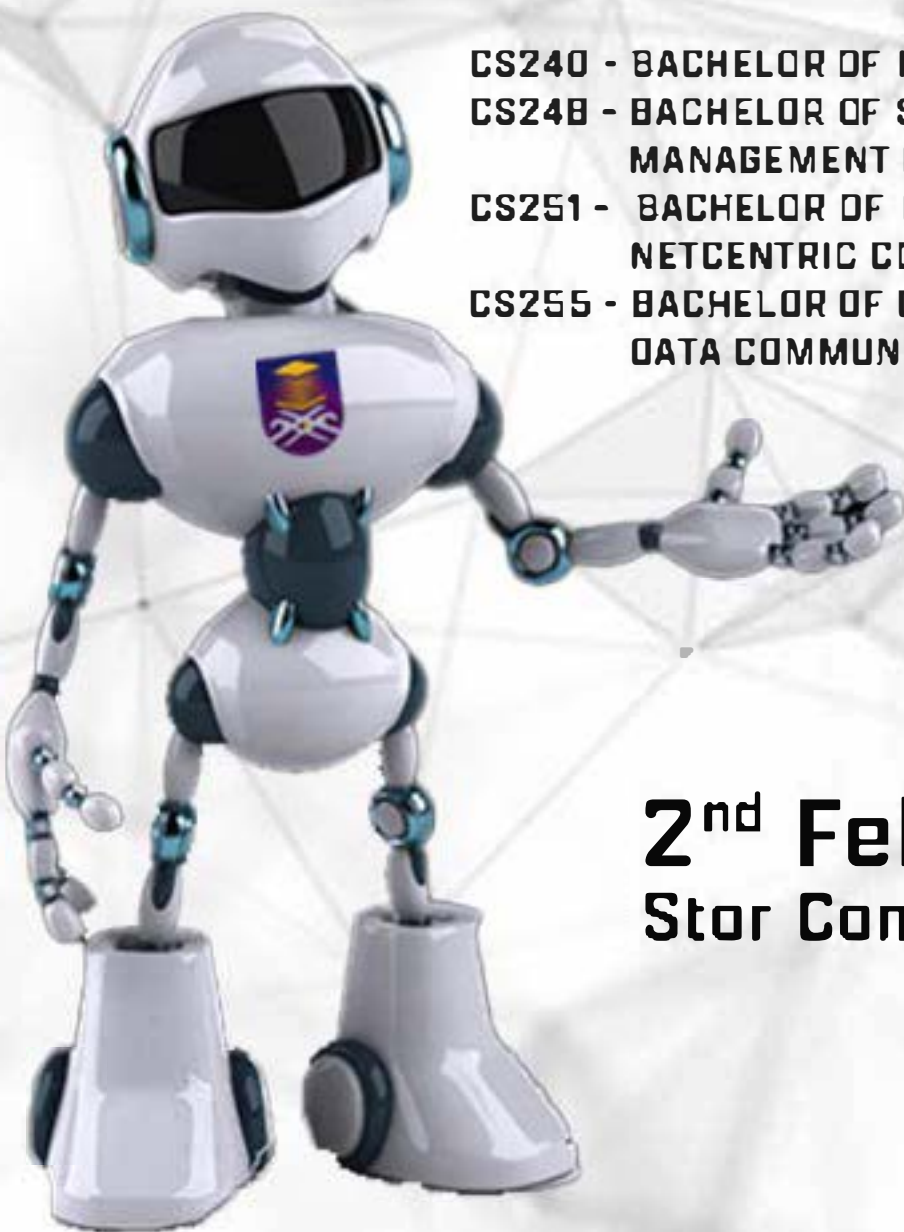

RESEARCH EXHIBITION IN MATHEMATICS & COMPUTER SCIENCES

REMACS 5.0



CS240 - BACHELOR OF INFORMATION TECHNOLOGY [HONS.]
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2nd February 2023
Stor Complex, UiTM Perlis

Organized by:
College of Computing, Informatics and Media
Universiti Teknologi MARA Perlis Branch

**Research Exhibition in Mathematics and Computer Sciences
(REMACS 5.0)**

Research Exhibition in Mathematics and Computer Sciences (REMACS 5.0)

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Preface

It is with great pleasure that we present this extended abstract book, titled "The 5th Research Exhibition in Mathematics and Computer Sciences (REMACS 5.0)". This book is a collection of research work in the fields of Computer Science and Mathematics, contributed by the final year students from Universiti Teknologi MARA, Perlis Branch. The aim of this book is to showcase the diversity and depth of research in these two interrelated fields.

