

Information Retrieval for Pharmacy using Location Based Mobile System

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Abstract

Advances in wireless technology increase the number of mobile device users and give pace to the rapid development of e-commerce. In this technology, web services become very popular and used to communicate over the World Wide Web's HyperText Transfer Protocol. In this paper, a location-based mobile system for Android devices is proposed. The proposed system allows a user to find the positioning of pharmacy where has the drugs, he want to be purchased via a mobile. The Geo-position of the user's mobile device provides to produce location information of this proposed system. The flow of the proposed system is when user searches a medicine item, the system identifies the pharmacy location and searches the closest local pharmacy using Haversine Formula. After that, to get the medicine items from each local pharmacy with in stock information, the proposed system used Levenshtein Distance. The Levenshtein Distance provides correct spelling when the user typed with wrong spelling. Then, the pharmacy location which the user wants to go and buy can be viewed in the medicine item detail page using Google Map. According to the experimental results, the proposed system can achieve precise and minimum error in searching process and provide listing result with the locations of nearest pharmacy.