**A PROJECT REPORT ON**

**MASS – MAIL DISPATCHER**

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**ABSTRACT**

A Mass-Mail Dispatcher is a marketing message sent by a brand to multiple recipients at once. It aims to promote a brand, sell goods, and develop relationships. A Mass-Mail Dispatcher allows its customers to send mass email messages to multiple lists of recipients at a specified time. With this service, you can send a single message to thousands of people on a mailing list.

This Project report consists of basic idea of Mass-Mail Dispatcher sending through personal computer.The system has been working with in this project is the web-based Mass-Mail Dispatcher. The application is designed to send mass mails to all the recipients uploaded through a CSV file. The purpose of this is to provide a tool to control and send emails to a vast number of recipients. The application will list and sort out all the valid and invalid emails detected by the application allowing the users to more readily send emails as per user convenience. The end user should be able to upload CSV file. The application shall list the detected invalid emails found in the CSV File. The user should be given a structured list of the valid emails.

1. **INTRODUCTION**

Mass email (also known as bulk email) is when you send an email to a large number of contacts. It could be an email marketing campaign to generate leads or drive sales, or follow-ups with your clients.A bulk email service helps marketers and online entrepreneurs avoid getting labelled as spam or junk by the subscriber’s emailclient (for example, Gmail).Refusal of service by an InternetServiceProvider or hosting company.Getting flagged by the Federal Trade Commission for breaking the CAN-SPAM Act and possibly paying a fine of a whopping $16,000 for every illegal email.

**1.1Types of Bulk Emails:**

1. Newsletters
2. Promotional emails
3. Acquisition emails
4. Retention emails
5. **Newsletters.**

A newsletter is an excellent way of keeping subscribers in the loop about what’s going on with a business. In most cases, newsletters provide insights, notifications, or guides to customers in a bid to help them better understand a particular service or product.

1. **Promotional emails.**

Bulk emails are effective at promoting sales, attracting customers with offers and deals, and building brand awareness. These emails can also be used to suggest appropriate products to existing and prospective customers.

1. **Acquisition emails.**

These are messages sent to acquire new customers, directed at prospects on a list who have yet to convert. They may be used to share special offers to convince potential customers to make a purchase.

1. **Retention emails.**

These mass emails are generally sent to existing clients to encourage them to keep purchasing from your company. They aim to boost a brand’s customer loyalty.

**2. METHODOLOGY**

**2.1 EXISTING SYSTEM:**

**Mail** is information stored on a computer that is exchanged between two users over telecommunications. More plainly, e-mail is a message that may contain text, files, images, or other attachments sent through a network to a specified individual or group of individuals.

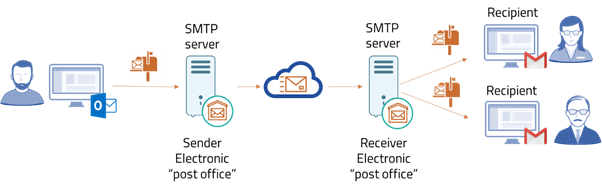
One to one mail are essentially personal emails that are sent from you to your subscribers. One to one email marketing can be a really useful channel for small ecommerce businesses to capitalize on a more personal relationship with customers, by focusing on quality over quantity. But when it comes to sending mails to a large number of contacts then this methodology doesn’t work.

**2.2 PROPOSED SYSTEM:**

A Mass-Mail Dispatcher is a marketing message sent by a brand to multiple recipients at once. It aims to promote a brand, sell goods, and develop relationships. A Mass-Mail Dispatcher allows its customers to send mass email messages to multiple lists of recipients at a specified time. With this service, you can send a single message to thousands of people on a mailing list.

The system has been working with in this project is the web-based Mass-Mail Dispatcher. The application is designed to send mass mails to all the recipients uploaded through a CSV file. The purpose of this is to provide a tool to control and send emails to a vast number of recipients. The application will list and sort out all the valid and invalid emails detected by the application allowing the users to more readily send emails as per user convenience. The end user should be able to upload CSV file. The application shall list the detected invalid emails found in the CSV File. The user should be given a structured list of the valid emails.

