UNIVERSITI TEKNOLOGI MARA

ADMINISTRATIVE PLATFORM FOR ONLINE TUTORING BY USING RUBY ON RAILS

MUHAMMAD ARIS ADHAM BIN MISRI 2016351641

BACHELOR OF COMPUTER SCIENCE (Hons.) NETCENTRIC COMPUTING

Table of Contents

SUPERVISOR'S APPROVAL	i
STUDENT'S DECLARATION	ii
ACKNOWLEDGEMENT	iii
Abstract	iv
CHAPTER 1	1
CMethodology	1
INTRODUCTION	1
1.1 Project Background	1
Tutor	1
Tutoring	1
Online tutoring	1
1.2 Problem Statement	2
1.3 Aim	2
1.4 Objective	3
1.5 Project Scope	3
1.6 Project Significance	4
1.7 Summary	5
2.1 Introduction	6
2.2 Technologies	6
2.2.1 Platforms	6
2.2.2 Programming Language in Application Development	6
2.2.3 Frameworks	8
2.2.4 Virtual Classroom	9
2.2.5 Databases	9
2.3 Comparison of Related Works	10
2.3.1 Distance Education: A Systems View of Online Learning (Michael, G., Moore, Greg, Kearsley, Q. N., 2011)	
2.3.2 Varsity Tutor mobile application on Google Play	11
2.3.3 Many Tutor mobile application in Google Play	11
2.3.4 Wyzant.com	12
2.3.5 Roles and Competencies of the e-Tutor (Denis, B., Watland, P., Pirotte, S., & Verday, N., 2004)	13
2.3.6 Mobile: Native Apps, Web Apps and Hybrid Apps (Budiu, R., 2013)	

ACKNOWLEDGEMENT

In the name of Allah, the Most Merciful and the Most Compassionate.

My utmost gratitude goes to the Almighty for His blessing has allowed me to successfully finish this report of subject (CSP600 – Final Year Project) in the time given. Alhamdulillah, without His help, this report cannot be completed. The purpose of this paper is to fulfil the requirements for the Bachelor of Science (Hons.) (Netcentric Computing), UiTM.

A lot of thanks to everyone that involve in my proposed research dedicated to my supervisor, Madam Shapina Hj Abdullah for her guidance, support and her continuous enthusiasm and encouragement throughout in order to complete the Administrative Platform for Online Tutoring by Using Ruby On Rails report and the system itself.

Lastly, heartiest thanks to my beloved parents, friends and also everyone who help directly or indirectly that support me to complete this report.

Abstract

Within this current era and technologies, looking for advertisement when in look for a tutor seem too much of a nuisances. Not just that, it is also harder for the tutor to look for student when they only relying on flyers and pamphlet. Research/study material also hard to retrieve and cost a lot. Besides that, the use of physical book seem outdated and physically burdening. The purpose of the project is to provide a platform where it's easier for student and tutor to assign with each other. Other than that , the platform also provide research and study material in form of electronic file/document like the .pdf , .doc and .ppt .The project will be builds as web application so that it will be easier for user to access into it whether by computer or mobile. Ruby on Rails will be used to develop the web application for online tutoring. It is because Rails is good for rapid application development (RAD), as the framework makes it easy to accommodate changes. Last but not least, the project is intended to make it easier for user to pursue knowledge via online tutoring.

CHAPTER 1

INTRODUCTION

This chapter will provide an overview of the research project and discuss about the research background, current problem statements, research objectives, project scope, significance of research and limitation of research.

1.1 Project Background

Research background for the project can be defined by different view and perspective like the definition of tutor and tutoring and also include the definition of online tutoring.

Tutor

Tutor is a teacher who teaches a child outside of school, especially in order to give the child extra help with a subject they find difficult. Tutor is an entity that identified by public as an individual who give extra teaching outside schools.

Tutoring

Tutoring is a remedial or additional teaching, designed to help people who need extra help with their studies. Tutoring have long been done in educational field or area. The method of tutoring itself is one of the method that can be used to escape from impracticality that can be found in school.

Online tutoring

Online tutoring is the means of teaching people within a virtual environment online and separates the student and teacher. This kind of approach to teaching

1