892
Safety Packaging	0.791	0.569	0.798
Promotion	0.717	0.461	0.718
Hedonic Motivation	0.661	0.407	0.672
Intention to Use	0.836	0.587	0.849
Actual Use	0.660	0.278	0.602
Satisfaction & Loyalty	0.817	0.393	0.791

Table 5. Model Fit.

Goodness of fit measures of SEM	Parameter Estimates	Minimum cut-off	Suggested by
Incremental Fit Index (IFI)	0.92	>0.90	Hair [38]
Tucker Lewis Index (TLI)	0.90	>0.90	Hu & Bentler [41]
Comparative Fit Index (CFI)	0.91	>0.90	Hair [38]
Goodness of Fit Index (GFI)	0.85	>0.80	Gefen et al. [43]
Adjusted Goodness of Fit Index (AGFI)	0.81	>0.80	Gefen et al. [43]
Root Mean Square Error (RMSEA)	0.066	<0.07	Steiger [44]

5. Discussion

The current study using an extended Theory of Planned Behavior (TPB) to determine factors influencing customers' satisfaction and loyalty in OFDS during the new normal of COVID-19 in Indonesia. SEM approach was utilized to identify interrelationship among latent variables: Hedonic Motivation (HM), Convenience Motivation (CM), Perceived Ease of Use (PEOU), Navigational Design (ND), Information Quality (IQ), Privacy and Security (P&S), Restaurant Credibility (RC), Perceived Severity (PSev), Intention to Use (ITU), Price (P), Promotion (Pro), Safe Packaging (SP), Actual Use (AU), and Satisfaction and Loyalty (SL).

SEM found that Hedonic Motivation (HM) had a significant direct effect on Intention to Use (ITU) (β =0.53, p= 0.001) which supports the claim of Yeo et al. [8]. HM can be described as an irrational purchasing pattern because it doesn't align with economic principles to cover basic needs. Instead, customers make a purchase in order to fulfill the pleasure and it is heavily influenced by the surroundings in which the user is. Moreover, HM strongly affects emotional arousal which triggers customers to make a purchase [9]. The respondents mostly felt that they utilized OFDS not only for fulfilling the basic needs, but they also perceived that as an enjoyable platform for buying food for someone else. In addition, the respondents also agreed that they spent more money while using OFDS rather than buying it directly from the stores due to the minimum purchase & promotion discount provided.

However, not only HM that influences the user to use OFDS, but also Information Quality (IQ). IQ can be described as the extension of a system which provides the user with useful and relevant information in a speedy and accurate manner [9]. The SEM indicated that IQ had a significant direct effect on ITU (β =0.17, p= 0.042). Based on the finding indicators, the up to date and detailed information related to restaurant, food, and even discount provided in an appropriate place were the key for IQ that influences customer's intention to use OFDS. Afterwards, it will lead to customer satisfaction and loyalty towards OFDS. The reason why IQ beta coefficient was not as high as HM could be because customers take it for granted. It means that IQ are basic features that OFDS must have, but not the main reason why people want to use OFDS. Although IQ was found not as strong as HM in influencing the users to use OFDS, but IQ was still important because no one wants to buy a product or use services that they don't know. However, people will not use OFDS when those basic expectations don't exist. It's logically correct that information related to the restaurant, menu, location, food price, and delivery price are a must in OFDS, so the users are fully informed before making a purchase.

Price was found to have a significant direct effect on actual use (β =0.34, p= 0.001). As discussed earlier, one of several pieces of information important for customers in making

a purchase is price. Price which includes food, tax & delivery price can determine the customers' willingness to pay and their perceptions toward OFDS. Customer perceptions toward OFDS can be measured by how much money they can save by using it. The more they can save or the lower price that customers need to pay, they tend to perceive that the related service is convenient to use [9]. Interestingly, SEM revealed that price has the second-largest effect after HM on the model framework. It's plausible since HM is the main factor that makes customers intended to start using OFDS and supported with reasonable price will bring forward into actual use. In contrast, though customers have an intention to use OFDS, if the price is too high, they will cancel the order using OFDS. In addition, promotion as a complement to price is also useful to make customers keep using OFDS.

OFDS provides many promotions such as: discount coupons and free delivery services to attract customers. Promotion is another useful method for cognitive evaluation of a product and purchasing decision [45]. The result of the study confirmed that promotion had a significant direct effect on actual use (β =0.15, p= 0.019). When OFDS provides a coupon discount and free delivery service, people will have more positive perceptions about the product value than without the promotion [46]. According to several studies [46,47], promotion is an important marketing tool for e-retailers to influence customers' purchasing decisions. Sun et al. [30] found that promotion will make customers switch to another brand. Apart from it, promotion is also effective to attract new customers and to make them an actual user [48]. However, customers also consider the terms and condition of discounts (e.g minimum purchase, discount percentage and expiry date) in OFDS before making a purchase.

As the customers start using OFDS, they become more familiar with the interface of OFDS. This new behavioral pattern makes the usability factor such as Navigational Design (ND) that used to be significant [2] in affecting the purchase/conversion using OFDS is no longer relevant with the current condition. Furthermore, this new trend was also supported by existing study [4] that stated Perceived Ease of Use had no significant direct effect on behavioral intention of OFDS. It is proven with the hypothesis 3 "Perceived Ease of Use had a significant direct effect on Intention to Use" that was proven to be insignificant in the SEM result (β =0.021, p= 0.933). These changes in customer behavior are logically correct since customers have spent a lot of time in using OFDS and already passed the learning phase moments when they encountered many technical problems.

