THE APPLICATION OF MENU APPETIZER BASED ON MENU ENGINEERING TO INCREASE SELLING VOLUME IN EL PATIO RESTAURANT, SOL BEACH HOUSE BENOA BALI

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ABSTRACT

Restaurant is a business that plays an essential role in tourism. The management of restaurant is always attempting to increase the sales menu by evaluating the offered menu in order to gain maximum profits. This article focuses on: (1) The application of menu appetizer based on menu engineering in El-Patio Restaurant and (2) its attempts to increase the sales volume of appetizer menu in El-Patio Restaurant. Data was collected by using observation, documentation, and intensive interviews method. Data analysis used in this research is menu engineering analysis. The result showed that from 21 items of appetizer menu analyzed, there were 47,6% or 10 menus with a high popularity level while 52,4% or 11 menus were on the low popularity level. Meanwhile, there were 7 menu items or 33,3% that has the highest contribution margin and 66,7% or 14 items with the lowest contribution margin. Then, from 21 items of appetizer menu analyzed, 28,6% or 6 menu items are categorized as star, 19% or 4 items are categorized as plowhorse, 4,8% or 1 item is categorized as challenge and 47,6% or 10 items are categorized as dog. Attempts that can be done by the management of F&B Department, Sol Beach House Benoa Bali is to improve the menu quality, promote th menu, suppress the production cost, removing unfavorable menu and develop a new menu. It is recommended for the management of F&B Department, Sol Beach House Benoa Bali to evaluate the menus with the analysis of menu engineering at least every 3 months.

Keywords: appetizer, menu engineering, contribution margin.

INTRODUCTION

Sol Beach House Benoa Bali is a five stars hotel, located in Tanjung Benoa area which is famous because of its beautiful beaches as well as its various watersport activities that can be enjoyed by tourists. Sol Beach House Benoa Bali offers a comfortable resting place with various facilities such as restaurant, swimming pool, bar, SPA, gym center, kids' corner; games room, in house clinic, gift shop & shopping, foreign exchange, as well as a clean and beauty of private swimming pool. It also provides a pleasant restaurant for every tourist to fulfill their foods and beverages need.

Sol Beach House Benoa Bali has 3 restaurants and 2 bars. One of 3 restaurants owned by Sol Beach House Benoa Bali is El-Patio Restaurant, a 24 – hour's restaurant.

This restaurant provides a variety menu such as a 'la carte and buffet menu. A'la carte menu is a list with different kind of foods as well as its prices and compositions of each foods so that every hotel guests are easier and freely to choose any foods based on their budget and preferences. It usually consists of appetizer, main course, dessert as well as any kind of beverages.

Appetizer is usually called by starter, or first course. Appetizer is a first dish served that aims to arouse appetite (Cahyana and Guspri. 2009: 6). Appetizer served in a small portion (70– 100 gram) so that it doesn't glut and has salty, savory, and wry taste, as well as it is also presented with appealing look to attract.

El-Patio Restaurant, Sol Beach House Benoa Bali always attempts to create an attractive menu list for the customers. The offered appetizer menu starts from Indonesia appetizer, Asian and Spain with various prices, ranging from Rp. 50.000 to Rp. 75.000. With delicious taste to arouse appetite, this price is affordable for customers. Besides, it helps tourists to choose and order foods, menu list also help the restaurant in recapping foods amount that are ordered by the customers. It certainly helps the restaurant to identify the food sales volume whether it has decreased or increased.

