UNIVERSITI TEKNOLOGI MARA

Road Safety Awareness Using Gamification

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Thesis submitted in fulfillment of the requirements
for Bachelor of Computer Science (Hons.)
Multimedia Computing
Faculty of Computer and Mathematical Sciences

July 2018

ACKNOWLEDGEMENT

ABSTRACT

Road safety awareness using gamification is a game application with vision to improve children's knowledge about the reality of the road environment, road rules and improve their awareness on road safety by exploiting the emergence of application that is widely used today. Increasing numbers of road accidents occurred in Malaysia throughout the year has become the sign for us to flip this threatening condition and give awareness to the youth on how important is this matter and build good road manner community in the future. The purpose of this project is to increase road safety awareness and road rules knowledge among children using game approach. The increasing of larger audience among children that love games is seen as an opportunity for this approach to take action and utilize it as good as possible to reach the objectives. This project is developed with Unity game engine, C# language for the scripting, Autodesk Max3DS for modeling and aided by Adobe Photoshop. In addition, the application is build using Malay language since it is mainly focus for the Malaysian youth. The evaluation of this project is conduct through pre and post user testing whereas the users need to answer some questions related to the road knowledge within the game contents. The evaluation is carried out with intention to test the effectiveness of this approach and observe the result. The significance of this project is it helps to input more general knowledge on road safety and build better road community among children while they are able to enjoy the process.

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