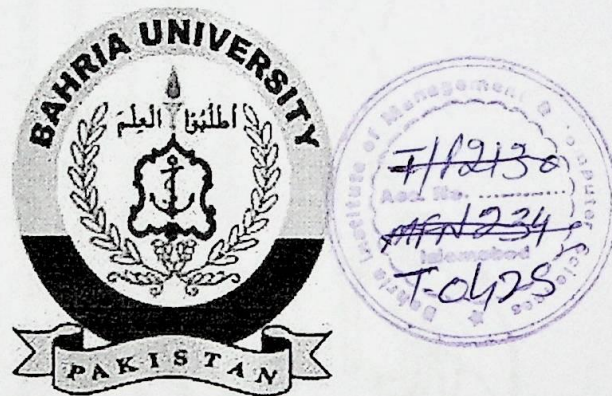


Virtual Operating System

(HARD DISK, SCHEDULING & NETWORK SIMULATION)



By

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Supervised by

Saima Jawad

*A report is submitted to the Department of Computer Science,
Bahria Institute of Management & Computer Science, Islamabad.
In partial fulfillment of requirement of the degree of
MCS (Software Engineering)*

**Department of Computer Science
Bahria Institute of Management and Computer Science, Islamabad
Bahria University Islamabad**



In the name of Allah The Most Gracious The Most Merciful

Verily we have granted thee manifest Victory: That Allah may forgive thee thy faults of the past and those to follow; fulfill His favor to thee and guide thee on the Straight Way; and that Allah may help thee with powerful help. It is He Who sent down Tranquility into the heart of the Believers that they may add Faith to their Faith; for to Allah belong the Forces of heaven and Allah is full of Knowledge and Wisdom.

(AL-QURAN 48:1-4)

Dedication

To our loving **PARENTS** whose prayers are always with
us and our success is due to them

“My Lord”, Have Mercy on them (Parents) both as they did care for me when I was little.

(AL-QURAN 17: 24)

Acknowledgment

First of all we are indebted to **Almighty Allah**, Lord of Creations, Creator of our lives and of everything in the Universe and **Holy Prophet Muhammad (S.A.W)** Whose blessings enabled us to perceive and pursuit higher ideas of lire, who has given us the courage insight and knowledge to complete this project.

We would like to acknowledge the help of persons who helped us in our project and in our educational career especially **Madam Saima Jawad** for supervising us in this project, and all other teachers for helping us in the development and documentation of this project, we can never forget these teachers due to their politeness and suggestions which will remain guiding us.

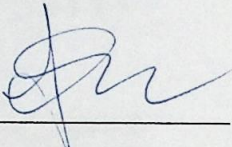
The account of our acknowledgement will remains incomplete if we do not express our sincere appreciations and gratitude to our parents whose deep love and utmost care cherished our lives, their prayers and concern has always been a source of inspiration to us throughout our academic career.

We would like to say thanks to our friends!

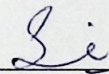
Shafiq ur Rehman, Hameed ul allah, Faisal Munir, Aysha, Arshad Raheem, Hajra Saeed, Raja Khaleeq Ahrned, Rizwan Khan, Rizwan Aamir, Khalid Khattak, Waqar, Shahzada Farhad, Atif Siddique and Hamid Mahmood for their sincere appreciations, gratitude and moral support.

Certificate

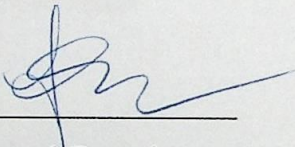
We accept the work contained in this report as a conforming to the required standers for the practical fulfillment of the degree of Master of Computer Science in the subject of Software Engineering.



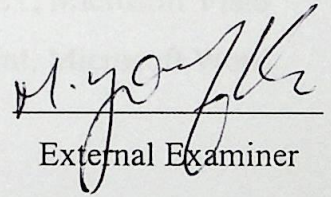
Head of Department



Supervisor



Internal Examiner



External Examiner

Project Brief

Project title	Virtual Operating System
Under Taken By	Mansoor Ahmed Khan, Muhammad Rashid Asad Chishti
Supervised By	Mrs. Saima Jawad
Starting Month	June, 2003
Completion Month	January, 2004
Software Used	Visual C#, Visual Studio .NET, Microsoft Visio Rational Rose, Microsoft Paint, Microsoft Word
Operating System	Windows 2000, Window XP
System Used	P-III

Abstract

An operating system is a program that acts as an intermediary between a computer user and the computer hardware. The purpose of an operating system is to provide an environment in which a user can execute programs. The primary goal of an operating system is thus to make the computer system convenient to use. A secondary goal is to use the computer hardware in an efficient manner.

The aim of this project is that students not only learn the O.S. routines, algorithms and hardware theoretically but also can observe these things through Virtual Operating System as it represents all these things graphically, which can enhance their learning. Teachers can also use Virtual Operating System to elaborate the difficult concepts while teaching operating system.

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