Table 1
Sales Volume of Appetizer Menu at El–Patio Restaurant, Sol Beach House
Benoa Bali 2015– 2017 (Portion)

Food Name	Year							
Food Name	2015	2016	2017	Total				
Calamaries ala Romana	93	63	66	222				
White bean soup	0	0	8	8				
Garden salad	47	43	35	125				
Quesadilla	149	101	104	354				
Caesar salad	154	119	98	371				
Cobb salad	59	45	26	130				
Beef & orange salad	0	0	9	9				
Rocket grape & walnut salad	0	0	16	16				
Gazpacho	52	58	31	141				
Potato & leek soup	80	56	57	193				
Cucumber yogurt soup	0	0	20	20				
Tom yam goong	0	0	37	37				
Gado-gado	51	37	37	125				
Lumpia semarang	119	111	112	342				
Soto ayam	70	56	43	169				
Chicken porridge	0	0	9	9				
Fried dim sum	0	0	16	16				
Sate lilit ayam & lawar kacang	0	0	18	18				
Won ton soup	0	0	27	27				

Noodle soup	0	0	30	30
Udang saos tomat	0	0	14	14
Total	874	689	813	2376

Source: F&B Department, Sol Beach House Benoa Bali (2018).

Table 1 showed that sales of appetizer menu at El-Patio Restaurant are decrease for some menus within year 2015-2017. It is caused by many factors such as product's quality, service, promotion, the amount of visited customers from 2015–2017, as well as customer's interest to the menu that is offered. The sales of appetizer menu will certainly affect to the turnover received by El-Patio restaurant. The increasing of sales volume of appetizer will be in line with profits and turnover gained. Similarly, profits and turnover gained by restaurant will also decrease if the decrement within the sales of appetizer occurred. There are several ways to overcome with the decrement of appetizer sales, one of them is by evaluating the menus or applying the menu engineering.

Menu engineering is a gradual process which is designed to help the management in evaluating the current and future menu prices, menu composition, as well as designing decisions upon prices and menus (Ninemeier, 2009: 122). It is used to measure menu ability in fulfilling customer's desire as well as identify the profits distribution that is gained by the restaurant from foods and beverages sales (Puri, 2015). By implementing this menu engineering, it helps the management to assess the development of food sales in El–Patio Restaurant which will affect the profits gained by them. Therefore, this article examines "The Application of Menu Appetizer Based on Menu Engineering to Increase Selling Volume in El Patio Restaurant, Sol Beach House Benoa Bali".

RESEARCH METHOD

This research conducted in El-Patio Restaurant by considering the amount of appetizer menu sales which is decreased from 2015–2017. It used secondary data, sourced from F&B Department of Sol Beach House Benoa Bali through observation, documentation, and intensive interview. The analysis technique used in this research is menu engineering analysis. Menu engineering is a gradual process that helps management to evaluate the current and future menu, prices, design, as well as the menu content.

Formula used to determine the popularity level of a menu is (Wiyasha (2011: 137 – 138): Popularity leve = 70% x 1n x N.................................(2)

Note:

70% = Proportion of menu item sold as well as the minimum limit to be achieved

n = Amount of items offered

N = Amount of portion sold

The next step is to enter the data that has been obtained from F&B Department Sol Beach House Benoa Bali into the worksheet of menu engineering. After entering the data, the calculation is made to obtain the menu classification. There are calculation used as follows:

a. Sales = Amount sold divided with the total sold x 100%

b. Total sold = Amount sold x selling price

c. Total of Contribution Margin = Amount sold x contribution margin

d. Av. CM = Total of contribution margin divided with total sold.

After calculating by using menu engineering method, food menu classification is obtained according to the menu mix which refers to the popularity of a menu item, and contribution margin which based on its selling prices as well as the food cost or gross profits which are obtained from each product.

Table 2 Menu Classification

_ 3										
MM Ranking	CM Ranking	Classification								
High	High	Star								
High	Low	Plowhorse								
Low	High	Challenge								
Low	Low	Dog								

Source: Ninemeier (2009: 125).

Table 2 explained that menu can be classified after calculating the menu mix and contribution margin from each menu. If MM is as high as CM, the menu is classified into star. If it has a high number of MM, but the CM is low, the menu is classified into plowhorse. If both MM and CM is low, the menu is classified into dog menu. According to the menu classification's result, it can be known which menus that are classified into popular and unpopular. Menu is considered to be popular if it is profitable or has a high number of MM and CM, Meanwhile, if the menus have a low number of MM and CM, it is considered to be unpopular.