5.1. Theoretical Contribution

This study contributes to several theoretical contributions to the existing literature of OFDS usage in Indonesia. Firstly, the contribution was to give a novelty about factors that affect the usage of OFDS especially during the new normal of COVID-19. During the new normal of COVID-19, there were additional factors that customers need to consider before ordering their food. These additional factors were modeled and analyzed using SEM (Structural Equation Modelling). According to Prabowo & Nugroho [9], SEM has the ability to recognize the relationship between constructed variables simultaneously and the results can be generalized into targeted populations. This justifies that the result of SEM Analysis is trustworthy and reliable.

Secondly, the contribution would be related to the theory that was utilized in this study. This study utilized and extended Theory of Planned Behavior (TPB) and it is implemented in a new context of COVID-19 pandemic in Indonesia. As compliant to Ajzen & Fishbein [13] and Ali et al., [12], this study carefully analyzed the customer's attitude, perceived behavioral control, and subjective norms through constructed exogenous latent variables. Likewise, these exogenous latent variables will influence customer's behavior towards OFDS.

5.2. Implications to practice

The findings from this study can be used to increase the number of people using OFDS in the future, but several aspects need to be considered. Interestingly, our findings

proved that Hedonic motivation (HM) was found to be the most important aspect. Thus, the OFDS developer needs to build a strong perception that using OFDS is enjoyable and interesting. In addition, marketers also need to instill a mindset that OFDS is a part of the user's lifestyle. In order to cultivate OFDS in the user's lifestyle, both traditional media (e.g., television, radio, newspapers) and social media (e.g., Facebook, Instagram, YouTube) should be used as a platform to advertise OFDS to the potential users [49,50].

Once advertisement issues are handled, OFDS developer is strongly suggested to focus on the price related to food, tax and delivery price in acquiring OFDS. Supporting the finding latent variables, Price (P) and Promotion (PRO) were important in influencing customer satisfaction and loyalty in OFDS. Having a collaboration with the restaurants is one way to create a proper price strategy. Thus, the OFDS developer together with the restaurant provider should set the food price in a reasonable amount and give a promotion regularly.

Furthermore, usability factors were proven not to be significant in influencing the customer satisfaction and loyalty in OFDS during the new normal of COVID-19 in Indonesia. Therefore, OFDS developer should not invest the resources mainly in improving the quality of usability such as Navigational Design (ND) and Perceived Ease of Use (PEOU). In contrast, the OFDS developers must put emphasis on deciding the reasonable price, giving discounts and promotions regularly to trigger the customers to use OFDS more. As a complement, the OFDS developer must also provide the customers with believable, detailed, and structured Information Quality (IQ) in an appropriate format. Therefore, customers will have less hesitation in using OFDS and in return increasing their satisfaction and loyalty in OFDS.

5.3. Limitations & Future research

Despite the significant contributions, this study would like to acknowledge several limitations while generalizing the current study's significant findings. First, most of the respondents were coming from low-sized income or allowance. Moreover, 90.51% of the sample was in the 15-24 age segment. Hence, this sample may not be able to capture the whole OFDS targeted population and mainly dominated by young consumers [28,51]. Future studies need to expand their sample demographic in order to get the whole OFDS targeted population.

Second, this study also utilizes COVID-19 pandemic corresponding to OFDS usage in September until October 2020. One of the variables that related to and OFDS during COVID-19 pandemic would be Safe Packaging (SP). The final framework showed that SP was not significant in influencing the usage of OFDS. This result could be related to the samples which mostly were millennials and they perceived it as not important. Most of the respondents were Millennials and they considered the price and promotion instead of safe packaging. Thus, it is logically correct if price and promotion had significant impacts on the actual use.

Third, our study was mainly focused on the restaurant to costumer through an outsourcing platform since this type of OFDS is the most common in Indonesia. In fact, there are other types of OFDS such as platform to consumer immediately or restaurant to costumer through self-delivery. Future research to investigate the acceptance between these types would be a very promising research topic.

Last but not the least, this study was not considered the impact of cultural factors (e.g., food habits, health consciousness, family size, and lifestyle). For the future study, the researchers suggest using cultural factors that could have a direct and indirect effect on satisfaction and loyalty towards OFDS. Unfortunately, our study only considered the direct factors such as price, promotion, and safe packaging which directly relate to the food. Future research could incorporate several indirect factors such as the number of restaurants, menu, and driver's attitudes.

6. Conclusions

The COVID-19 pandemic is a global serious crisis in 2020. In Indonesia, it has infected more than 1,099,687 positive cases and 30,581 deaths as of February 3rd 2021 [11]. The current study utilized an extended Theory of Planned Behavior (TPB) to determine factors affecting the customer satisfaction and loyalty in OFDS during the new normal of COVID-19 measured among Indonesian. A total of 253 voluntary respondents which consists of 65 questions distributed among 15 categories. The results of Structural Equation Modelling (SEM) indicated that Hedonic Motivation had the most significant direct effect on the Intention to Use (ITU). Furthermore, Price (P) also had a significant direct effect on the Actual Use (AU). Followed by Information Quality (IQ) which had a significant effect on ITU and Promotion (Pro) had a significant effect on AU.

Interestingly, this study found that usability factors related to technical issues were proven not to be significant. The current study is one of the studies that analyzed factors affecting customer satisfaction and loyalty in OFDS measures during the new normal of COVID-19 pandemic. The result of this study can be used as a reference for OFDS developer to improve their service quality. Furthermore, this study suggested that OFDS provider must pay attention to customer's Hedonic Motivation (HM), Price (P), Information Quality (IQ) and Promotion (Pro). Finally, this study can also be applied to evaluate the factors affecting customer satisfaction and loyalty in OFDS measures in other countries which are also dealing with COVID-19 pandemic.

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