UNIVERSITI TEKNOLOGI MARA

TECHNICAL REPORT

MOBILE APPLICATION FOR CARPOOLING SYSTEM IN UiTM SEREMBAN 3 BASED ON CUMULATIVE FREQUENCY AVERAGE RATING

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NUR FARRAH AIN BINTI MOHAMAD JOHARI (2017539793)

NURFATIN NABILAH BINTI MD FAUZI (2017583951)

NURUL NAJIHAH BINTI HISAMUDDIN (2017958387)

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IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

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ABSTRACT

In Malaysia, Grab and myCar are the most known e-hailing services. For UiTM Seremban 3 students, the price for using Grab or myCar service have a bit costly. Currently, the rider cannot choose their own preferred driver using Grab and myCar services. Some riders have their own preferences to select the driver they wanted. In this mobile application, the rider can choose the driver based on star rating that the driver owns and also the distance between the driver and the rider. Besides, the rider needs to rate the driver based on their preference. This carpooling application uses the Average Rating model to generate the lists of the driver. The list of the driver will sort based on the average value of each driver and automatically arranged by the system from the highest to the lowest rate. In order to develop this application, we had implemented an agile development method where it allows us to respond to changing requirements. In addition, this application needs more improve such as add a platform for rider and driver to communicate, add a payment method, enable the driver plan his journey and add reject button at the driver interface. This study has fulfilled the objectives which are to apply cumulative frequency of average rating in order to rank the drivers and to develop mobile application to ease the customer choose drivers by using method from the first objective. Therefore, by developing a carpooling mobile application, it will give a chance and some advantages to the riders to select the driver they want and enjoy their riding.