Mathematics and Computer Science are two fields that have seen tremendous growth and advancement in recent years. With the rise of new technologies and the increasing demand for data-driven solutions, researchers in these fields have been working hard to develop new theories, algorithms, and models that can help solve some of the most pressing problems of our time. This book is a testament to their hard work and dedication.

The abstracts in this book cover a wide range of topics, including algebra, analysis, logic, computer architecture, algorithms, artificial intelligence, machine learning, computer network, netcentric computing and many more. The work presented here is both theoretical and practical, and has the potential to impact many areas of society, from finance and healthcare to education and security.

We hope that this book will serve as a valuable resource for future students in the fields of Mathematics and Computer Science. We also hope that it will inspire more students to pursue innovative and groundbreaking research in these two fields. Finally, we would like to express our gratitude to all the contributors for their hard work and dedication, without which this book would not have been possible.



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EVENT SCHEDULE

8:00 – 8:30 am

- Registration

8:00 am – 12:00 pm

- FYP Project Presentation

12:00 - 2:00pm

- Lunch Break

2:15 – 2:35 pm

- National & Wawasan Setia Anthems
- Doa Recitation

2:35 – 2:45 pm

- Welcoming Address by Director of REMACS 5.0

2:45 – 2:55 pm

- Officiating & Closing Remarks from Rector of UiTM Perlis

2:55 – 3:00 pm

- REMACS 5.0 Montage

3:00 – 4:00 pm

- Awarding of Winners:
 - Best Poster
 - Best Project Award

- Photo Session

- End of Ceremony

Dress Code: Formal / Corporate

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EXTENDED ABSTRACTS

RESEARCH EXHIBITION IN MATHEMATICS & COMPUTER SCIENCES
REMACS 5.0

FOOD TRUCK FINDER

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Abstract

Finding a food truck without internet or electronics is exhausting for food truck lovers. Since food trucks are mobile vendors, users have trouble finding their favourite food truck. To address this problem, a Food Truck Finder mobile application has been developed. It will help user by finding a food truck vendor where they are current location. The methodology that has been implemented into this project are using Agile Methodology. To improve the development, this project has been conducted to 30 respondents to validate the mobile application using User Usability Testing. From the result, a Food Truck Finder received feedback from the respondents. Hence, the objective of this project is successfully achieved.

Keywords: food truck, vendor, finder, mobile application

1. Introduction

The project's objectives are to design and develop a mobile application specifically for food truck user that can be able to find the food truck location near to the user's location. Secondly, to evaluate the functionality and usability of the mobile application. For the project scope, this mobile application involves two main users which are food truck vendors and food truck finders. Each user that wants to find a food from a food truck, they can use this mobile application whereas they can search and find the nearest food truck location to them. For a food truck vendor, they can update their current location of their food trucks. Also, the user can know the rating and reviews of the food truck that they search.

2. Methodology

Agile methodology is a sort of project management process that is mostly used for software development. First, the requirement phase that the project must be properly organized. Second, the design phase that need the information from requirement phase was applied in designing the Food Truck Finder. Third, the develop phase where the application or programme is fully coded. Fourth, the test phase where the functionality and usability testing are managed. Last is deploy phase where the documented all information about this project from beginning until the finished.

3. Results and Discussion

This user usability testing involved 30 respondents that has been chosen randomly. The questionnaire consists of the information of the respondents and the user usability testing questions. For user usability testing questionnaire, the answer provided was based on ranking. When testing the functionality of the mobile application, it had been done in order to check the application is working correctly. The result shows that most respondents strongly agreed and agreed that using the Food Truck Finder is simple and easy to use for them. However, there is some recommendation and feedback about the Food truck Finder by respondents. Also, all objectives were successfully achieved including designing and developing a mobile application to track where they food truck location are selling for that day. Yet, there are still have a limitation about this application.

4. Novelty of Research / Product

Food Truck Finder is a mobile application that help user to find a food truck location using Google Services. By using a Food Truck Finder, it can increase user interest in buying food from food truck. Also, it can help gain more profit for the vendors because people can easily find their location by using this application. Food trucks are one of many types of street commerce (Ehrenfeucht, 2017). Food trucks can open the job opportunities to people that do not have enough modal to start their business with opening the shop in the building. Also, people love to eat outside rather than cook at home. This mobile application can manage their time and energy too by knowing if the food truck is available or not and the distance from their current location to the food truck places

5. Conclusion

In conclusion, all of the objectives of this project are achieved successfully. This mobile application, Food Truck Finder, was useful and it can be used anytime and anywhere as long as has an internet connection. It makes food truck finder find a food truck location easier.

REFERENCE

Ehrenfeucht, R. (2017). Do food trucks and pedestrians conflict on urban streets? *Journal of Urban Design*, 22(2), 273–290. <https://doi.org/10.1080/13574809.2017.1281731>

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