

**UNIVERSITI TEKNOLOGI MARA**

**K-MEANS CLUSTERING AND  
VISUALIZING OF SIGNIFICANT  
WORDS PROTOTYPE FOR  
CROWDSOURCED RELATIONSHIP  
COMMENTS**

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**Thesis submitted in fulfillment of the requirements  
for bachelor of Computer Science (Hons)  
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## **SUPERVISOR'S APPROVAL**

### **K-MEANS CLUSTERING AND VISUALIZING OF SIGNIFICANT WORDS PROTOTYPE FOR CROWDSOURCED RELATIONSHIP COMMENTS**

BY

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This report was submitted under the supervision of the project supervisor, Mohammad Bakri Bin Che Haron. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons).

Approved by

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Mohammad Bakri bin Che Haron  
Project Supervisor

JUNE 23, 2015

## **STUDENT'S DECLARATION**

I certify that this report and the project to which it refers is the product of my own work and any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of discipline.

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## **ABSTRACT**

Having a love relationship is normal to the humankind. It is the most common emotion that human has. Nevertheless, conflicts often occur throughout the relationship. Conflicts occur due to lack of understanding between partners. The most common conflicts are the misunderstanding women's feeling from their partners. In spite of the conflicts, men would do anything that is possible to understand their partners in order to save their relationship, either going for relationship counselling, asking for opinion in social media, learn from other's experience or even seeking advice from family and friends. However, these conventional methods have their disadvantages. Therefore, this research proposed a K-means clustering and visualizing of significant words prototype for crowdsourced relationship comments. Crowdsourcing is the practice of obtaining needed content by asking contributions from a batch of people and typically from the online community. The comments are clustered using K-Means algorithm and visualized using scatter plot. Each plot represents a comment where each comment are coloured according to their cluster and significant words. Compared to the existing relationship website, most of the website did not give freedom for user to browse on comments that have same ideas as they are. Most of the website force user to follow the highly rated advice which may not applicable to the user. This project gives freedom for users to choose which comments or advice that is suitable for their situation as well as to give comments or advice anonymously. This project also identifies the common issues or topics has been discussed in the comments.