

Universiti Teknologi MARA

DEVELOPMENT of 3D VIRTUAL ENVIRONMENT

For

TERATAI COLLEGE, UiTM SHAH ALAM

USING OPEN SOURCE PLATFORM

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DECLARATION

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledge in accordance with the standard referring practices of the discipline. It was submitted to the Faculty of Information Technology and Quantitative Science to fulfill the course requirement.

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ABSTRACT

Nowadays advances in computer graphics hardware algorithms, visualization and interactive techniques offer the components for high integrated and efficient real-time 3D Virtual Environment. Users having difficulty to imagine how the Teratai College looks like. Therefore a project for developing a web map that enables a user to connect in a virtual visit to Teratai College in UiTM Shah Alam is proposed. Another objective is to implement the virtual environment visit using open source platform which perhaps may generates more 3D project using open source platform. By applying the virtual tools and waterfall model approach methodology, necessary objects would be designed and rendered by. Once built, a user is able to move freely through the building interactively when the 3D objects save as *.wrl format can be access by using plug-in player in web format. VRML (Virtual Reality Modelling Language) has been employed to enable virtual reality application to be implemented on the web as the web maps into 3D environment. The employment of VRML in this context has shown its ability in helping users to meet specific requirement. User now may enjoy the virtual visit and experience by themselves the picture of Teratai College UiTM Shah Alam.

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