

# **PROJECT REPORT**

## **MASS MAIL DISPATCHER**

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### **1.ABSTRACT:**

The Mass Mail Dispatcher is a web application designed to simplify the process of sending bulk emails. Users can upload a list of email addresses, compose a message, and send it to all valid email addresses with a single click. The application features real-time email validation, a user-friendly interface, and seamless navigation between sections. It uses HTML, CSS, JavaScript, SMTP.js, WOW.js, Animate.css, and Font Awesome to provide a robust and efficient solution for bulk email dispatch.

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### **3.INTRODUCTION:**

In today's digital landscape, sending bulk emails is a common requirement for businesses and organizations for marketing, notifications, and other communications. Existing solutions often involve complex setups or are costly. The Mass Mail Dispatcher project aims to provide an easy-to-use, cost-effective alternative for sending mass emails efficiently. This report details the project's objectives, design, implementation, and outcomes.

### **4.EXISTING METHODS:**

Existing methods for sending bulk emails typically involve:

- **Email Marketing Services:** Platforms like Mailchimp and SendGrid offer comprehensive solutions but can be expensive and complex.
- **Manual Sending:** Using email clients to manually send emails to multiple recipients is time-consuming and prone to errors.
- **Custom Solutions:** Organizations sometimes develop in-house solutions that require significant technical expertise and maintenance.

These methods have limitations such as high costs, complexity, and inefficiency.

### **5.Proposed Method With Architecture:**

#### **Proposed Method**

The Mass Mail Dispatcher offers a straightforward web-based solution for bulk email dispatch:

1. **File Upload:** Users upload a CSV file containing email addresses.

2. **Email Composition:** Users compose an email with fields for the sender's address, subject, and body.
3. **Validation:** The application validates email addresses in real-time.
4. **Dispatch:** Valid emails are sent using the SMTP.js library.

## Architecture

The architecture of the Mass Mail Dispatcher is simple and effective, comprising the following components:

Frontend: HTML, CSS, JavaScript for the user interface and interactivity.

### Libraries:

SMTP.js: For sending emails.

WOW.js: For scroll animations.

Animate.css: For CSS animations.

Font Awesome: For icons.

Hosting: Cloundinary for image hosting (logo).

## 6. Methodology:

The development process followed these steps:

1. **Requirement Analysis:** Understanding the need for a bulk email dispatcher.
2. **Design:** Creating a user-friendly interface and defining the application flow.
3. **Development:** Implementing the frontend with HTML, CSS, and JavaScript, integrating libraries for additional functionality.

4. **Testing:** Validating email addresses, testing email dispatch, and ensuring a smooth user experience.
5. **Deployment:** Hosting the application and ensuring it is accessible to users.

## 7. Implementation:

### Frontend Development

The frontend is built using HTML for structure, CSS for styling, and JavaScript for interactivity.

#### HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Mass Mail Dispatcher</title>
  <link rel="stylesheet" href="style.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://jsdelivr.net/npm/animate.css@3.5.2/animate.min.css">
</head>
<body>
  <div class="navbar">
    <div class="navbar-left">
      
    </div>
    <div class="navbar-right">
      <a class="a-element" href="#home-section">HOME</a>
      <a class="a-element" href="#write-email-section">WRITE EMAIL</a>
      <a class="a-element" href="#valid-emails-section">VALID EMAILS</a>
      <a class="a-element" href="#invalid-emails-section">INVALID
EMAILS</a>
    </div>
  </div>
  <div class="home" id="home-section">
    <div class="home-left">
```

