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**JOHOR
INNOVATION
INVENTION
COMPETITION
AND
SYMPOSIUM
2023**



"Innovation Inspires a Society
to be Critical and Creative"

JOHOR INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2023



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Editors-in-Chief

**AHMAD KHUDZAIRI KHALID
NUR INTAN SYAFINAZ AHMAD**



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**Cawangan Johor
Kampus Pasir Gudang**

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**Editors-in-Chief: AHMAD KHUDZAIRI KHALID &
NUR INTAN SYAFINAZ AHMAD**

**Art & Cover Designer: DR. WAN MUNIRAH WAN MOHAMAD
& DR. NUR IDAYU ALIMON**

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Preface

In the name of Allah, the Almighty who gives us the enlightenment, the truth, the knowledge and with regards to Prophet Muhammad (peace be upon him) for guiding us to the straight path. We thank to Allah for giving us guidance and strength to write this e-book.

This e-book compiles the extended abstracts that submitted to Johor Innovation Invention Competition and Symposium 2023 (JIICaS2023), where JIICaS2023 is a virtual platform for all creative minds to share and present their invention and innovation. The extended abstracts are divided into two categories, which are Category A (Higher Educational Student/ Any Recognized Institutional Students in Malaysia) and Category B (Primary/ Secondary School Students / Special Education School Students in Johor). Each abstract gives a brief background on the innovation or project.

We hope that this e-book will help the readers to get to know the innovation done by the students from both categories and get some ideas to develop future innovation products.



UITM STUDENTS' SURVEY ON GROCERY STORE

Izzah Nur Aqilah binti Mohd Zakariah¹, Nurhaziqah Hannani binti Razali¹, Norfarah Anina binti Khairul Anuar¹, Qisya Nur Basirah Adawiyah¹, Nur Intan Syafinaz binti Ahmad²

¹Faculty Business and Management (Transportation), UiTM Johor Branch Pasir Gudang Campus

²College of Computer, Informatics and Media Studies, UiTM Johor Branch Pasir Gudang Campus

*email: haziqahanani19@gmail.com (Nurhaziqah Hannani binti Razali)

ABSTRACT

Grocery store refers to a certain category of retail enterprise that concentrates primarily on the distribution of a diverse range of food goods, which can be either fresh or packed depending on the store's particular offerings. Grocery store has a variety of section that sell different categories types of food. Since, grocery store offer more types of food, it is convenient for the students to buy their necessity there but the problem that students have been facing is most of the grocery stores around their campus are out of reach. In fact, several supermarket stores only have one that is close to a university. The grocery store that is conveniently located close to the campus are occasionally sell items at high prices. One of the characteristics that play apart for choosing the grocery store among students is the availability of handy facilities at students' grocery stores, such as parking, mosques, and toilet. Therefore, the purpose of these studies is to determine which grocery stores offer the most satisfying service and facilities. In addition to this, one of our other goals is to identify a supermarket item with a price that is more reasonable than the others. From, the finding it is found that the cheapest grocery store is Mydin. They offer more product at economical price. From the observation Aeon has been chosen as the most convenient facility among other grocery store. In conclusion, different grocery store provide and give different perspective among UiTM students.

Keywords: grocery store, facilities, food, services, price.

1.0 INTRODUCTION

The term "grocery store" refers to a certain category of retail enterprise that concentrates primarily on the distribution of a diverse range of food goods, which can be either fresh or packed depending on the store's particular offerings. The words "grocery store" and "supermarket" are interchangeable terms, although the phrase "grocery shop" can be used to refer to supermarkets, grocery stores, or any other type of business that carries food products.

A part of the research revealed that grocery stores specialize in food and beverages but also carry a limited assortment of household goods. Supermarkets still have a strong emphasis on food and drink, but they stock a wider variety of products than regular grocery stores. Other supermarkets distinguishing features include clothing, home decor, gardening supplies, and entertainment. Similarly, a pharmacy or a bank are unlikely to be found inside a grocery store.

