Project Title Maximum Two Lines

(Times New Roman 26: Small Caps)



**BS (CS) Final Year Project Report**

**Submitted by**

**Name Enrolment Seat number**

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**July 20XX**

**Department of Computer Science and Software Engineering**

**Jinnah University for Women**

**5-C Nazimabad, Karachi 74600**

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**Project Advisor**

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**JINNAH UNIVERSITY FOR WOMEN**

**PROJECT APPROVAL**

Project Title: Title of the project

By

Name Enrolment Seat

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Name Enrolment Seat

Name Enrolment Seat

Approval Committee:

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Name: Name:

Designation: Designation:

Organization:

(Internal Advisor) (External Advisor)

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(Head of the Department)

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# CHAPTER 1

# INTRODUCTION

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## Overview

Over the past decade, there has been a tremendous increase in Internet, multimedia, telecommuting and image processing applications. These applications require gigabyte bandwidths over distances of hundreds of meters, low latency and high interconnection densities on limited budgets. The optical communication system, with its advantages in bandwidth (optical carrier frequency ~ 100 THz), small size and weight, electrical isolation, immunity to interference and crosstalk as well as low transmission loss has been critical in the development of these applications.

## Purpose

In the past, technological progress in optical communications has often been driven by long haul applications. However, short-haul telecommunication applications (ranging from intracity and local loop) have been given a new lease of life as computer processor speeds continue to reach the giga-hertz regime and as the bit width of data continues to expand [1].

More important than the rise of speed, is the growing trend towards computer networking. As large numbers of high-speed processors are linked together, inter-processor buses will no longer be confined to the distances of a backplane but explode into distances beyond shelf-to-shelf, room-to-room and the LAN level [2]. Therefore, the appeal of a compact, low-loss, low-cost optical bus whose performance reaches multi-Gbyte/s levels is rapidly becoming very attractive.

## Stakeholders

Thus with the emergence of high speed optical interconnects based on vertical cavity surface emitting lasers (VCSELs), gigabit-per-second optical data links are now commercially viable. Parallel optical data links, which provide a compact a potentially

## Benefits

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## Background Study

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# CHAPTER 2

# REQUIREMENTS

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## Functional Requirements

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## Non-Functional Requirements

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# CHAPTER 3

# ANALYSIS AND DESIGN

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## System Architecture with Diagram

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## Entity Relationship Diagram

Define each Diagram

## Project Flow Diagram

## Use Cases

## Activity Diagram

## User Interface Design

Minimum 10 to 15 screens (main project features) with description. No login, registration, about us and contact screens here. Mention Complete captions.

# CHAPTER 4

# PROJECT PLAN

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## Process Model (Agile)

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### User Stories

### Sprints Planning

### Sprints Sizing

## Timeline with Milestones

# CHAPTER 5

# TEST PLAN

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## Test Cases

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## Automated Testing Tools

# CHAPTER 6

# IMPLEMENTATION DETAILS

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## Tools and Technology

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## Data Dictionary

## Version Control

GitHub Repository Management, Add link of GitHub and mention versions.

## Web APIs / Web Services

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## Website Development

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## Mobile Application Development

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## Deployment

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## Website Hosting

## Mobile Application Deployment

# CHAPTER 7

# CONCLUSION AND FUTURE WORK

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# REFERENCES

# Use IEEE format

# APPENDIX A

# SCREENSHOTS

# APPENDIX B

# ABBREVIATION