



HAJSIM

DESIGN AND DEVELOPMENT OF
AN IMMERSIVE HAJJ SIMULATOR
(PI 2012 700438)



DESCRIPTION

HajSim develops skills in performing rituals which somehow build their confidence and readiness to perform rituals. HajSim allows pilgrims to visualise new environments virtually within 3D context. Therefore, the simulator would indirectly improve the pilgrims' fitness level.



Needs

- a) 3 D simulator Hajj ritual activities.
- b) User-friendly interface, simple and easy operational system.
- c) Collaboration system- fitness assessment.
- d) Evaluation of energy consumption and nutritional guidance.
- e) Skill development and drill for practicing the Hajj and Umrah ritual activities.

Application

- a) Individual health-related physical fitness monitoring.
- b) Evaluation of energy expenditure and nutritional guidance.
- c) Training program for Hajj and Umrah ritual activities.

Benefits

- a) Can provide information based on individual fitness level among the pilgrims before they embarked on their Hajj journey.
- b) Facilities immersive environment of Hajj ritual using 3D Virtual Reality.

Targeted Market

- a) Lembaga Tabung Haji Malaysia.
- b) Travel Agencies for Hajj and Umrah.
- c) Medical and Health Cares Services.
- d) Department of Islamic Development Malaysia (JAKIM).



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