Furthermore, one of the advantages of shopping at grocery store is people can get a few of sample before purchasing something from the store. At grocery store it has a variety of section that sell different categories types of food. For example, dry goods which may include sugar, flour, and coffee. Besides that, staple foods such as potatoes, soybeans, and wheat are provided. In addition, bakery goods can be purchased alongside canned, frozen, and prepared

foods in the grocery store. On top of that, grocery store also sells a full range of household such as toilet paper, healthcare, and personal items.

The problem that students have been facing is most of the grocery stores around their campus are out of reach. In fact, several supermarket stores only have one that is close to a university. Furthermore, the grocery store that is conveniently located close to the campus are occasionally sell items at high prices for students to purchase it from them. Besides that, one of the characteristics that play apart for choosing the grocery store among students is the availability of handy facilities at students' grocery stores, such as parking, mosques, and toilet.

In order to better accommodate the needs of the students attending University of Technology Mara, the surrounding area features a number of supermarkets and other food retail establishments such as fresh food, dairy product, bakery, cleaning supplies and personal hygiene items and it also has food court in the supermarket. Examples in Lotus food court mall, they provide chicken rice shop, sizzling yee mee, a variety of water such as Air Batu Campur (ABC) and many others. This report is mainly about a survey for UiTM Students to identify the most useful and pocket friendly grocery store among them.

2.0 OBJECTIVE

The following are the overall objectives of this study:

1. To determine where UiTM students shop for grocery
2. To observe the most satisfying service and facilities in grocery store
3. To discover the most economical price among all grocery stores available
4. To identify total amount of money student usually spend

3.0 DESCRIPTION OF DATA

3.1 Population and Sample

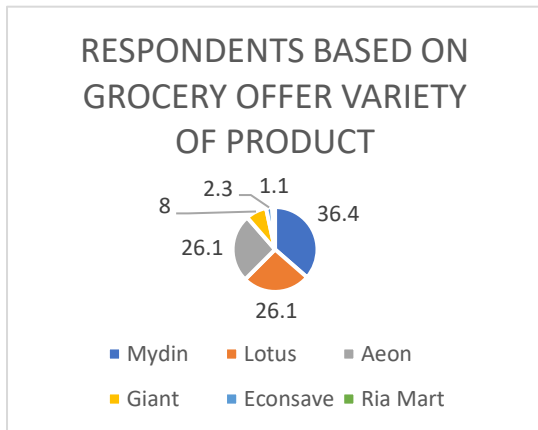
The term "population" is used to refer to all of the objects under study, whereas "sample" refers to a specific selection of those objects. Every participant in our poll is a student at UiTM. From all UiTM students only 88 students will be selected.

This research employs a Quota-sampling methodology. This method is more efficient and less cost than others. A convenience sampling method is used to choose the sample from the population, giving each possible respondent an equal shot of being chosen.

3.2 Data Collection Method

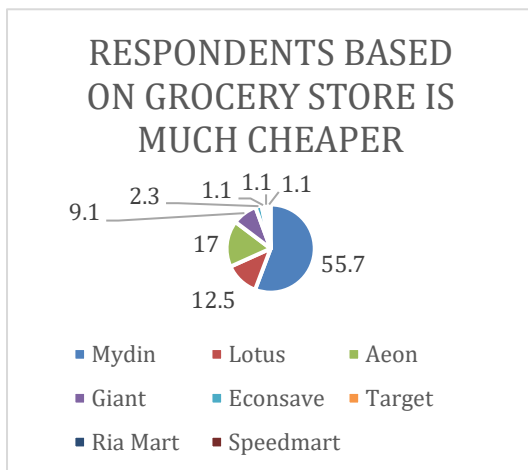
For this survey, we turned to an online form. In this approach, we use a Google Form to create and disseminate a questionnaire to every student. We'll have to wait for the google form questionnaire submissions from the participants. Last but not least, 88 random student were chosen for the study since each individual had the same probability of getting selected.

