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STUDENTS" e-PROFILING

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Abstract— Having a complete and adequate data profiling system about students is very vital as it can be used to obtain statistics or informative summaries on any matters concerning students. Currently, in UiTM Cawangan Kelantan (UiTMCK), the students' data could be found in the data system which is only available at the Hal Ehwal Akademik Department but with limited access. There are two types of data keeping in UiTMCK namely paper printed version and soft copy. The data of paper printed version are kept in the students file gathered during registration and are quite comprehensive whereas the soft copy data is concerned students' academic results only. Thus, to have a one stop-center and fast-tracking of students' data profiling, a system to collect information is created known as Students' e-Profiling (SeP). This system is meant for collecting data in order to get information about students' background concerning non-academic matters. The system is unique in the sense that it can be accessed either by using QR code or a link for the students to fill up required particulars. The system is beneficial as it could help academic staff to identify the students in terms of income, health or any physical limitation that needs further attention. The information gathered through this system could be used in the process of zakat selection, food bank selection, time table preparation etc.

Keywords— E-Profiling, students, Information, Selection

I. INTRODUCTION

Having a complete and adequate data profiling system about students is very vital as it can be used to obtain statistics or informative summaries on any matters concerning students. Currently, in UiTM Cawangan Kelantan (UiTMCK), the students' data could be found in the data system which is only available at the Hal Ehwal Akademik Department but with limited access. There are two types of data keeping in UiTMCK namely paper printed version and soft copy. The data of paper printed version are

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II. PROBLEM STATEMENT

Academic staffs especially lecturers found that the data are hardly to be accessed as well as time consuming to obtain them. The data which are available in the hard copy version is very difficult to be analyzed. Electronic data can be accessible for student's result only The limited information on students' background lead to the being powerless for management of Faculty of Accountancy to foresee the students' problem especially the monetary and health problem. Failure to foresee this problems might lead to the less timely decision making on the students' issue which cause negative impact on students' performance.

III. OBJECTIVES OF THE STUDY

1. To collect and access students' data without facing any difficulties.

2. To have a complete and adequate data profiling system that could be used to obtain statistics and informative summaries on any matter related to students.

3. To have a one stop center of students' data collection.

4. To utilize the advantage of current technology advancement in respect of data collection and analysis if necessary. Units

Identify applicable funding agency here. If none, delete this text box.

IV. SIGNIFICANCE OF THESTUDY

1.   Less time consumption in collecting, assessing as well analyzing data.
2.   The data collection could be used to cluster the students based on the income group, leadership and physical and mental health

V. METHOD

This project is an applied research to solve problem on data collection. The instrument used in the project is Google form that consists of series of questionnaires. The questionnaires are developed on non-academic matters concerning students' income group, students' leadership quality and students' health. This study used convenience sampling, where the questionnaires in the Google form are distributed to the part one students of AC 110 via a link which can be accessed using mobile phone or computer.

The method we used in our research is a survey in the form of questionnaires which are divided into 3 parts:

1.   First part concern about the students' background of their family's income, number of family members and etc.
2.   Second part is to identify the students' leadership ability.
3.   Third part concern on the students' health, the questionnaire developed is to identify the students' physical and mental health this part also concerned on the physical inability.

The first and second part of questionnaire developed based the needs of information about the students by lecturers especially the management of AC110. The income scale is based on Malaysians income group which are categorised into three different income groups: Top 20% (T20), Middle 40% (M40), and Bottom 40% (B40). This is based on the Department of Statistics' (DOSM) Household Income and Basic Amenities (HIS/BA) survey of 2016.

The third part of the questionnaire which consist of students physical and mental health. The mental health questions were replicate from ‒Take a Mental Health Quiz‖ from Goldberg (1996) .
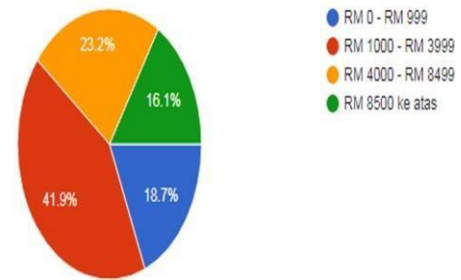
VI. RESULTS AND DISCUSSION

More than fifty percent (50%) respondents respond within 4 hours after the link to the questionnaires is provided to them, the average time consumption for each respondent in answering the questions is only within five minutes. After 24 hours after the link is being provided to the part one students of AC 110, the response rate turned out to be one hundred percent.

Fig. 1. Houshold Income
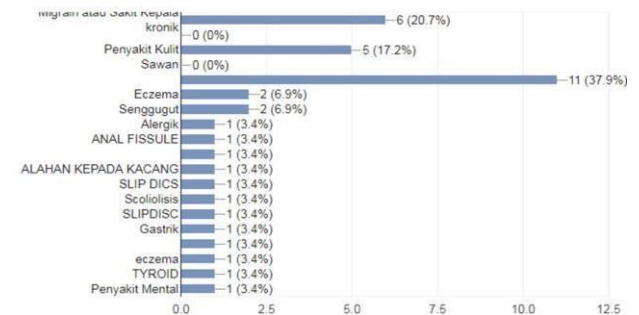
Pendapatan Isi Rumah (Bapa/Ibu/Penjaga):

155 responses

- RM 0 - RM 999
- RM 1000 - RM 3999
- RM 4000 - RM 8499
- RM 8500 ke atas

Based on figure 1 above, 41.9 % are from the income group of income RM1,000-RM3,999 which can be considered as B40, 23.3% of the respondents can be categorized as M40 with the income range of RM4000-RM8499. 18.7% of respondents with the income range of below RM1,000. This group is considered poor by ‒Kementerian Perumahan dan Kerajaan Tempatan‖. The income range of RM8500 and above which is from the T20 group is 16.1%.

Fig. 2. Health Issues

Penyakit yang dihidapi:

29 responses

Based on figure 2 above, 29 respondents are identified with health problem,17 types of health issues identified with the highest percentage comes from…..(37.9%), migraine (20.7%) and 2 respondents are identified with slip discs. 1 respondent is identified to have mental issues.

The information gathered could be used in the process of the food bank and zakat selection, this selection can be based on the data of family income and background. Those students in category of poor should be highlighted to ensure that they get the proper assistance especially in terms of monetary. The time-table preparation can be based on the students' mental and physical health so as to cater those who are having limited ability.

Thus the accessibility of data by the respective person is very important to ensure planning and decision making process regarding the students can be made in timely manner, this system will assist the lecturers especially the academic advisor and the management of faculty to identify the students with potential problem in terms of monetary or health, the proactive measure can be done to overcome the potential problem.

This Students' e-Profiling has ensure that data of the students can be collected and accessed without facing any difficulties but without violating the confidentiality since only respective person is responsible for the information. A complete and adequate data profiling system that could be used to obtain statistics and informative summaries on any matter related to students.It is also a one stop center of students' data collection.this system is used to utilize the advantage of current technology advancement in respect of data collection and analysis if necessary instead of using manual system.

VII. CONCLUSIONS

SeP is beneficial as it help academic staff to identify student's problem related with income health physical limitation due to no cost incurred in developing and implementing it. The system is deemed to be cost effective, thus could be applied to Universiti Teknologi MARA, Cawangan Kelantan (UiTMCK) as a whole.

ACKNOWLEDGMENT

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