```

        <div class="select animated fadeInDown delay-4s">
            <h1 id="head">Mass-Mail Dispatcher</h1>
            <input type="file" id="upload" accept="text/csv">
        </div>
        <div class="mailInfo" id="write-email-section">
            <form id="emailForm" onsubmit="sendEmail(); reset(); return
false;">
                <h2 id="box-heading">WRITE YOUR EMAIL HERE</h2>
                <p><input type="email" id="from" placeholder="From (Email
Id)" required></p>
                <p><input type="text" id="subject" placeholder="Subject"
required></p>
                <p><textarea id="msg" rows="12" cols="12"
placeholder="Body" required></textarea></p>
                <p><button type="submit" id="submit" style="font-weight:
bold;">Send</button></p>
            </form>
        </div>
    </div>
    <hr>
    <div class="tables">
        <div class="valtab" id="valid-emails-section">
            <table id="val">
                <tr>
                    <td>
                        <h2>VALID EMAILS: <span
id="valcount">0</span></h2>
                    </td>
                </tr>
            </table>
        </div>
        <div class="invaltab" id="invalid-emails-section">
            <table id="inval">
                <tr>
                    <td>
                        <h2>INVALID EMAILS: <span
id="invalcount">0</span></h2>
                    </td>
                </tr>
            </table>
        </div>
    </div>
    <hr>
    <script src="http://smtpjs.com/v3/smtp.js"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/wow/1.1.2/wow.js"></script>
    <script src="main.js"></script>

```

```

<script>
    new WOW().init();

    function sendEmail() {
        Email.send({
            Host: "smtp.yourisp.com",
            Username: "username",
            Password: "password",
            To: 'them@website.com',
            From: document.getElementById("from").value,
            Subject: document.getElementById("subject").value,
            Body: document.getElementById("msg").value,
        }).then(function (message) {
            alert("Mail has been sent");
        });
    }

    document.querySelectorAll('.a-element').forEach(anchor => {
        anchor.addEventListener('click', function (e) {
            e.preventDefault();
            const targetId = this.getAttribute('href').substring(1);
            document.getElementById(targetId).scrollIntoView({ behavior:
'smooth' });
        });
    });
</script>
<a href="#" id="scroll-top-btn"><i class="fas fa-arrow-up"></i></a>
</body>
</html>

```

## CSS:

```

body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    background-color: #f4f4f9;
}

.navbar {
    display: flex;
    justify-content: space-between;
    align-items: center;
    background-color: #3498db;

```

```
padding: 10px 20px;
color: #fff;
}

.navbar-left {
display: flex;
align-items: center;
}

.logo-image {
width: 60px;
height: 60px;
margin-right: 10px;
}

.navbar-right a {
color: #fff;
text-decoration: none;
margin: 0 10px;
padding: 10px 15px;
background-color: #2980b9;
border-radius: 4px;
transition: background-color 0.3s;
}

.navbar-right a:hover {
background-color: #1e6f9f;
}

.home {
padding: 20px;
max-width: 1200px;
margin: auto;
}

.home-left {
max-width: 600px;
margin: 20px auto;
background-color: #fff;
padding: 20px;
border-radius: 8px;
box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

.select {
text-align: center;
margin-bottom: 20px;
}
```

```
#head {
  font-size: 2.5em;
  margin-bottom: 20px;
  color: #2c3e50;
}

#upload {
  display: block;
  margin: 20px auto;
  padding: 10px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

.mailInfo {
  background-color: #ecf0f1;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

#box-heading {
  margin-bottom: 10px;
  font-size: 1.5em;
  text-align: center;
  color: #2c3e50;
}

.mailInfo p {
  margin: 10px 0;
}

.mailInfo input, .mailInfo textarea {
  width: 100%;
  padding: 10px;
  border: 1px solid #bdc3c7;
  border-radius: 4px;
  margin-bottom: 10px;
}

#submit {
  width: 100%;
  padding: 15px;
  background-color: #3498db;
  color: #fff;
  border: none;
  border-radius: 4px;
}
```



```
    cursor: pointer;
    font-weight: bold;
    transition: background-color 0.3s;
}

#submit:hover {
    background-color: #2980b9;
}

.tables {
    display: flex;
    justify-content: space-around;
    padding: 20px;
}

