INDUSTRIAL TRAINING SYSTEM
(IND-TRAIN)

SAUFIDATUL AILIN BINTI RUSLI

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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# INDUSTRIAL TRAINING SYSTEM (IND-TRAIN)

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This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Software Development)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2010

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DECLARATION

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# ABSTRACT

Industrial Training system (IND-TRAIN) is a system to help final year student in Faculty Information Communication and Technology(FICT) to seek for companies for their industrial training. This system also helps company to seek for the student to practical in their company. There are many complaints from students who difficult to find companies for their industrial training. Thus, by developing this system, at least it is help them to seek for company that they want.

This system consists of three user that is student, admin and company. Student and company need to register first and in registration part, both of them need to upload resume and requirement respectively. Student can view list of company and download the requirement whereas company can view and download the resume of student for reference. Admin is function to add new advertisement for student to view.

By developing this system, hopefully can help students and company to get what they want for industrial training.


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# CHAPTER I

# INTRODUCTION

## 1.1 Project Background

Universiti Teknikal Malaysia Melaka (UTeM) was formerly known as Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM) and was established on 1 December 2000. After the re-branding of KUTKM it is now known as UTeM commencing 1 February 2007. There are seven faculties in UTeM such as Faculty of Electronic and Computer Engineering, Faculty of Mechanical Engineering, Faculty of Manufacturing Engineering, Faculty of technology Management and Technopreneurshihp, Centre for Languages and Human Development and lastly is a faculty that will involve in this web project that is Faculty of Information and Communication Technology.

Faculty of Information and Communication Technology offers program for undergraduate and post graduate. FICT is one of the pioneer faculties developed when Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM) was established on 1st December 2000. It was operated with its first intake in June 2001. Starting from 1st February 2007, KUTKM is known as Universiti Teknikal Malaysia Melaka (UTeM). FICT is comprised of four departments such as Software Engineering, Computer System and Communication, Interactive Media and Industrial Computing. Courses offered by the faculty are divided to two which are for diploma and degree. For diploma course, Diploma in Information and Communication Technology is offered whereas for degree are Bachelor of Computer Science (Software Development), Bachelor of Computer

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Science (Database Management), Bachelor of Computer Science (Interactive Media), Bachelor of Computer Science (Computer Networking), and Bachelor of Computer Science (Artificial Intelligent). [1]

Every year, there are final students from FICT will seek for the companies for industrial training but not all students will find the suitable company and sometimes they do not have enough information about the company for practical.

With the requirements from lecturers and some helps from other student who seek for companies for industrial training, a web for this purpose will be developed in order to help students to find the companies that they want for industrial training. The web system is called IND-TRAIN which stands to Industrial Training System that allows students to upload their resume or just fill the resume form provided by system and choose the companies that they want. This web also allows the companies to upload their requirements. Administrator for this system is responsible to update the information of the companies of industrial training due to the dates of practical for degree and diploma students is totally differ.

There are three kinds of users such as administrator, student and company. For student, there are three modules involves such as login, view company and upload resume. For company, there are some modules involves such as registration, login and upload requirement. Administrator modules consist of log in, adding and update the announcements for students.

This IND-TRAIN is modeled according to the object-oriented Analysis and Design(OOAD) techniques which is the best approach for this system because the technique is based on Unified Modeling Language(UML). By using this UML, the system will be characterized by its class, data elements and behavior. Besides, UML represent the system modules and construct the use case, activity diagram, sequence diagram and class diagram. The object oriented analysis (OOA) will analyze the functional requirements and focus the flow of system while the object-oriented design (OOD) will elaborate the analysis module to produce implementation specification in order to analyze the non-functional requirements such as usability, standards, qualities and others.

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Project requirements needs in this system includes software and hardware requirements. For software requirements the system needs equipment tools such as Microsoft Window XP, Dreamweaver CS3 and Adobe Photoshop whereas the hardware requirements include PC or computer to develop the system as client-server application.

## 1.2 Problem Statement

The IND-TRAIN will be developed based on the problems that occur among students. The problems are stated as below:

1) **Students have difficulties to seek the suitable places for industrial training.**
   In final year, all students need to find company for industrial training and not all students will find the suitable places for that purpose due to lack of information about companies in Malaysia. With the existence of this web, it is indirectly will help the students find company for practical.

