A PROJECT REPORT ON

"Leave Management System" Submitted by

Sayyed Noorul Hasan

Exam Seat No:-666283

Under the Guidance of

Prof. Karad P.M.

In partial fulfillment of

Diploma in Computer Engineering



Department of Computer Engineering

Dr. N. J. PAULBUDHE INSTITUTE OF TECHNOLOGY (POLYTECHNIC)

Ahmednagar - 414002 2016-17

Affiliated To



CERTIFICATE



Dr. N. J. PAULBUDHE INSTITUTE OF TECHNOLOGY (POLYTECHNIC)

This is to certify that the project report entitled

"An Efficient Leave Management System for Calculating leaves And Maintaining, Monitoring records of leaves"

Submitted By:

Sayyed Noorul Hasan

Exam Seat No:- 666283

is a Bonafide work carried out by the above specified students, under the guidance of Prof. karad P.M. & it is approved for the fulfillment of requirement of Maharashtra State Board of Technical Education, for the award of the Degree of "Diploma in Computer Engineering" for the academic year 2016-17.

Project Guide	
(Prof Karad P.M.)	

External Examiner

Head of Department

Principal

Computer Engineering

Date: Place: Ahmednagar

Acknowledgement

I would like to express my gratitude to all those who helped me to complete this work. I

want to thank project guide Prof. Karad P.M. for his continuous help and generous assistance.

He helped in a broad range of issues from giving me direction, helping to find the solutions,

outlining the requirements and always having the time to see.

I have furthermore to thank Prof. Bhawale P.S. Head of Department of Computer

Engineering, to encourage me to go ahead and for continuous guidance. I also want to thank

Prof.P.S.Bhawale for all her assistance on Leave Detection and Monitoring, Maintaining

Records of Leave over the Internet and guidance for preparing report.

I would like to thank my colleagues who helped me time to time from preparing report

and giving good suggestions. I also extend sincere thanks to all the staff members of Department

of Computer Engineering for helping me in various aspects.

Last but not least I am grateful to Prof. Borde B.D. Principal Dr.N.J.P.I.T., for

all their support and encouragement.

Sayyed Noorul Hasan.

Exam No: 666283

ABSTRACT

This project is aimed at developing a leave management system that is of importance to either a College, Organization etc. The Leave Management System (LMS) is an Intranet/Intranet based application that can be accessed throughout the College or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is also automated. There are some important features like automatic approval of leave, report generation etc. in this system. Leave Management application will reduce paper work and maintains record in more efficient way.

In this system chances of losing data is not possible because data is maintained in the form of database. Every day attendance, leaves and notices information is updated in to database using a user friendly GUI. This will reduce work for Head of departments. This application is an online/offline application which makes more flexible to access information.

Important Features: Generate Report, Monitor Leaves, and Maintain Records of leaves.

TABLE OF CONTENTS

Sr. No.		Contents	Page No.
		Acknowledgement	
		Table of content	
		List of Figures	
		List of Tables	
1		Introduction	1-2
	1.1	Problem definition	2
	1.2	Leave Management System Introduction	2
2		Literature review	3-4
	2.1	Literature survey	4
	2.2	Proposed System	4
	2.3	Benefits of the system	4
3		Software requirement specification	5-8
3.1		Introduction	6
	3.1.1	Purpose	6
	3.1.2	Scope	6
	3.1.3	Overview	6
3.2		Overall description	7
	3.2.1	User class & characteristics	7
	3.2.2	Design and implementation	7
	3.2.3	User documents	7
3.3		External interface requirement	7
	3.3.1	Hardware interface	7
	3.3.2	Software interface	7
3.4		System features	7
	3.4.1	Functional requirements	7
	3.4.2	Validity checks	7
	3.4.3	Action/Result	8

3.5		Other nonfunctional requirement	8
	3.5.1	Safety requirement	8
	3.5.2	Security requirement	8
4		System design	9-12
4.1		System and design	10
4.2		Project overview	11
5		Project plan	13-18
5.1		Project plan	14
	5.1.1	System information engineering and modeling	14
	5.1.2	Software Requirement Analysis	15
	5.1.3	Design	15
	5.1.4	Code generation	15
	5.1.5	Testing	15
5.2		Phases	16
	5.2.1	Project plan phases	16
	5.2.2	Survey on phase diagram	17
5.3		Project schedule	18
6		Implementation	19-41
	6.1	Use Case Diagram	20
	6.2	Class diagram	24
	6.3	Sequence diagram	25
	6.4	Activity diagram	28
	6.5	ER diagram	31
	6.6	Component diagram	32
	6.7	DFD diagram	33
	6.8	Deployment diagram	36
	6.9	Snap Shots	37
7		Test cases	42-44
	7.1	Introduction	43
	7.2	Items to be tested	43

	7.3	Features to be tested	43
	7.3.1	Performance	43
	7.3.2	Functionality	43
	7.4	Test Cases (item pass/fail criteria)	44
8		Platform Choice	46-48
9		Future work	49-50
10		Conclusion	51-52
11		References	53-54
13		Appendix	55-56

List of Figures

Figure no.	Figure Name	Page no.
4	Three-Tier Architecture	10
4.1	Leave Management System overview	11
5.1	Software Development Model	14
6.1	Use case diagram	20-23
6.2	class diagram	24
6.3	Sequence diagram	25-27
6.4	Activity diagram	28-30
6.5	E-R diagram	31
6.6	Component diagram	32

6.7	Data flow diagram	35-36
6.8	Deployment diagram	36

List Of Tables:

Sr.No	Table Name	Page no.
5.2.1.1	Project Plan	16
5.2.2.1	Phase diagram	17
5.3.1	Item pass/fail criteria	18