

ISP SETUP

“Research on Linux based ISP’s of Pakistan”

By

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Supervised By

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A report is submitted to the Department of Computer Science,
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In partial fulfillment of Requirement for the degree of BCS

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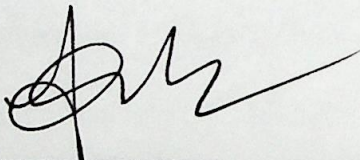
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

“IN THE NAME OF ALLAH THE MOST GRACIOUS, THE MOST MERCIFUL”

“The sovereignty of knowledge, wisdom and power rests with ‘ALLAH’ almighty, and we act upon the knowledge that He provides to lead better lives that He as blessed us with, and without a doubt our actions and the thought behind them are known to Him, and with the humblest of words and deeds we thank Him for His blessings but no matter how much we try we will not be able to thank Him in entirety for his blessings.”

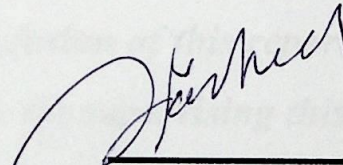
Certificate

We accept the work contained in this report as a confirmation to the required standard for the partial fulfillment of the degree of BCS

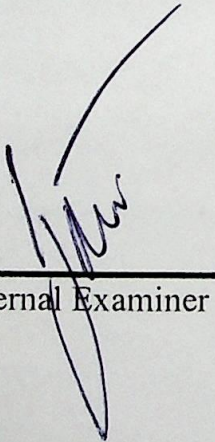


Head of Department

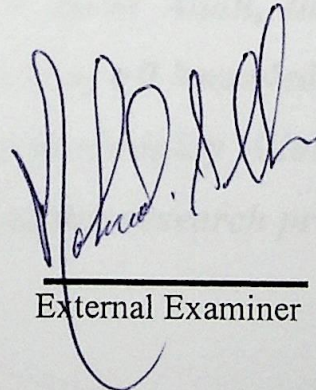
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Supervisor



Internal Examiner



External Examiner

ACKNOWLEDGEMENT

With great respect and obedience I thank almighty ALLAH for with His will and help all things are possible and for the blessings bestowed upon me, which encouraged and made me able enough to complete this long, complex and difficult task to the best of my abilities and knowledge. Also I am deeply and heart fully thank full to my friends, teachers and especially to Mr. Rashid Karim for without their help and encouragement I may not have been able to complete this colossal task, and last but not the least I thank with deepest respect and gratitude MR. Fazal Wahab for his continuous concern that finally led to the completion of this report. Again I thank with great gratitude MR. Rashid Karim for supervising this project and for his flawless guidance.

Again with the humblest and sincerest words I thank Allah, the most merciful and compassionate, who is entire source of all knowledge and wisdom to mankind. I bow my head in gratitude to almighty Allah. Who bestowed on us the potential and ability to complete this research project.

DEDICATION

This project is dedicated to my parents, to my brothers and sisters, to my teachers and to my friends. All of them have shown patience and support for me throughout my life and have helped and guided me by carrying me through down trodden and difficult times of my life, although I can never repay whatever these people have done for me, I wish them all the happiness, love and care that they have given me.

And if ever I am given a chance to choose a life all over again it will definitely have all of them.

PROJECT ABSTRACT

ISP technology is based on Internet operating system whereby information /data is routed in the form of packets through the Internet. Keeping in view the vital role of ISP's I have tried to the best of my knowledge and abilities to cover each and every aspect of its setup in this report.

This report is in accordance to the fulfillment of a final year project proposal. The project that was undertaken in this regard was a research project and encompasses a detailed technical analysis regarding the general setup of Internet Service Providers in Pakistan.

This report primarily deals with the platforms, Technologies and the principle working of an ISP. This is a technical report and holds a wide variety of technically oriented terms, aspects and may conform to the existence of some technical background learning and knowledge in order to fully understand the text material provided in this report.

Although I have tried to the best of my ability and knowledge to make the language and other technical details more easy to understand and more effective by the help and use of elaborate, correct and neat diagrams.

Generally ISP's are more business-oriented organizations making use of the computer communication and networking technologies as a means of providing different services. Therefore they maintain a certain managerial hierarchy and business rules that are definitely required by every organization these days to both function and prosper in terms of maintenance and financial growth, but this project report has been specifically oriented designed and produced keeping in view the technical aspects related to computer science functioning of an ISP. Hence this report does not offer any hierarical setup or plan that provides a business-oriented outlook.