2) **Companies have difficulties to find students for industrial training.**
   With the existence of this web, company can find students for practical by adding some requirements needed and can select students based on the requirements. At least, companies that advertise their requirements in this web are well-known among students in UTeM.

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## 1.3 Objectives

Regarding the problem statements above, the main goal of developing the IND-TRAIN is to enable students to get information easily about companies. Therefore, the objective of the system as follow:

i. **To develop a website that can help students seeking for information of company for the purpose of industrial training.**

By referring this web, students enable to find information about companies who need the practical student and from there student can choose the suitable company that they want based on the requirement of company.

ii. **To provide a website for companies to seek students in UTeM for industrial training based on the company's requirements.**

By giving the requirements that the company want, the company can easily find students for industrial training in their place.

iii. **To display information of working environment in any company**

Originally purpose of this web is to help student find companies for practical purpose but indirectly, this way will prepare students for working environment in industry nowadays. From this web, students at least know what industry wants from them before hire them for a job. This will make them always being in well-prepared condition.

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## 1.4 Scope

Project scope of this system is focused on web that will provide information about industrial training places or companies for final year students in FICT who wants to do their industrial training in order to allow companies seek for the students that want to practical in their company.

The module of this system has been divided into three parts as following:

**Part 1: Student**

i. **Login**

This module provides student to login by inserting their ID and password before access this web. Students should register first by fill all fields required then upload their resume there.

ii. **View Companies**

Student is just allowed to view the companies, and download the requirements.

iii. **Upload Resume.**

Student is required to upload resume for company reference.

iv. **Email**

The medium between student and company to communicate each other.

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**Part 2: Company**

i. **Registration and Login**

Any new company who wanted to find student for industrial training where required registering before accessing this system. In this registration part, company need to uploads their requirements.

ii. **View and download resume students.**

Companies who interest to students to practical in their places can download resume from this web.

iii. **Email**

The medium between student and company

**Part 3: Administrator**

i. **Login**

Administrator need to log in before access the whole system and proceed for the next operations.

ii. **Announcement adding**

This module is provided to allow administrator to give announcement about other news perhaps about current companies or about students itself. The announcement need to be updated for students.

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## 1.5 Project Significant

This IND-TRAIN system helps students in FICT UTeM to find a place for practical and get information about companies easily. Other than that, company also can seek for students who want to practical in their company.

This will help students and company select the suitable choices and indirectly FICT student will always updated about what industry wants nowadays as requirements so that they will always prepare before start a job and being in working environment.

## 1.6 Expected Output

After IND-TRAIN is developed, user can expect that the system:

1. **Apply to be a secure system**
   Before entering system, staff need login before proceed next operations.

2. **Being a good medium to help students find a suitable company for practical.**
   As all points stated above, it is clearly that this web enable students to find place for industrial training easily in order to prepare themselves for working environment.

3. **Being a good medium for companies to seek students for industrial training.**
   Company enables to give requirements that they wants from the students for industrial training.

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## 1.7 Conclusion

This chapter contains details description of the propose project called IND-TRAIN. From this chapter, all problems faced by students and company have been identified and the scope and objectives of project has clearly defined. Chapter II will discuss about literature review and the methodology that will be used in this system.

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# CHAPTER II

# PROJECT METHODOLOGY

## 2.1 Introduction

Industrial Training refers to work experience that is relevant to professional development prior to graduation. Students should note that Industrial Training is an essential component in the development of the practical and professional skills and an aid to prospective employment. Many employers regard this period as a chance to vet new employees for future employment.

The objectives of Industrial Training are to expose students to experience and knowledge which is required in industry, where these are not taught in the lecture rooms. That is the skills needed by students in order to be a good worker in industry in future. Secondly, the experience that students get from the industrial training can be used in discussion in lecture rooms. From the discussion, they can share the feel of working environment with others friends.[2]

Industrial training also gives students an experience on writing a report during working or doing project. With all that knowledge and experience, it is hoped at the students will be able to choose appropriate work upon graduation.

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