RESULTS AND DISCUSSION

Menu engineering is a method used to evaluate the current and future of menu price, design, and decision making (Mulyani et al, 2014). Menu engineering analysis within a restaurant is essential in order to increase the sales number and determine which menu that has a high as well as the low profits. By doing menu analysis, it will certainly help the restaurant management to take steps and determine the right strategy to increase the sales of appetizer menu. Before moving further, the obtained data from company will be included in the analysis of menu engineering worksheet. There are some steps to analyze the menu engineering further as follows:

1. Calculating the Percentage of Sales

$$\% \, Sales = \frac{Amount \, Sold}{Total \, Sold} \times 100\%$$

2. Calculating Contribution Margin for each food variant

3. Calculating the Total Sales

 $Total\ Sales = Amount\ Sold\ imes Food's\ Selling\ Price$

4. Calculating the Total of Contribution Margin

 $MK Total = Amount Sold \times Contribution Margin$

5. Determining the category of contribution margin for each appetizer menu. The first step is determining the average contribution margin rate by dividing the total contribution margin with the total sold.

$$\textit{CMAchievementRate} = \frac{\textit{Total Contribution Margin}}{\textit{Total Sold}}$$

6. Determining the category of popularity level

Popularity level =
$$70\% \times \frac{1}{n} \times N$$

Worksheet upon the result of menu engineering analysis in El–Patio Restaurant, Sol Beach House Benoa Bali ranged from 2015 – 2017 is presented as follows.

Table 3
Menu Engineering Worksheet in El–Patio Restaurant, Sol Beach House Benoa Bali, ranged from 2015 – 2017

