

Final Year Project Report
Payamber –the new era of e-learning



Project Advisor:Tahreem Yasir

Submitted By:

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Dedication

We're dedicating this project to our beloved parents because of their support, and our University including all faculty members as they provide us the right platform and encourage us till the completion of Payamber.

Final Approval

Panel of Examiners

- 1) **Head of Department** _____
Department of Computer Science
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- 2) **Program Director (Final Year Projects)** _____
Department of Computer Science
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- 3) **Supervisor** _____
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- 4) **Co-Supervisor** _____

Acknowledgment

All praise for Allah Almighty who bestowed us with such a brilliant idea and gave us the wisdom to convert it to such a successful project.

Our first and sincere appreciation goes to **Ms. Tahreem Yasir-project advisor** for all we've learned from him and for his continuous support throughout the project and for encouraging us by providing his time.

We would also like to thank **Ms. Tanzeela Shakeel- project co-advisor** for her support during the project.

We are also very thankful to **Sir Rehmat-Chief Coordinator, Institute of ResearchPromotion (IRP)** who keep on motivating us that we can accomplish Our goal of developing e-learning System. After completion of project, we Receive appreciation from him in the sense of taking our project to next level for this The purpose they are ready to give us assistance to apply for ICT R&D funding.

Payamber	
Objective	To provide effective virtual learning system
Undertake by	Rehman Ali, Ali Arshad, Khaleel Ahmed, Fahad Munir
Supervised by	Ms. Tehreem Yasir
Starting Date	10 th Nov 2015
Completion Date	31 st Aug 2016
Tools Used	<ol style="list-style-type: none"> 1. Free switch – VoIP Server 2. MS SQL Server 2014 or up 3. Entity Framework 4. .net Framework 5. MS Windows Server
Operating System	Windows (Version 8 and 10)
Documentation	Microsoft Office

Abstract

“Technology is the campfire around which we tell our stories” – Laurie Anderson

Since the ancient times, people use to communicate with each other through post such as letters; to some extent, this system is still in practice. It is very slow mean of communication; during this modern era minimum, a whole day is required in delivering your postal mails. After the creation of internet, in 1978 first proper email was casted using internet instead of postal, yes, the era of emails starts from that moment; then this evolves to the extent of SMS (Short Message Service), MMS (Multimedia Message Service) and then IM (Internet Message), then VoIP (Voice over Internet Protocol) took birth in 1996. All communication applications we have these days are built using the IM and VoIP technologies, most popular examples are Skype Messenger, WhatsApp, Viber, Facebook Messenger, IMO, Line, etc. This evolution of technology has compressed the distances to zero. You want to talk to someone just start your app and call to that particular person in no time, you can either have video conversations or audio calls with your loved ones.

There is a group who didn't suffice on all this; they want to use the technology for more productive manners. As the concepts of “virtualclassrooms” and “virtualoffices” are remarkably defining their importance in our education sector and corporate sector respectively. Due to which they are craving for such a strong solution which can handle their virtual environment effectively.

Payamber will satisfy them as this system will have the capability that it can fulfill all of their needs. We are developing this system by properly analyzing all of the prospects of the education sector as well as corporate sector. Payamber will consist the following two basic components:

- ✓ Conference Call
- ✓ Content Management System

Other than aforementioned components Payamber will have the following capabilities:

- ✓ In-call whiteboard
- ✓ In-call PowerPoint slideshow
- ✓ Role base membership service
- ✓ Call recording service
- ✓ Automatic uploading of call recordings to YouTube

Payamber will be the efficient lightweight system which can be hosted on either intranet or the internet, a web-based system which will be developed in ASP.net MVC 5 and after the 1st quarter of 2016, we will migrate it to ASP.net vNext so that our potential and existing clients can be able to have the latest technology for their organization. For the database, we will use MS SQL Server 2014 or above and for VoIP, a centralized server of CentOS with aFree switch will be used.

As said afore Payamber is meant to be for education and corporate sector, for this we are brainstorming on this that either we combine both sectors in one edition or release two different editions for those two sectors separately. We will do consensus on this very soon. Whatever the decision will be, but it will be benchmark system of its own kind.

REVISION CHART

Version	Primary Author(s)	Description of Version	Date Completed
<i>Draft</i>	TBD	Initial draft created for distribution and review comments	February 11, 2016
<i>Preliminary</i>	TBD	Second draft incorporating initial review comments, distributed for final review	March 15, 2016
<i>Final</i>	TBD	First complete draft, which is placed under change control	November 15, 2016

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1. INTRODUCTION

Payamber is the complete solution for Virtual Universities or Virtual Offices. It provides a reliable and efficient communication platform as well as content management system.

1.1 PROJECT OVERVIEW

Payamber (پیامبر) is the Urdu language word which means messenger. Yes, the foundation of Payamber is that it is a messenger. But it is not a messenger like other messengers such as Skype, WhatsApp, Messenger by Facebook, Line, etc. It is the project not for normal users. We designed this project for the **corporate** sector as well as **education** sector. It has the following features:

- ✓ Call recording either voice call or video call
- ✓ Content management system
- ✓ Blackboard and Projector for each session, which will also be recorded with the call as well
- ✓ Personalized pages