

Artificial Intelligent Base Virtual Learning Assistant

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E - Learning is the most effective learning method that includes a variety of tools on learning styles and helps students become more versatile learners. Proposed system will encourage active learning of students in online learning and would be able to handle this problem efficiently. Further, whenever user searches for a problem, system will automatically search required information from knowledge base and provide a solution to overcome the problem when user needs, thus, it is a user-friendly system. Currently in Sri Lanka, there is no any specific virtual learning platform that connects all university students. Therefore, the major objective of proposed system was to develop a platform that will connect all university students together as an effective communication portal for academic matters. This System was equipped with a virtual learning assistant called Jarvis. Thus, Windows + IIS + ASP.NET + MSSQL combination was used for fast, reliable and efficient E-Learning web application and also Artificial Intelligence Markup language (AIML) was used for virtual assistant. Initially, a system was developed based on selected best technologies for efficient e-learning application, then an Artificial Intelligence Markup language based virtual assistant was developed. Finally, all the components were bound to create a complete System. While the implementation of this system, the chatter bot answered the questions of students through speech. Consultants can teach their knowledge to Jarvis when necessary. The proposed system was successfully developed and also tested results complemented with the requirements.

Keywords: ELearning, Virtual assistant, AIML, Web application, Artificial Intelligent