4.0 ADVANTAGE/IMPACT/RESULTS/NOVELTY



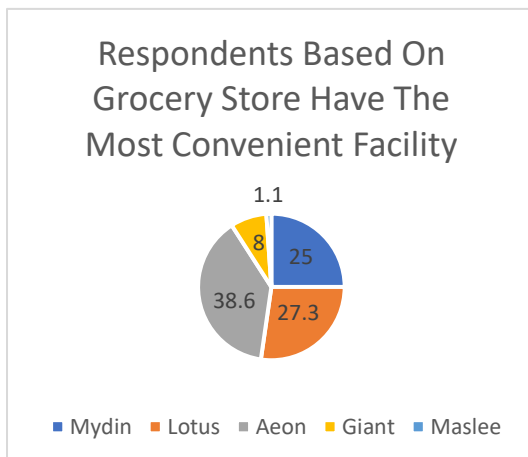
The pie chart shows of Respondent On Grocery Offer Variety Of Product. From the piechart, the highest percentage is from Mydin follow by Lotus and Aeon. The lowest percentage are from Ria Mart.

Pie chart of Respondent On Grocery Offer Variety Of Product



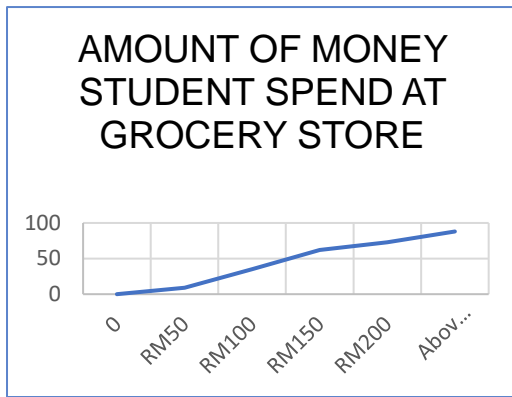
The pie chart shows of respondent on grocery store offer much cheaper price. Mydin has been chosen as the cheapest grocery store. The second store that has been chosen are Lotus. Where else, the most expensive shop that respondents has chosen are Speedmart, Target and Ria Mart.

Pie chart of Respondent On Grocery Offer Which Offer Much Cheaper Price



The pie chart shows of respondent on grocery store have the most convenient facility. The highest percentage chosen are Aeon with 38.6% while the lowest percentage are Maslee which is 1.1 %.

Pie chart of Respondent On Grocery Store Have The Most Convenient Facility



The ogive can approximately be considered to be a straight line except for a very slight decrease at the amount of RM50 and an increase in the amount RM150. Otherwise, those amount of money that students spend were evenly distributed between the amount of RM100 to RM150. This means that most of the students spend between RM100 to RM150.

Ogive on Amount Of Money Student Spend At Grocery Store

5.0 CONCLUSION

In conclusion, we got a total of 88 respondents from a survey in a google form to determine where usually students from University Technology Mara (UiTM) shop for their grocery. We also came up with some new suggestions that can help us with our research. We identify the most popular grocery store among them. For example, Mydin, Lotus, Aeon, Giant and, others. Most of the respondents for this survey is female than male. From the survey, 70.5 percent out of the 88 respondents is 18-19 years old.

Price from each of the stores are observed. From the questionnaire we found that the cheapest grocery store is Mydin. They offer product at economical price. If buying Mydin in high quantity, customer can get wholesale price. And before going to grocery, students need to make a list of groceries. It will help students to reduce the money and to not spend over limit.

Moreover, from the questionnaire about how much student usually spend money per month, most of the students choose between RM100 to RM150. We get to know how much budget that students used to buy grocery. Usually, their pocket money come from their allowance and student loan.

Lastly, we get to observe the most satisfying service and facilities at grocery store. Respondents can choose between agree and disagree, so based on the survey most of students are satisfied with the service and facilities in grocery store. Respondent also choose Aeon as the most convenient facility among other grocery store. From this survey we get to know more about services that they offer and facilities they have. Customer will happy if they are satisfied.