.tables .valtab, .tables .invaltab {
    width: 45%;
    background-color: #fff;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

.tables table {
    width: 100%;
    border-collapse: collapse;
    margin-bottom: 20px;
}

.tables table h2 {
    font-size: 1.2em;
    margin-bottom: 10px;
    text-align: center;
    color: #2c3e50;
}

.tables table td {
    padding: 10px;
    border: 1px solid #ccc;
    text-align: left;
    color: #2c3e50;
}

#scroll-top-btn {
    position: fixed;
    bottom: 20px;
    right: 20px;
    background-color: #333;
```

```

    color: #fff;
    padding: 10px;
    border-radius: 50%;
    text-align: center;
    display: none;
    cursor: pointer;
    transition: background-color 0.3s;
}

#scroll-top-btn:hover {
    background-color: #555;
}

.animated {
    animation-duration: 1s;
    animation-fill-mode: both;
}

.delay-4s {
    animation-delay: 4s;
}

```

## JAVA SCRIPT:

```

document.getElementById('upload').addEventListener('change', handleFileSelect,
false);

function handleFileSelect(event) {
    const file = event.target.files[0];
    const reader = new FileReader();
    reader.onload = function(event) {
        const csv = event.target.result;
        processCSV(csv);
    };
    reader.readAsText(file);
}

function processCSV(csv) {
    const lines = csv.split('\n');
    const validEmails = [];
    const invalidEmails = [];

    lines.forEach(line => {
        const email = line.trim();
        if (validateEmail(email)) {

```

```

        validEmails.push(email);
    } else {
        invalidEmails.push(email);
    }
});

document.getElementById('valcount').textContent = validEmails.length;
document.getElementById('invalcount').textContent = invalidEmails.length;

// Populate the tables with emails
populateTable('val', validEmails);
populateTable('inval', invalidEmails);
}

function validateEmail(email) {
    const re = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    return re.test(String(email).toLowerCase());
}

function populateTable(tableId, emails) {
    const table = document.getElementById(tableId);
    while (table.rows.length > 1) {
        table.deleteRow(1);
    }

    emails.forEach(email => {
        const row = table.insertRow();
        const cell = row.insertCell(0);
        cell.textContent = email;
    });
}

document.getElementById('scroll-top-btn').addEventListener('click', function() {
    window.scrollTo({ top: 0, behavior: 'smooth' });
});

window.addEventListener('scroll', function() {
    const scrollBtn = document.getElementById('scroll-top-btn');
    if (window.scrollY > 200) {
        scrollBtn.style.display = 'block';
    } else {
        scrollBtn.style.display = 'none';
    }
});

function sendEmail() {

```

```
const validEmails = Array.from(document.querySelectorAll('#val tr
td')).map(td => td.textContent);
validEmails.forEach(email => {
    Email.send({
        Host: "smtp.yourisp.com",
        Username: "username",
        Password: "password",
        To: email,
        From: document.getElementById("from").value,
        Subject: document.getElementById("subject").value,
        Body: document.getElementById("msg").value,
    }).then(function(message) {
        console.log("Mail sent to " + email);
    });
});
alert("Mail has been sent to all valid emails");
}
```

## 8. Conclusion

The Mass Mail Dispatcher project successfully demonstrates a user-friendly, efficient solution for sending bulk emails. By leveraging modern web technologies and libraries, the application provides a seamless experience for users. This project highlights the importance of simplicity and accessibility in software design, making mass email dispatch straightforward and accessible to a wide range of users.

I would like to extend my heartfelt thanks to “Exposys data labs” for giving me the opportunity to intern as a web Developer. This experience has been incredibly valuable for my growth and learning. The hands-on project have significantly enhanced my skills and knowledge in web development.

Moreover, the mentorship and guidance provided by the team at Exposys Data Labs have been instrumental in shaping my professional journey.

Thank you for this opportunity!