**2.3ARCHITECTURE:**

****

**3. IMPLEMENTATION**

**3.1 SAMPLE CODES:**

**3.1.1 login.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<link rel="stylesheet" href="style.css" >

<link rel="stylesheet" href="https://unicons.iconscout.com/release/v4.0.0/css/line.css">

<style type="text/css">

body{

background-image:url("background.avif");

background-size:cover;

}

</style>

</head>

<body>

<div class="container">

<header>Login</header>

<form action="index.html">

<div class="field email-field">

<div class="input-field">

<input type="email" placeholder="Enter your email" class="email" />

</div>

<span class="error email-error">

<i class="bx bx-error-circle error-icon"></i>

<p class="error-text">Please enter a valid email</p>

</span>

</div>

<div class="field create-password">

<div class="input-field">

<input

type="password"

placeholder="Create password"

class="password"

/>

</div>

<span class="error password-error">

<p class="error-text">

Please enter atleast 8 charatcer with number, symbol, small and

capital letter.

</p>

</span>

</div>

<div class="field confirm-password">

<div class="input-field">

<input

type="password"

placeholder="Confirm password"

class="cPassword"

/>

</div>

<span class="error cPassword-error">

<p class="error-text">Password don't match</p>

</span>

</div>

<div class="input-field button">

<input type="submit" value="Submit Now" />

</div>

</form>

</div>

<script src="script.js"></script>

</body>

</html>

**3.1.2 style.css**

/\* Google Fonts - Poppins \*/

@import url("https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap");

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

font-family: "Poppins", sans-serif;

}

body {

min-height: 100vh;

display: flex;

align-items: center;

justify-content: center;

}

.container {

position: relative;

max-width: 370px;

width: 100%;

padding: 25px;

border-radius: 8px;

background-color: #fff;

}

.container header {

font-size: 22px;

font-weight: 600;

color: #333;

}

.container form {

margin-top: 30px;

}

form .field {

margin-bottom: 20px;

}

form .input-field {

position: relative;

height: 55px;

width: 100%;

}

.input-field input {

height: 100%;

width: 100%;

outline: none;

border: none;

border-radius: 8px;

padding: 0 15px;

border: 1px solid #d1d1d1;

}

.invalid input {

border-color: #d93025;

}

.input-field .show-hide {

position: absolute;

right: 13px;

top: 50%;

transform: translateY(-50%);

font-size: 18px;

color: #919191;

cursor: pointer;

padding: 3px;

}

.field .error {

display: flex;

align-items: center;

margin-top: 6px;

color: #d93025;

font-size: 13px;

display: none;

}

.invalid .error {

display: flex;

}

.error .error-icon {

margin-right: 6px;

font-size: 15px;

}

.create-password .error {

align-items: flex-start;

}

.create-password .error-icon {

margin-top: 4px;

}

.button {

margin: 25px 0 6px;

}

.button input {

color: #fff;

font-size: 16px;

font-weight: 400;

background-color: #0e4bf1;

cursor: pointer;

transition: all 0.3s ease;

}

.button input:hover {

background-color: #0e4bf1;

}

**3.1.3 script.js**

const form = document.querySelector("form"),

emailField = form.querySelector(".email-field"),

emailInput = emailField.querySelector(".email"),

passField = form.querySelector(".create-password"),

passInput = passField.querySelector(".password"),

cPassField = form.querySelector(".confirm-password"),

cPassInput = cPassField.querySelector(".cPassword");

// Email Validtion

function checkEmail() {

const emaiPattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;

if (!emailInput.value.match(emaiPattern)) {

return emailField.classList.add("invalid"); //adding invalid class if email value do not mathced with email pattern

}

emailField.classList.remove("invalid"); //removing invalid class if email value matched with emaiPattern

}

// Hide and show password

const eyeIcons = document.querySelectorAll(".show-hide");

eyeIcons.forEach((eyeIcon) => {

eyeIcon.addEventListener("click", () => {

const pInput = eyeIcon.parentElement.querySelector("input"); //getting parent element of eye icon and selecting the password input

if (pInput.type === "password") {

eyeIcon.classList.replace("bx-hide", "bx-show");

return (pInput.type = "text");

}

eyeIcon.classList.replace("bx-show", "bx-hide");

pInput.type = "password";

});

});

// Password Validation

function createPass() {

const passPattern =

/^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$/;

if (!passInput.value.match(passPattern)) {

return passField.classList.add("invalid"); //adding invalid class if password input value do not match with passPattern

}

passField.classList.remove("invalid"); //removing invalid class if password input value matched with passPattern

}

// Confirm Password Validtion

function confirmPass() {

if (passInput.value !== cPassInput.value || cPassInput.value === "") {

return cPassField.classList.add("invalid");

}

cPassField.classList.remove("invalid");

}

// Calling Funtion on Form Sumbit

form.addEventListener("submit", (e) => {

e.preventDefault(); //preventing form submitting

checkEmail();

createPass();

confirmPass();

