

# **WEATHER INFORMATION SYSTEM FOR FARMERS BASED ON WAP TECHNOLOGY**

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Master of Science (Information Technology)  
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## **ABSTRACT**

The WAP application is an application that is accessed via mobile device over a wireless network; this technology has been rapidly growing and distributed in different environments and has basically affected our lives directly and indirectly. This study carried out an investigation into the Weather Information System for Farmers based on WAP Technology to simplify the weather queries via the mobile device. Furthermore the proposed application would be able to save the time and effort of the farmers in checking the required weather changes. The WAP Weather Information System was developed based on WML and ASP mobile programming architecture; furthermore, the usability testing results were obtained to determine the system usefulness. Finally, the WAP Weather Information System may help the farmers by providing them with useful functions, such as weather news, product price, and local news.

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This chapter briefly presents the main idea of this work, detailing the questions and main elements involved in the study. The first sub-topic describes the overall idea in this study through the scenario and the introduction that lead to the implementation of the whole project. This is followed by the problem statement, objectives of the study, scope of the study, and significance of the study. The final section elaborates the way this report is organised.

## **1.0 Introduction**

The purpose of Wireless Application Protocol (WAP) was designed to facilitate the manufacturers, vendors, and technology users around the world to independently access the Internet and advanced telephony services (Elalfy, 2005). WAP technology is capable of eliminating the gap between mobile devices and the Internet, and thus can provide and cater for mobile services.

In the context of the agricultural farmers in Kedah, they normally go to their plantations with minimum technology capability without knowing the weather status and changes. Moreover, different studies have illustrated the impact of weather changes on the farmer's performance and ultimately output. The WAP

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