White Bear South South	Menu Item Name	Number of Sold (Portion)	Popularity (%)		m Food st (Rp)		elling Price		largin tribution	Tota	al Revenue		otal Margin ontribution	Margin Kontribution Category	Menu Mix Category	Classification
Soup	Romana	222	9,3%	Rр	11.421	Rp	65.000	Rp	53.579	Rp	14.430.000	Rр	11.894.538	H	H	STAR
Quesadilla 354 14,9% Rp 8.221 Rp 65,000 Rp 56,779 Rp 23,010000 Rp 20,099,766 H H STAR Cobb Salad 130 5,5% Rp 13,387 Rp 65,000 Rp 56,792 Rp 24,115000 Rp 67,798,699 H H STAR Cobb Salad 130 5,5% Rp 13,387 Rp 65,000 Rp 51,613 Rp 67,798,699 H H H STAR Beef & Orange Salad 9 0,4% Rp 12,195 Rp 60,000 Rp 47,805 Rp 540,000 Rp 430,245 L L L DOG Rocket Grape & Walmut 16 0,7% Rp 15,782 Rp 60,000 Rp 44,218 Rp 960,000 Rp 707,488 L L L DOG Garpacho 141 5,9% Rp 8,934 Rp		8	0,3%	Rр	13.431	Rp	50.000	Rp	36.569	Rp	400.000	Rр	292.552	L	L	DOG
Caesar Salad 371 15,6% Rp 8,071 Rp 65,000 Rp 56,929 Rp 24,115000 Rp 21,120,659 H H STAR	Garden Salad	125	5,3%	Rр	7.359	Rp	65.000	Rр	57.641	Rp	8.125.000	Rр	7.205.125	H	H	STAR
Cobb Salad 130 5.5% Rp 13.387 Rp 65.000 Rp 51.613 Rp 8.450000 Rp 6.709.690 H H STAR Beef & Orange Salad 9 0.4% Rp 12.195 Rp 60.000 Rp 47.805 Rp 540.000 Rp 430.245 L L DOG Rocket Grape & Walmut 16 0.7% Rp 15.782 Rp 60.000 Rp 44.218 Rp 960.000 Rp 707.488 L L DOG Garpacho 141 5.9% Rp 8.991 Rp 40.000 Rp 31.009 Rp 5.640.000 Rp 4.372.269 L H PLOWHO! Potato & Lesk Soup Curumber 20 0.8% Rp 8.538 Rp 40.000 Rp 41.026 Rp 9.650.000 Rp 7.918.018 L H PLOWHO! Tom Yam Goong 37 1.6% Rp 15.813 Rp 60.000 Rp 44.187 Rp 2.220.000 Rp 1.634.919 L L DOG Gado-Gado 125 5.3% Rp 9.330 Rp 60.000 Rp 44.87 Rp 2.220.000 Rp 1.634.919 L L DOG Gado-Gado 125 5.3% Rp 9.330 Rp 60.000 Rp 47.820 Rp 20.520000 Rp 16.354.440 L H PLOWHO! Soto Ayam 169 7.1% Rp 10.489 Rp 50.000 Rp 49.170 Rp 540.000 Rp 761.088 L L DOG Fried Dim Sum 16 0.7% Rp 12.432 Rp 60.000 Rp 47.568 Rp 960.000 Rp 761.088 L L DOG Fried Dim Sum 16 0.7% Rp 12.432 Rp 60.000 Rp 47.568 Rp 960.000 Rp 761.088 L L DOG Fried Dim Sum 16 0.7% Rp 12.432 Rp 60.000 Rp 47.568 Rp 960.000 Rp 761.088 L L DOG Fried Dim Sum 16 0.7% Rp 12.432 Rp 60.000 Rp 47.568 Rp 960.000 Rp 10.95.417 L L DOG Fried Dim Sum 16 0.7% Rp 12.432 Rp 60.000 Rp 47.568 Rp 960.000 Rp 10.95.417 L L DOG Sate Lilit Ayam & 18 0.8% Rp 12.074 Rp 60.000 Rp 47.568 Rp 960.000 Rp 10.95.417 L L DOG Soup 27 1.1% Rp 9.429 Rp 50.000 Rp 40.571 Rp 13.50.000 Rp 10.95.417 L L DOG Won Tonn 27 1.1% Rp 9.429 Rp 50.000 Rp 40.945 Rp 1.080.000 Rp 551.004 H L CHALLEN Tonnat 14 0.6% Rp 14.214 Rp 75.000 Rp 60.786 Rp 1.050.000 Rp 851.004 H L CHALLEN	Quesadilla	354	14,9%	Rр	8.221	Rp	65.000	Rp	56.779	Rp	23.010.000	Rр	20.099.766	H	Н	STAR