//calling function on key up

emailInput.addEventListener("keyup", checkEmail);

passInput.addEventListener("keyup", createPass);

cPassInput.addEventListener("keyup", confirmPass);

if (

!emailField.classList.contains("invalid") &&

!passField.classList.contains("invalid") &&

!cPassField.classList.contains("invalid")

) {

location.href = form.getAttribute("action");

}

});

**3.1.4 index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" >

<meta http-equiv="X-UA-Compatible" content="IE=edge" >

<meta name="viewport" content="width=device-width, initial-scale=1.0" >

<link rel="stylesheet" href="demo.css">

<title>Home Page</title>

</head>

<body>

<form action="home" method="post">

<nav>

<button class="open-button"><a href="login.html">Login</a></button>

<button class="open-button2" name="btn" value="logout"><a href="login.html">Logout</a></button>

</nav>

<header>

<h1 class="heading">Mass-Mail Dispatcher</h1>

</header>

<main id="main-class">

<div class="content">

<p>A Mass-Mail Dispacther is a system in which a sender can send message to many receiver at a time.For this purpose sender has to upload .CSV file .The website filters out the valid mails and invalid mails from uploded .CSV files. After verification the mails are listed out and email is created and send to valid mail</p>

<!-- Buttons for three steps -->

<div class="box">

<!--Step 1 - Upload CSV-->

<div class="box1">

<h5 class="btnBox">Step1:</h5>

</div>

<div class="box1">

<button type="submit" class="btnUpload boxBtn" name="btn"

value="upload">Upload CSV</button>

</div>

<!--Step 2 - Purifying and validating emails-->

<div class="box1">

<h5 class="btnBox">Step2:</h5>

</div>

<div class="box1">

<button type="submit" class="btnVarify boxBtn" name="btn"

value="Purified and Validated list">Purifying and validating emails</button>

</div>

<!--Step 3 - Sending mail-->

<div class="box1">

<h5 class="btnBox">Step3:</h5>

</div>

<div class="box1">

<button type="submit" class="btnSend boxBtn" name="btn"

value="send"><a href="sendmail.html">Send mails</a></button>

</div>

</div>

</div>

</main>

</form>

</body>

</html>

**3.1.5 demo.css**

@import url("https://fonts.googleapis.com/css2?family=Aboreto&display=swap");

@import url("https://fonts.googleapis.com/css2?family=Lato&display=swap");

\* {

margin: 3px;

padding: 3px;

box-sizing: border-box;

font-family: "Aboreto", sans-serif;

}

body{

background-image:url(mail.jpeg);

background-size: cover;

}

h1 {

color: rgb(12, 11, 11);

align-content: center;

justify-content: center;

display: flex;

font-size: 70px;

}

p{

margin-left: 5px;

justify-content:center;

margin-right: 5px;

}

/\* Button used to open the contact form - fixed at the bottom of the page \*/

.open-button {

margin-left: 80%;

page-break-inside: auto;

background-color: rgba(66, 151, 231, 0.792);

border-radius: 5px;

color: black;

font-size: 15px;

font-weight: bolder;

position: static;

width: 100px;

padding: 10px;

opacity: 0.8;

}

.open-button2{

margin-left: 2%;

margin-right: 1%;

background-color: rgba(66, 151, 231, 0.792);

border-radius: 5px;

color: black;

font-size: 15px;

font-weight: bolder;

position:absolute;

width: 100px;

padding: 10px;

opacity: 0.8;

cursor: pointer;

align-items:center;

}

.content {

border-radius: 5px;

padding: 16px 20px;

margin-top: 20px;

font-size: 20px;

}

.box1{

display: flex;

justify-content: center;

align-items: center;

padding-top: 10px;

padding-bottom: 8px;

}

.boxBtn {

padding: 20px;

font-size: 20px;

border-radius: 10px;

}

#upbtn{

padding: 20px;

font-size: 20px;

border-radius: 10px;

}

.file-upload-field{

padding: 20px;

font-size: 20px;

border-radius: 10px;

}

h2{

color:White;

text-align : center;

}

/\* The popup form - hidden by default \*/

.form-popup {

display: none;

position:absolute;

border: 2px solid #f1f1f1;

z-index: 9;

}

/\* Add styles to the form container \*/

.form-container {

max-width: 300px;

padding: 10px;

background-color:black;

}

/\* Full-width input fields \*/

.form-container input[type=text], .form-container input[type=password] {

width: 100%;

padding: 15px;

margin: 5px 0 22px 0;

border: none;

background: #f1f1f1;

