

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belagavi - 590 018



PROJECT REPORT ON
Title of the Project

*Thesis submitted in partial fulfillment for the Award of Degree of
Bachelor of Engineering*

in
Electronics and Communication Engineering

Submitted by

Name1	1RN16EC
Name2	1RN16EC
Name3	1RN16EC
Name4	1RN16EC

Under the Guidance of

Name

Designation



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
(Accredited by NBA for the Academic years 2018-19, 2019-20 and 2020-21)

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Channasandra, Dr.Vishnuvardhan Road, Bengaluru-560098
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ESTD 2001

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CERTIFICATE

Certified that the Thesis work entitled “**Title of the Project Report**” is carried out by **Student-1(USN)**, **Student-2(USN)**, **Student-3(USN)**, and **Student-4(USN)** in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2019-2020. It is certified that all corrections / suggestions indicated during internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in aspect of the project work prescribed for the award of degree of **Bachelor of Engineering**.

.....
Name of the Guide

.....
Designation

.....
Dr. Vipula Singh

.....
Head of the Department

.....
Dr. M K Venkatesha

.....
Principal

External Viva

Name of the examiners

1

2

Signature with date

.....

.....

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DECLARATION

We here by declare that the entire work embodied in this project report titled, **“Title of Project”** submitted to **Visvesvaraya Technological University**, Belagavi, is carried out at the department of **Electronics and Communication Engineering, RNS Institute of Technology, Bengaluru** under the guidance of **Name of the Guide**, Designation. This report has not been submitted for the award of any Diploma or Degree of this or any other University.

Name

1.

2.

3.

4.

USN

1RN16EC

1RN16EC

1RN16EC

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Signature

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Abstract

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Acknowledgement

The joy and satisfaction that accompany the successful completion of any task would be incomplete without thanking those who made it possible. We consider ourselves proud to be a part of RNS Institute of Technology, the institution which moulded us in all our endeavors.

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Finally, we take this opportunity to extend our earnest gratitude and respect to our parents, teaching and non-teaching staff of the department, the library staff and all our friends who have directly or indirectly supported us.

Name1

Name2

Name3

Name4

Abstract

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Acronyms

PCB : Printed Circuit Board

Chapter 1

Introduction

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1.1 Motivation

Title: Remote servicing of IPTV using DirectFB and VNC.

1.2 Objectives

Assume you have an IPTV in your home and it has some technical problem. It will be better if the TV technician can solve the problem remotely over Internet.

1.3 Methodology

The project involves 2 primary objectives

1. Exploring VNC system module of DirectFB and building it onto the target IPTV
2. Extending remote accessibility of IPTV from outside LAN

1.4 Applications

DirectFB features and VNC features have been implemented in IPTV independently.

1.5 Advantages and Disadvantages

The primary goal is establishing communication between IPTV and a remote PC for remote serviceability of IPTV.

1.6 Organisation of Report

THREE to FOUR lines of description of each chapter included

Chapter 2 :

Chapter 3 :

Chapter 4 :

Chapter 5 :

Chapter 6 :

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Figure 1.1: Example Figure

Chapter 2

Literature survey

REFER YOUR GUIDE FOR LITERATURE SURVEY FORMAT

Chapter 3

title

Chapter 4

title

Chapter 5

Conclusion and Future scope

References

- [1] Andrew S. Tanenbaum: *Operating Systems Design and Implementation*, Prentice Hall, 2006
- [2] About IPTV on Wikipedia <http://en.wikipedia.org/wiki/IPTV>
- [3] About VNC on Wikipedia http://en.wikipedia.org/wiki/Virtual_Network_Computing
- [4] LibVNC server <http://libvncserver.sourceforge.net>
- [5] DirectFB documentation <http://elinux.org/DirectFB>
- [6] jointSPACE documentation http://sourceforge.net/apps/mediawiki/jointspace/index.php?title=Main_Page
- [7] PuTTY on Wikipedia <http://en.wikipedia.org/wiki/PuTTY>
- [8] Nicola L. C Talbot and Gavin C. Cawley. A fast index assignment algorithm for robust vector quantisation of image data. *In Proceedings of the I.E.E.E. International Conference on Image Processing*, Santa Barbara, California, USA, October 1997.

Appendix A

Topic 1