GPS-BASED SAFE LOCATION GUIDING SYSTEM FOR USE DURING NATURAL DISASTERS

Perera M.P.L.[1*]

[1]Department of Software Engineering, Faculty of Computing and Technology, University of Kelaniya, Sri Lanka

*poornimalankani@gmail.com

Since the past started human activities enforced many natural disasters. Due to continuous change in geographic position and climate, countries situated near oceans are the most sensitive countries to natural disasters. The developing countries also lack an effective disaster alertness system to resist natural disasters. Disaster warnings and removal guidelines may save the lives of many peoples. Internet of Things (IoT) is a technology that connected anything and everything together to the Internet. IoT is the newest technology rapidly enlarge in its usage. This technology brings new products such as disaster intensive care. Flood and landslides disaster are the main concern in Sri Lanka because every year there are flood occurred. This research is to establish a Flood and landslides guidance system and to make the general public aware of such a disaster and to guide them to the nearest security spots. The major problem that has been identified in this research is the impossibility of arriving in a safe place and the lack of knowledge in case of floods and landslides. The probability of predicting a disaster is very unlikely, thus the resulting damage is immense. Once this scenario is taken into consideration, this research has identified some problems. Among them, the lack of preparedness for potential Flood and landslides, the lack of resources and the exotic staff have no idea of reacting and getting warning signals. But one of the major issues of this research is the inability to track Flood and landslides alerts and arrive at a safe place in the easiest way.

Keywords: *Natural disaster, Easiest way, Distance, Warning signals, Internet of Things*