}

/\* When the inputs get focus, do something \*/

.form-container input[type=text]:focus, .form-container input[type=password]:focus

{

background-color: #ddd;

outline: none;

}

/\* Set a style for the submit/login button \*/

.form-container .btn {

background-color: #0eca0ec0;

color: white;

padding: 16px 20px;

border: none;

cursor: pointer;

width: 100%;

margin-bottom: 10px;

opacity: 0.8;

}

/\* Add a red background color to the cancel button \*/

.form-container .cancel {

background-color: grey;

}

/\* Add some hover effects to buttons \*/

.form-container .btn:hover, .open-button:hover {

opacity: 1;

}

**3.1.6 sendmail.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Mass-Mail Dispatcher</title>

<link rel="stylesheet" href="style1.css">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/animate.css@3.5.2/animate.min.css">

</head>

<body>

<div class="container ">

<div class="select animated fadeInDown delay-4s">

<h1 class="font-effect-fire-animation">Mass-Mail<br> Dispatcher</h1>

<input type="file" id="upload" accept="text/csv">

</div>

<div class="mailInfo">

<form onsubmit="sendEmail(); reset(); return false;">

<h2>send your mail here</h2>

<input type="email" id="from" placeholder="From (Email ID)" required>

<input type="text" id="subject" placeholder="Subject" required>

<textarea id="msg" rows="12" cols="12" placeholder="Body" required></textarea>

<button type="submit">Send</button>

</form>

</div>

</div>

<div class="tables">

<div class="valTab">

<table id="val">

<tr>

<td>

<h2>Valid Emails : <span id="valCount"></span></h2>

</td>

</tr>

</table>

</div>

<div class="invalTab">

<table id="inval">

<tr>

<td>

<h2>Invalid Emails : <span id="invalCount"></span></h2>

</td>

</tr>

</table>

</div>

</div>

</section>

<hr>

<script src="https://smtpjs.com/v3/smtp.js"></script>

<script src="sendmail.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/wow/1.1.2/wow.js"></script>

<script>var wow = new WOW(

{

boxClass: 'wow',

animateClass: 'animated',

offset: 0,

mobile: true,

live: true,

callback: function(box) {

},

scrollContainer: null,

resetAnimation: true,

}

);

wow.init();

</script>

</body>

</html>

**3.1.7 style1.css**

@import url("https://fonts.googleapis.com/css?family=Poppins&display=swap&effect=shadow-multiple|fire-animation");

\* {

margin: 0;

padding: 0;

font-family: 'Poppins', sans-serif;

}

body{

background-image: linear-gradient(62deg, #f7e1a4 0%, #d69949 100%);

}

.top{

color: white;

top: 0;

left: 0;

position: fixed;

}

.container {

display: flex;

align-items: center;

justify-content: space-around;

width: 100%;

height: 100vh;

flex-wrap: wrap;

}

.select {

display: flex;

flex-direction: column;

}

.select input {

background-color: rgb(255, 255, 255);

border: none;

margin: 6vh auto;

border-radius: 50px;

box-shadow: 5px 5px 10px black;

font-weight: 600;

font-size: 1rem;

outline: none;

width: 350px;

}

.select input::file-selector-button {

background: #d3872f;

color: white;

padding: 20px;

border: none;

border-radius: 50px;

box-shadow: 0 1px 1px #6b4559;

outline: none;

}

.select input::file-selector-button:hover {

background: #f5a962;

cursor: pointer;

}

.select h1 {

color: white;

font-size: 6rem;

padding: 5vh;

text-align: center;

transition: .2s;

}

.select button {

padding: .8rem;

background: white;

border: 0;

font-size: 2.3vh;

color: #e7b250;

outline: none;

cursor: pointer;

width: 40vh;

margin: 4vh auto;

border-radius: 2rem;

font-weight: 800;

}

.mailInfo form {

background-color: rgb(169, 167, 167);

display: flex;

flex-direction: column;

padding: 2vw 3vw;

width: 90%;

max-width: 660px;

border-radius: .5rem;

transition: .2s;

}

.mailInfo form:hover {

transform: scale(1.02);

}

form h2 {

letter-spacing: .1rem;

word-spacing: .5rem;

color: rgb(71, 71, 71);

text-align: center;

font-weight: 900;

margin: 3vh 0;

background-color: rgb(169, 167, 167);

}

form input,

textarea {

border: 0;

background: rgb(236, 235, 235);

padding: 1rem;

margin: 1vh 1vh;

border-radius: .5rem;

outline: none;

font-size: 1rem;

}

form textarea {

white-space: pre-line;

