

Accident Reporting System Using an iOS Application

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ABSTRACT

This thesis presents an accident reporting system using an iOS application. This mobile application is developed for Alstom Company. Currently, accidents and incidents in workplace was reported on a standard paper form but it consumes a lot of time because all the accident detail need to be write on paper form before submitted to the safety officer. There were often delays in submitting reports and difficulties in retrieving them back for analyzing purpose. Besides, report by using paper also consumes a lot of paper, which is not environmental friendly. This application was developed using Xcode SDK 5.1 focusing on device with iOS 7 as their operating system. The mobile application allows people with iOS devices such as iPhone or iPad to report an accident or incident in the workplace and then send the report via email to the Safety and Health Officer. Hence, this application makes accident reporting task become more efficient for immediate action to be taken.

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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

Occupational Safety and Health (OSH) is an area concerning on providing safety working environment and reduce or prevent an occupational hazard at workplace. An occupational hazard is a thing or situation with the potential to harm a worker. Occupational hazards can be divided into two (2) categories safety hazards and health hazards. A safety hazard is anything that has the potential to cause harm, which physically injure workers whereas health hazard is anything that has the potential to cause harm, which result in the development of disease. There are many potential hazards at workplace such as working at height, housekeeping, machinery and tools, heavy lifting, confined space entry, dangerous chemical, noise, fire and electrical [1].

These potential hazards could lead to an accident at the workplace. There are many types of accident that might occur at the workplace. Some accident may lead to minor injuries and some can be major or fatal. Everyone in a workplace shares responsibility to report as quickly as possible to the safety officer when involve in accident directly or indirectly.

Malaysia's Occupational Safety and Health law – the Occupational Safety and Health Act 1994 (Act 514) requires notification from employer to the nearest occupational safety and health office of any accident, dangerous occurrence, occupational poisoning or occupational disease which has occurred or is likely to occur at the place of