Beef & Orange Salad 9	Caesar Salad	371	15,6%	Rр	8.071	Rp	65.000	Rр	56.929	Rp	24.115.000	Rр	21.120.659	H	H	STAR
Orange Salad 9		130	5,5%	Rр	13.387	Rp	65.000	Rp	51.613	Rp	8.450.000	Rp	6.709.690	H	Н	STAR
& Walnut 16 0.7% Rp 15.782 Rp 60.000 Rp 44.218 Rp 960.000 Rp 707.488 L L L DOG Gazpacho 141 5.9% Rp 8.991 Rp 40.000 Rp 31.009 Rp 5.640.000 Rp 4372.269 L H PLOWHO! Portato & Leek 193 8.1% Rp 8.974 Rp 50.000 Rp 41.026 Rp 9.650.000 Rp 7.918.018 L H PLOWHO! Cucumber Yogurt Soup 20 0.8% Rp 8.538 Rp 40.000 Rp 31.462 Rp 800.000 Rp 629.240 L L L DOG Tom Yam 37 1.6% Rp 15.813 Rp 60.000 Rp 44.187 Rp 2.220.000 Rp 1.634.919 L L L DOG Gado-Gado 125 5.3% Rp 9	Orange Salad	9	0.4%	Rр	12.195	Rp	60.000	Rp	47.805	Rp	540.000	Rp	430.245	L	L	DOG
Potato & Lesk Soup	& Walnut	16	0,7%	Rр	15.782	Rp	60.000	Rp	44.218	Rp	960.000	Rp	707.488	L	L	DOG
Soup	Gazpacho	141	5,9%	Rр	8.991	Rp	40.000	Rр	31.009	Rp	5.640.000	Rp	4.372.269	L	H	PLOWHORSE
Yogart Soup 20		193	8,1%	Rр	8.974	Rp	50.000	Rp	41.026	Rp	9.650.000	Rp	7.918.018	L	Н	PLOWHORSE
Goong 37 1.6% Rp 15.813 Rp 60.000 Rp 44.187 Rp 2.220000 Rp 1.634.919 L L DOG		20	0,8%	Rp	8.538	Rp	40.000	Rp	31.462	Rp	800.000	Rp	629.240	L	L	DOG
Lumpia Semarang 342 14.4% Rp 12.180 Rp 60.000 Rp 47.820 Rp 20.520000 Rp 16.354.440 L H PLOWHO!		37	1,6%	Rp	15.813	Rp	60.000	Rp	44.187	Rp	2.220.000	Rp	1.634.919	L	L	DOG
Semarang Semarang	Gado-Gado	125	5,3%	Rр	9.330	Rp	60.000	Rp	50.670	Rp	7.500.000	Rp	6.333.750	H	Н	STAR
Chicken Porridge 9		342	14,4%	Rр	12.180	Rp	60.000	Rp	47.820	Rp	20.520.000	Rp	16.354.440	L	H	PLOWHORSE
Porridge		169	7,1%	Rp	10.489	Rp	50.000	Rp	39.511	Rp	8.450.000	Rp	6.677.359	L	H	PLOWHORSE
Sum	Porridge	9	0,4%	Rp	10.830	Rp	60.000	Rp	49.170	Rp	540.000	Rp	442.530	L	L	DOG
Ayam & 18 0.8% Rp 12.074 Rp 60.000 Rp 47.926 Rp 1.080.000 Rp 862.668 L L DOG	Sum	16	0.7%	Rр	12.432	Rp	60.000	Rp	47.568	Rp	960.000	Rp	761.088	L	L	DOG
Soup 27 1,1% Rp 9,429 Rp 30,000 Rp 40,571 Rp 1,350,000 Rp 1,095,417 L L DOG	Ayam & Lawar Kacang		0,8%	Rр	12.074	Rp	60.000	Rp	47.926	Rp	1.080.000	Rp	862.668	L	L	DOG
Udang Saos 14 0,6% Rp 14.214 Rp 75.000 Rp 60.786 Rp 1.050.000 Rp 851.004 H L CHALLEN		27	1,1%	Rр	9.429	Rp	50.000	Rp	40.571	Rp	1.350.000	Rp	1.095.417	L	L	DOG
Tomat 14 0,6% kp 14.214 kp /5.000 kp 60.86 kp 1.050000 kp 851.004 H L CHALLES	Noodle Soup	30	1,3%	Rp	9.055	Rp	50.000	Rp	40.945	Rp	1.500.000	Rp	1.228.350	L	L	DOG
Train 2276 Pr. 117 621 116 4 027 Pr. 40.27			0,6%	Rр	14.214	Rp	75.000	Rp	60.786	Rp	1.050.000	Rp		Н	L	CHALLENGE
10tal 25/0 Rp 117.021.115 Av. CM Rp 49.5	Total	2376										Rр	117.621.115		Av. CM	Rp 49.503,84

