

Universiti Teknologi MARA

**The Development of Road Safety
Courseware (RSC) for Primary School
Students**

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**Thesis submitted in fulfilment of the requirements
for Bachelor of Information Technology (Hons.)
Business Computing Faculty of Computer and
Mathematical Sciences**

July 2022

ACKNOWLEDGEMENT

Alhamdulillah, first of all, I would like to thank Allah as finally I were able to finish my Final Year Project. This task had been done with all afford by me even though I am nearly to give up continuing this project. Luckily, I am not and successful to finished what I start first. To begin, I would like to express my heartfelt gratitude to Encik Zulkifli bin Halim for being an outstanding supervisor and guiding me through the process of completing these reports and projects. His vitality, vision, sincerity, and motivation have all been tremendous inspirations to me. Without his guidance and unwavering moral support, I would not have been able to complete this project. I want to express my gratitude to all my lecturers at the Faculty of Computer and Mathematical Sciences (FSKM), especially Sir Mohd Talmizie Bin Amron, who is my lecturer for the subjects Project Formulation (CSP 600) and (CSP650). I feel so grateful to him for providing all the great ideas, guidance, and ongoing support necessary to accomplish this project objective. Finally, I am eternally grateful to have such a fantastic family that has always been my most significant source of support and motivation. I also want to express my heartfelt gratitude to my classmates and close friends who helped me complete this final year project. Thank you from the bottom of my heart.

ABSTRACT

Multimedia applications are utilised in education as a source of data to provide students with learning tools. Applications that use multimedia are also used to enhance learning and boost interaction between students and lecturers or teachers. the problem that arose at Sekolah Kebangsaan Kind Edward VII (2) was that children were more vulnerable to other road users because they lack road safety experience. In addition, there are still children who practice dangerous behaviors on the road, use incorrect road positions and playing while on the road and the knowledge of road safety among parents is unsatisfactory because they assumed that the children aged 10 and below, know how to cross, understand about traffic lights very well and know about the position of the road well. So that, to enable students, receive greater exposure to PKJR through the development of this project, Nielson's Ten Heuristics Principles were used to develop the Road Safety Courseware (RSC). The research objectives are to identify the requirements of road safety courseware for the primary school students, to design and develop road safety courseware for the primary school students and to evaluate the user acceptance test towards the Road Safety Courseware. The RSC courseware created for students aged eight which is for Year 2 students. The ADDIE model was used to create the project. Five phases comprise this model: analysis, design, development, implementation, and evaluation. Three experts and 30 potential users are evaluating RSC. The developer project was tested by a single end user and the developer. Five categories comprise the user evaluation construct: usability, multimedia elements, navigation, content, and activities. The evaluation result indicates that respondents are satisfied with the courseware's usability, with a mean of 4.5 and a standard deviation of 0.61. By implementing this courseware, students will gain a better understanding about road safety. The recommendations for future improvement are adding more activities and games and improve the skills in making video so that user can watch the video attractively. Lastly, developer want to make this courseware offline so that all users can access this eLearning easily.

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