

Final Year Project Report

Hearing impaired solutions



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Session

2011-2015

School of Science and Technology

University of Management and Technology

C-II Johar Town Lahore Pakistan

Dedication

This project is dedicated to those providing ongoing support, encouragement and advocacy for parents, professionals, and other interested parties working for hearing impaired people.

Final Approval

Panel of Examiners

1) **Head of Department** _____

Department of Computer Science
UMT Lahore

2) **Program Director (Final Year Projects)** _____

Department of Computer Science
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3) **Supervisor** _____

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4) **Co-Supervisor** _____

5) **External Examiner** _____

6) Controller of Examinations

Acknowledgment

This project consumed huge amount of work and dedication. Still, implementation would not have been possible if we did not have a support of many individuals. Therefore we would like to extend our sincere gratitude to all of them.

First of all we are thankful to our project advisor Miss Nadia Yousaf and Co-advisor Miss Aqsa Ali for their support and for providing necessary guidance concerning project implementation. Nevertheless, we express our gratitude toward our families, teachers and colleagues for their kind co-operation and encouragement which help us in completion of this project.

Last but not the least we wish to avail this opportunity to appreciate and give a special thanks to every team member for their supportive contribution, project enhancing comments and tips that improved the presentation skills, report writing and brought about clarity in the software work.

Project Title Hearing impaired solutions

Objective

This project is basically a web base project in which we will provide sign learning video lectures. Hearing impaired and normal people can watch videos and learn sign language they want to learn. Website contains lectures of multi sign languages so users can chose his/her desired learning sign language.

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Starting Date 23-09-14

Completion Date 22-08-15

Tools Used Visual studio, Microsoft Visio, Drawio, Lucidcharts

Operating System

Windows 8 and 8.1

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1. INTRODUCTION

Our daily life is generally vocal, but body language has its own significance, like hand gestures, facial expressions and sometimes they play an important role in conveying the information. Sign language would be an ideal option for expressing the feelings, or in order to convey something, like representing a number. It has many areas of application like sign languages are used for various purposes and in case of people who are deaf and dumb, sign language plays an important role. Gestures are the very first form of communication. So this area influenced us very much to carry on the further work to implement a sign language learning system. Sign language can be useful in minimizing the communication gap between hearing impaired and the normal people. Normal people are usually unaware of sign language grammars; it is very difficult for them to understand what a hearing impaired person is trying to communicate. As a result, communication of a hearing impaired person is usually limited only within the family or his/her deaf community. Our goal is to provide a platform for normal and hearing impaired persons; where they can learn the sign communication. Hearing impaired person would be able to train him by following the lessons provided by the sign system he/she is following e.g. ISL, ASL, ArSL and BSL. A normal person e.g. mother or father of the child can also start learning. Our website will provide learning to both normal and deaf/dumb of different region trying to learn different signs communication at one platform named "Hearing impaired solutions".