}

form button {

padding: .8rem;

background: #6a4420;

border: 0;

font-size: 2.3vh;

color: white;

outline: none;

cursor: pointer;

width: 17vh;

margin: 1vh auto;

border-radius: 2rem;

margin-top: 2vh;

box-shadow: 5px 5px 10px black;

}

form button:hover {

background: #e7b455;

}

.tables {

border-top: 2px solid white;

display: flex;

justify-content: space-around;

width: 90%;

margin: 10vh auto;

color: white;

flex-wrap: wrap-reverse;

}

.tables h2 {

margin: 5vh 0;

}

.tables td:hover {

transform: scale(1.02);

color: #ffd4d8;

}

li {

display: inline-block;

}

.fa-brands:hover {

color: rgb(255, 255, 255);

background: #ff0015;

transform: scale(1.4);

}

footer {

font-weight: 300;

display: flex;

justify-content: space-evenly;

padding: 2rem;

background: var(--main-gray);

border-top: 4px solid var(--main-red);

color: white;

}

footer>p {

margin: 2rem;

font-size: larger;

}

footer i {

vertical-align: middle;

}

@media (max-width: 500px) {

footer {

flex-direction: column;

text-align: center;

}

}

@media(max-width: 669px) {

.container{

display: flex;

flex-wrap: wrap;

}

.select h1 {

font-size: 3rem;

margin-top: 22vh;

}

.select input {

width: 35vh;

font-size: 1rem;

margin-top: 22vh;

}

.select input::file-selector-button {

padding: 1rem .5em;

}

.mailInfo form {

/\* padding: 0 auto; \*/

width: 95%;

/\* max-width: 660px; \*/

/\* margin: 100% auto; \*/

margin-top: 60%;

/\* display: block; \*/

}

.tables {

margin-top: 120vh;

}

form h2 {

letter-spacing: 0;

word-spacing:.2rem;

font-size: 1.6rem;

}

}

**3.1.8 sendmail.js**

//---------validating emails--------------

let upload = document.getElementById('upload');

upload.addEventListener('change', () => {

let fr = new FileReader();

fr.readAsText(upload.files[0]);

fr.onload = function () {

let Arr = fr.result.split(/\r?\n|\n/).map(e => {

return e.split(',');

});

Window.valNo = 0;

let invalNo = 0;

Window.valMail = [];

Arr.forEach(e => {

let em = String(e);

let m = e.map(e => {

return `<td>${e}</td>`; // td = table data

})

let creEle = document.createElement("tr"); //tr = table row

creEle.innerHTML = m;

if (em != "") { // so that blank row will not be printed as well as counted

// if (em.indexOf('@') != 0) {

// document.querySelector("table#val").appendChild(creEle);

// return false;

// }

if (em.charAt(em.length - 4) == '.') {

document.querySelector("table#val").appendChild(creEle);

Window.valMail.push(em);

Window.valNo = Window.valNo + 1;

return false;

}

else if (em.charAt(em.length - 3) == '.') {

document.querySelector("table#val").appendChild(creEle);

Window.valMail.push(em);

Window.valNo = Window.valNo + 1;

return false;

}

else {

document.querySelector("table#inval").appendChild(creEle);

invalNo = invalNo + 1;

// console.log(creEle);

return false;

}

}

});

document.querySelector('#valCount').innerHTML = Window.valNo;

document.querySelector('#invalCount').innerHTML = invalNo;

};

});

//-----------sending emails---------------

function sendEmail() {

Email.send({

Host: "smtp.elasticemail.com",

Username: "arbuthaav@gmail.com", //change

Password: "1234@Arbu", // app password //change

To: "arbuthaav@gmail.com",

From: "arbuthaav@gmail.com",

Subject: document.querySelector('#subject').value,

Body: document.getElementById('msg').value

}).then(

message => alert(Window.valNo + " mails has been sent successfully, press " + message + " to continue.")

);

console.log(document.getElementById('msg').value);

console.log(document.getElementById('msg').innerHTML);

console.log(document.getElementById('msg').innerText);

}

**4. CONCLUSION**

Mass-Mail marketing is one of the leading techniques that most of the organizations and digital marketers use to compete with today's highly competitive business world. Mass email software helps you deliver your personalized messages to a filtered audience. Moreover, it effectively reduces both your time and efforts. Most importantly, it allows you to track your campaigns in terms and engagement and sales.

By using the method of mass-mail dispatcher we get a lot of benefits. Benefits like cheaper cost, reach a large number of customers, reach the right i.e., valid customers, generating high quality leads, effectiveness of mails, real-time mails.