PROJECT REPORT

Mass Mail Dispatcher Website

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1. Abstract

This report documents the development of a Mass Mail Dispatcher website, completed as a one-month internship project at EXPOSYS DATA LABS. The application allows users to upload a CSV file containing email addresses, validate the email addresses for format correctness, and prepare them for bulk email sending (integration with a secure email service is recommended but not implemented due to security concerns). The website provides a user-friendly interface for managing email lists and sending bulk emails efficiently.

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3. Introduction

Mass email communication is a crucial tool for businesses and organizations. This project aimed to develop a user-friendly web application to streamline the process of sending bulk emails. The Mass Mail Dispatcher website facilitates easy upload, validation, and management of email lists, allowing users to send targeted communications efficiently.

4. Existing Methods

Several existing methods exist for sending bulk emails. These include:

1. **Email Marketing Platforms:** Paid services with comprehensive features for managing email lists, creating campaigns, and tracking results.
2. **Desktop Applications:** Standalone software for managing email contacts and sending bulk emails.
3. **Manual Email Sending:** Manually copying and pasting email addresses into email clients, which is time-consuming and prone to errors.

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5. Proposed Method with Architecture

The proposed Mass Mail Dispatcher website offers a web-based solution for sending bulk emails. The application has a two-tier architecture:

1. **Frontend:** Developed using HTML, CSS, and JavaScript to provide a user interface for uploading CSV files, displaying email lists, and initiating the sending process.
2. **Backend:** Developed using a server-side scripting language (e.g., Python with Flask) to handle file uploads, process CSV data, validate email addresses, and prepare email data for further processing (e.g., storing in a database or sending to an external email service).

6. Methodology

The project followed an iterative development approach:

1. **Requirement Analysis:** Defining the project functionalities and user needs.
2. **System Design:** Designing the website architecture and user interface.
3. **Development:** Developing the frontend and backend components.
4. **Testing:** Unit testing individual components and integration testing for overall functionality.
5. **Deployment:** Deploying the application to a web server (not covered in this report).

7. Implementation

7.1 Frontend Development

1. HTML: Used to structure the web page layout and define form elements for file upload and buttons.
2. CSS: Used to style the user interface components for an appealing look.
3. JavaScript: Used to handle user interactions like file upload, displaying email lists, and triggering the sending process (simulated in this project).

7.2 Backend Development

1. Flask (Python): Used as a lightweight web framework to handle server-side logic.
2. CSV library: Used to process data from uploaded CSV files.

8. Conclusion

The Mass Mail Dispatcher website successfully demonstrates a functional solution for uploading, validating, and managing email lists for bulk email sending. While the project omits the actual email sending functionality due to security concerns, it provides a solid foundation for integrating with a secure email service API. This project showcases the potential of web-based tools for streamlining bulk email communication.

9. Installation Instructions

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To run the Mass Mail Dispatcher project on your local machine, follow these steps:

1. Clone the repository to your local machine.
2. Open the project folder named "Project Code" in your preferred code editor.
3. Open the index.html file in your web browser.

10. Usage Instructions

To use the Mass Mail Dispatcher project, follow these steps:

1. Upload a CSV file containing email addresses.
2. The system will validate and sort the email addresses, separating the valid and invalid   ones.
3. Enter the email subject, body, and other details.
4. Click on the send button to dispatch the emails.

11. Dependencies

The Mass Mail Dispatcher project uses the following dependencies:

- EmailJS API [emailjs.com]

12. Technology Stack

- The Mass Mail Dispatcher project uses the following technologies:

1. HTML
2. CSS
3. JavaScript
4. EmailJS API

Libraries Used:

- Frontend:
    - HTML5
    - CSS3
    - JavaScript (version can be specified based on chosen framework)
- Backend:
    - Flask (Python) - (mention version if relevant)
    - csv library (version can be specified based on chosen package manager)

Examples:

Here are some examples of how the Mass Mail Dispatcher project can be used:

1. Sending newsletters to a list of subscribers.
2. Sending event invitations to a list of attendees.

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3. Sending product updates to a list of customers.

Troubleshooting:

If you encounter any issues when running the Mass Mail Dispatcher project, try the following solutions:

1. Ensure that you have uploaded a CSV file containing valid email addresses.
2. Check that you have entered all the required fields correctly.

13. Testing

1. The Mass Mail Dispatcher project has been thoroughly tested to ensure its functionality.
2. The project has undergone unit testing and integration testing to ensure that it meets all the   requirements set out in the initial proposal.

THANKYOU.