Source: Data Processed.

Table 3 showed that there are 10 appetizer menus with a high popularity level, while 11 appetizer menus are on low popularity level. Within contribution margin, there are 7 appetizer menus with a highest number of contribution margin while 14 appetizer menus are on the lowest number of contribution margin. It means that out of 50% of the total of offered appetizer menu are having a low rate of popularity and contribution margin. This research is similar with the previous study, conducted by Puri (2015) which stated that half of the dessert menus in The Rooses Restaurant are unpopular with a low number of contribution margin. This research is slightly different with the research resultconducted

by Hernowo (2014) as most of menus in Katumiri Coffee Shop have a high rate of popularity. In order to know more clearly upon the existing menu group, the related data of menu classification based on its category is presented as follows.

Table 4
Appetizer Menu Classification in El–Patio Restaurant, Sol Beach House Benoa Bali, Ranged from 2015-2017.

Plowhorse (4 menus or 19%)	Star (6 menus or 28,6%)
Gazpacho	Calamaries ala Romana
Potato & Leek Soup	Garden Salad
Lumpia Semarang	Quesadilla
Soto Ayam	Caesar Salad
	Cobb Salad
	Gado-gado
Dog (10 menus or 47,8%)	Challenge (1 menu or 4,8%)
White bean Soup	Udang Saos Tomat
Beef & Orange Salad	
Rocket Grape & Walnut salad	
Cucumber Yogurt Soup	
Tom Yam Gong	
Chicken Porridge	
Fried Dim Sum	
Sate lilit Ayam & Lawar Kacang	
Wonton Soup	
Noodle Soup	
· ·	

Source: Data Processed.

Table 4 showed that most of offered appetizer menus are classified into dog category. This research is different from the research conducted by Mulyani et al (2014) that resulted as most of patisserie menus in Grand Jatra Balikpapan Hotel is classified into plowhorse. To overcome with the high number of menus that are classified into dog as well as increase the sales for the entire appetizer menu, the management of El–Patio Restauran, Sol Beach House Benoa Bali is able to make efforts as follows:

- For star category, things that can be done is by maintaining the menus quality, put them strategically in the menu list, always recommend them to the customers, and supervise the basic food price as well as the use of food ingredients.
- 2. For plowhorse category, things that can be made is to reduce the production cost by controlling the procurement of ingredients, processing to the food presentation,

- concerning the replacement of ingredients which is cheaper but with has the equal quality, and always recommend the plowhorse menus to customers.
- 3. For the challenge category, things that can be done is by doing any changes to the appearances of food presentation, always recommend the challenge category menus to customers, reduce the selling price of foods by still concerning to the price of food's ingredients used, as well as adding the challenge category menus into a special event held by hotel.
- 4. For dog category, things that can be done is by putting dog category menus strategically into menu layout / menu list, making overall changing to the menu composition, rename the menus to be more attractive for the customers, develop the new menus by doing any new innovations as well as concerning to delete any dog category menus.

CONCLUSION

According to the research of the application of appetizer menu engineering based the increase the sales volume in El–Patio Restaurant, Sol Beach Benoa Bali, it can be concluded as follows: From 21 menu items analyzed, there were 10 menu items (47,6%) that has a high level of popularity, while the rest for around 11 menu items (52,4%) are on the low level of popularity. Within contribution margin, 7 menu items (33,3%) has a high contribution margin while 14 menu items (66,7%) has a low contribution margin. Furthermore, there were 6 menu items (28,6%) are classified into star category, 4 menu items (19%) are on plowhorse category, 1 menu item (4,8%) were challenge category, and 10 menu items (47,6%) are classified into dog category.

Attempts that are done to increase the sales number of star category is by maintaining the menu's quality, putting star category menus strategically in the menu list, and keep recommending star category menus to customers. For plowhorse category, it can be done by reducing the production cost of plowhorse category menus, concerning the replacement of ingredients which is cheaper but with has the equal quality, and always recommend the plowhorse menus to customers. In challenge category, things that can be done is by doing any changes to the appearances of food presentation, always recommend the challenge category menus to customers. Meanwhile, in dog category,

things that can be done is by making overall changing to the menu composition, develop the new menus by doing any new innovations as well as concerning to delete any dog category menus.

Based on the result of the study as well as the conclusion above, it can be suggested that: The management of F&B Department, Sol Beach House Restaurant to do a menu evaluation by using the menu engineering analysis for at least every 3 months in order to determine the right attempts in increasing the sales number of appetizer menu in El–Patio Restaurant, Sol Beach House Benoa Bali. The whole staffs and management of Sol Beach House Benoa Bali have to continue the promotion of the entire appetizer menu, either it is star, plowhorse, challenge, or dog category in order to increase the popularity rate of menus and provide a massive profit. The management of Sol Beach Benoa Bali has to pay attention to tourist's interest in order to create new innovations of foods so it suits within tourist's taste and desire.

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