

**SAFETY AND HEALTH INSPECTION CHECKLIST IOS  
APPLICATION**

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## **ABSTRACT**

This thesis presents the safety and health inspection checklist iOS application. Industrial safety officer usually face the problem of inefficient safety inspection procedure due to the hassle of completing a conventional checklist form. This often hinders a seamless inspection reporting and analyzing process from being carried out. The safety and health inspection checklist is fully developed using Xcode SDK. The development of the project reached the target of building a user log in function with create new account feature, a table with 14 categories of the respective area of concern in safety and the details option for the each of the inspection process. Using this application, user or safety officer can simply select the inspection specific concern, complete the inspection details, and finally save the inspection report on the device for further reference. As using this application is much more efficient and less time-consuming for the inspection purpose, user or safety officer can now spend more of their precious time for other urgent matter regarding safety and health.

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# CHAPTER 1

## INTRODUCTION

### 1.1 INTRODUCTION

Occupational Safety and Health refers to a set of rules, regulations or good practice that will prevent people being harmed at workplace [1].

Any situation or organization that can cause harm is known as 'hazard'. There are many potential hazards at workplace. Examples include moving parts in machinery, chemicals, excessive noise, falls, heavy lifting, and repetitive movements [1]. Malaysia's occupational safety and health law - the Occupational Safety and Health Act 1994 (Act 514) [2] - requires people in workplaces to have a system for identifying hazards and taking steps to prevent harm by removing, minimizing or controlling hazards.

An occupational health and safety system defines the roles of people in the workplace like managers and employee representatives. It also covers the maintenance of documentation and records such as a workplace's health and safety policy. The system shows and provides guidance on how a workplace will be made safe and healthy for all.

A safety inspection is a formalized and properly documented process of identifying hazards in the workplace [3]. Safety inspections usually come in many different forms depending on the environment being tested, but generally they compare results against certain standards to ensure that the specified environment lies within acceptable safety limits.

There are many types of safety inspections. Some inspections are carried out to check vehicle safety, some to inspect industrial plants, and others are carried out to identify hazards in the workplace or office buildings. Most safety inspections involve a checklist, which helps inspectors thoroughly assess each area or potential hazard and pinpoint specific instances that may cause critical safety issues later on.