

**WEB BASED STUDENTS' ATTENDANCE SYSTEM (WSAS)**

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**UNIVERSITI UTARA MALAYSIA**

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# **WEB BASED STUDENTS' ATTENDANCE SYSTEM (WSAS)**

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## **ABSTRACT**

A web based students' attendance system is an appropriate solution for teachers and parents to inform the parents about their students' attendance status in school via SMS and Email services as well as to enhance the communication between teachers and parents. Research Design Methodology was adopted in this project with its five stages, which includes: Awareness of problem, Suggestion (integrated with System Development Methodology), Development (integrated with Object Oriented Development Life Cycle approach), Evaluation, and Conclusion. The prototype was developed to determine, analysis, test, and validate the user's requirements in order to rate the usability test of this system. Furthermore, the prototype was evaluated by using USE questionnaire and the usability results was presented and discussed as well.

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## LIST OF ABBREVIATIONS

<b>Acronym</b>	<b>Definition</b>
3G	Third Generation
ANSI	American National Standards Institute
BS	Base Station
CMS	Content Management System
DBMS	Database Management System
DCL	Data Control Language
DDL	Data Definition Language
DML	Data Manipulation Language
GSM	Global System for Mobile communications
HTML	Hypertext Markup Language
HTTP	Hypertext Transfer Protocol
ID	Identification
IIS	Internet Information Services
IMAP	Internet Message Access Protocol
IS	Information Systems
ISO	International Standards Organization
JSP	Java Server Page
JVC	Java Virtual Machine
MAC	Media Access Control
MIS	Management Information Systems
MS	Mobile Station
MSC	Mobile Switching Center
MVC	Model – View – Controller
NFS	Network File System
POP	Post Office Protocol

RIFD	Radio Frequency Identification
RUP	Rational Unified Process
SMS	Short Message Service
SMSC	Short Message Service Center
SMTP	Simple Mail Transfer Protocol
SPSS	Statistical Package for the Social Sciences
SQL	Structured Query Language
UK	United Kingdom
UML	Unified Modeling Language
URLs	Uniform Resource Locators
USB	Universal Serial Bus
WCMS	Web Content Management Systems
WSAS	Web Based Student's Attendance System

## **CHAPTER ONE**

### **INTRODUCTION**

This chapter gives an overview about this project. The chapter sheds light on problem statement, research objectives, research questions, scope, and significance of this project.

#### **1.1 OVERVIEW**

There is no doubt that the education plays a vital role in development of a nation and most of developed countries have adopted the development of education to keep abreast of progression in different fields. According to Alam (2009), education has contributed through improved participation in economics, culture and social roles in society as well as improved understanding of an individual by means increasing people's awareness of their environments.

In education area, technology plays several roles such as accessing to the resources of educational, sharing the resources of academic, improving the quality of learning, and improving efficient management of education. Hence, the application of technology can be divided into two main areas: the learning process and the management of the learning process (Twinomugisha, 2003). Internet is the most important technology that can be widely used as a tool to communicate between different locations regardless what kind of operating system and machine that are used to access the information. Therefore, most organizations have tended to use the web-based application due to

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only

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