## A

**Project Report**

**On**

***INTERNET MAILING SYSTEM***

Submitted To

## BHARATI VIDYAPEETH

**(Deemedtobeuniversity)**

**PUNE,(India).**

In the partial fulfillment for requirement of the degree

Master of Computer Applications (MCA-II sem-III 2019-20)

Submitted By

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Under the guidance of

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Through The

INSTITUTE OF MANAGEMENT AND RURAL DEVELOPMENT ADMINISTRATION, SANGLI



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**Sangli-416416**

***CERTIFICATE***

This is certified that a Project Report titled **“Internet Mailing System”** Submitted By **Mr. Akash Varde, Mr. Shripad Dixit, Mr. Rohan Yadav**

**Sem-III** in partial fulfillment for requirement of the degree of ‘Master of Computer Applications’ submitted to Bharati Vidyapeeth (Deemed To Be University), Pune has been completed under my guidance.

To the best of my knowledge and belief matter presented by them is original in nature and has not been copied down from any sources.

Place: Sangli Date:

Prof. B.D.Patil Dr.P.P.Jamsandekar Dr. Nitin Nayak.

**Guide HOD –ComputerApplication (Director)**

**Examiner**

# Declaration

### TO,

**THE DIRECTOR,**

**BV IMRDA, Sangli.**

Respected sir,

We, the undersigned hereby declare that the Project report entitled,

**“Internet Mailing System”** written and submitted under the guidance of

**Prof. B.D.Patil** its our Original Work. The Empirical findings in this report are based on information collected by us. We have not copied from any report submitted to BVDU IMRDA, Sangli. We understand any such copying is liable to punishment in a way that the university authority demits fit.

**PLACE:** Sangli

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### Mr. Akash Varde ,

### Mr. Shripad Dixit ,

**Mr. Rohan Yadav**

**Acknowledgement**

We take this opportunity to express my deep sense of obligation to the Bharati Vidyapeeth (Deemed To Be University), Pune. The Institute of Management and Rural Development Administration Sangli.

We express our sincere thanks to the **Director Dr. Nitin Nayak** for giving us an opportunity to undertaking this Project work. We owe our deepest gratitude towards respective guide **Prof. B.D.Patil** and all of our faculty members for their valuable guidance and motivation during the completion of the Project Report.

Finally we are very much thankful to everyone who helped us a lot in the completion of this Report to the great extent.

Thanking you all.

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INTRODUCTION

Internet Mailing System is a web application implemented using C#.NET framework and uses MS-ACCESS as the system database. To notify people of upcoming meetings, important notices, and special events, mails are the general means used. The proposed Mailing System project is a web application that generates a list of associates with their respective addresses, and mails them whenever required.

**Proposed System:**

In Consultancy offices, who are largely in need of a proper mailing list management system, can use this application to send mail in various branches and departments of a company and send emails to users to notify them the details.

Another sound feature of the proposed system is that mailing lists can be created in the system database. This allows administrators to view available list of mailing addresses along with user profiles from the back end.

So, with the proposed system, besides mailing list and user profiles, details of job vacancies are properly managed in the consultancy office. The overall system can be run economically with a limited number of manpower deployment. Also, the requirements of the office are immediately fulfilled and responded back and forth via mail.

The purpose of this project is to build an application program to reduce manual work for managing the subject, User data, Mailbox, Message data. It tracks all the details about the message data, mail server address and domain name.

OBJECTIVES

Internet Mailing System is a system is used to establish online communication among the users. The user can send mails to each other. The purpose of internet mailing system is users can send and receive mails in a GLOBAL net.

The main advantage of the Internet mail system will be its security feature allowing only Google registered users to access the system and preventing any hackers, unauthorized users.

1 ) The user of Internet Mailing System will be given a unique login id and must give the correct password . It will give total security for the company, so unauthorized user won’t have access to the messages. The main objective of the Internet mail system is to create security feature allowing only members of the organization to access the system and preventing any hackers, unauthorized users.

2) It is also aimed to send the mails spontaneously without requiring the parties be available at the same instant. It is much safer than the traditional 2-tier system. Therefore, the system is designed. To provide a communication channel inside an organization between different clients on the network.

To accept the mails from authorized users providing security.

To enhances communications among the members of the organization in a reliable, cost-effective and secure way

3) Scope of the study

In the fast growing world the information is needed as fast as possible. This can be accomplished by passing the information quickly and securely. The security of information is not guaranteed in the traditional 2 tier systems, because the mails or information are stored in the clients. But it takes much time and risk also. So we need a system which is quick, accurate, secured and less expensive. This can be achieved by mailing system. Internet mailing system sends the mails spontaneously without requiring the parties be available atthe same instant.

4) Internet mailing facility allows simple global net to to exchange emails with the help of two protocols are IMAP and POP3 using internet

a) Usually Text is transmitted

b) Operations include sending mails, storing, Processing, and receiving information from inbox.

c) Users are allowed to communicate under specific conditions.

d) Messages are held in storage until called by the addressee.

5) The internet mailing system is user friendly application . Only certain applications like system monitoring, instant messaging. This application provides facilities like mails, instant messages and allows other communication more effectively and access the resources they need to maximize day to day productivity.

SYSTEM REQUIREMENT

1. **Software Specifications:**

* Windows OS (XP / Vista / Windows 7/ Windows 10)
* Microsoft Visual Studio 2016 (Minimal for Deployment)
* Visual Studio .Net 2005 Enterprise Edition
* MS ACCESS Enterprise Edition
* Google Chrome as Web Browser

1. **Hardware Specifications:**

* Minimum PIV 2.8 GHz Processor
* Minimum RAM 512MB
* Minimum HDD 20 GB Hard Disk Space

1. **Please follow these steps to continue with your Google account:**

Google account-->Security🡪Enable less secure apps

SYSTEM FLOW

DATA FLOW DIAGRAM

1)Context Level Diagram (Level 0)

User

2) DFD Level 1

User

Internet Mailing System

User File

3) DFD Level 2

User

Mail FILES

USE CASE DIAGRAM

INTERNET MAILING SYSTEM

CLASS DIAGRAM

Enter

User

User name (uid)

Password (pwd)

Login

has

Accessing mails using IMAP and POP3 Protocol

Mails

Inbox

Sent

All Mails

User details

Fill

Users

User name uid)

Password (pwd)

SEQUENCE DIAGRAM

Mails

Users

(User ID, Password)

User

User Request

New User Details

ACTIVITY DIAGRAM

Login

Enter Username

Compose mail

Enter Password

Inbox

Check new mails

Enter Recipient address

Check sent mails

DATABASE DESIGN

OUTPUT SCREEN

VALIDATION

**Email authentication**, or **validation**, is a collection of techniques aimed at providing verifiable information about the origin of email messages by validating the [domain ownership](https://en.wikipedia.org/wiki/Domain_name#Purpose) of any [message transfer agents](https://en.wikipedia.org/wiki/Message_transfer_agent) (MTA) who participated in transferring and possibly modifying a message.

The original base of Internet email, [Simple Mail Transfer Protocol](https://en.wikipedia.org/wiki/Simple_Mail_Transfer_Protocol) (SMTP), has no such feature, so forged sender addresses in emails (a practice known as [email spoofing](https://en.wikipedia.org/wiki/Email_spoofing)) have been widely used in [phishing](https://en.wikipedia.org/wiki/Phishing), [email spam](https://en.wikipedia.org/wiki/Email_spam), and various types of fraud. To combat this, many competing email authentication proposals have been developed, but only fairly recently have three been widely adopted – [SPF](https://en.wikipedia.org/wiki/Sender_Policy_Framework), [DKIM](https://en.wikipedia.org/wiki/DKIM) and [DMARC](https://en.wikipedia.org/wiki/DMARC).[[1]](https://en.wikipedia.org/wiki/Email_authentication#cite_note-1)[[2]](https://en.wikipedia.org/wiki/Email_authentication#cite_note-2) The results of such validation can be used in automated [email filtering](https://en.wikipedia.org/wiki/Email_filtering), or can assist recipients when selecting an appropriate action.

CODE

ADVANTAGES

* All the fields such as Subject, Message data, Domain name are validated and does not take invalid values.
* Each form for subject, User data, Mailbox name cannot accept blank values fields.
* Avoiding errors in data and controlling amount of input.
* Storing mails using SQL for retrieving purpose.

LIMITATIONS

* Excel export has not been developed for Mailbox name, Mailserver Address due to some criticality.
* The Transactions are executed in off-line mode, hence on-line data for subject, User data capture and modification is not possible
* Offline reports of subject, Message data, Domain name cannot be generated due to batch mode execution

CONCLUSION

Internet Mailing System basically comprises of a collection of names and addresses of affiliates of a consultancy office or company.

It can act as a bridge between consultancy office and workstation user or between consultancy office and its affiliates to notify users and affiliates of information, meetings and upcoming schedules.

We have presented the design and implementation of a Web-based Internet mail server management system. We have used and integrated SNMP, POP3 and Web technologies in developing our system. Though we have developed a management system for mail service only, our design and implementation architecture is general enough to be applied to manage any Internet application service system within the organization so that the registered user can communicate easily without using Internet we have also provided the facility of attachment by using C# collections. In order to secure password of registered user we have used encryption technique which works on MD5 (message digest5) algorithm.

The SNMP management framework enables developers to create management applications easily and efficiently. Our system has utilized both technologies so that Internet mailing system could be highly efficient

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