



PARSHWANATH CHARITABLE TRUST'S

# A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering  
Data Science



## **NotifyMe! (CRM)**

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**Project Guide**  
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# 1. Introduction

## **Problem Identified:**

- Lack of effective communication between clients and companies, leading to missed opportunities and decreased client satisfaction.
- Need to track services provided to the user, and generate an analysis report to calculate the profit earned.
- Lack of a Complete Single Sales Suite aiming Lead Generation with Customer Data Management.

## **Solution Proposed:**

- A centralized platform integrating communication tools like email and WhatsApp to enhance client-company interactions.
- Analyze the data using matplotlib for the purpose of tracking profit and creating a report for following purpose.

## 2. Objectives

1. Implement CRUD operations to efficiently manage data within the system.
2. Enable data visualization and analytics for insightful decision-making.
3. Integrate SMS functionality to streamline communication processes.
4. Embed WhatsApp and Gmail to facilitate seamless formal communication.

### 3. Scope

1. **Integration and Scalability :** The system will be integrated with a MySQL database for efficient data storage and management and What's App + Email for customer Interaction.
2. **Client Interaction:** The CRM system will be allow the Employee to send client schedules for upcoming meeting through Whatsapp and email
3. **User-Friendly Interface:** The CRM system will provide an intuitive and easy-to-use interface, ensuring that users with varying technical skills can navigate and operate the system effectively.
4. **Data Management:** It will provide features for updating, deleting, and retrieving customer data efficiently through a centralized database (MySQL integration).

## 4. Feature / Functionality

1. **User Authentication:** To be able to create accounts with validated inputs where existing users can login using their credentials.
2. **What's App + Email Integration:** To provide customer communication.
3. **Customer Data Managements:-** To be able Create, Read, Update and Delete Customer data stored in MySQL database for easy access
4. **Meeting scheduling:-** Employees can upload Excel files containing meeting schedules. Reminders are sent to clients via WhatsApp before the meeting By the Employee.

## 5. Outcome of Project

1. **Efficient Customer Data Management:** A centralized platform where customer information is securely stored and easily accessible, improving data consistency and reducing fragmentation across departments.
2. **Improved Customer Relationships:** Enhanced customer interactions through personalized communication, leading to increased customer satisfaction, loyalty, and retention. The system streamlines the process of bill generation and distribution.
3. **User-Friendly Experience:** An intuitive interface that makes the system easy to use, improving user adaptation and ensuring effective use of the system's features.
4. **Data Analysis:** Success in analyzing data and representing it through graphical representation, like a Pie chart, across various departments

# Home Page

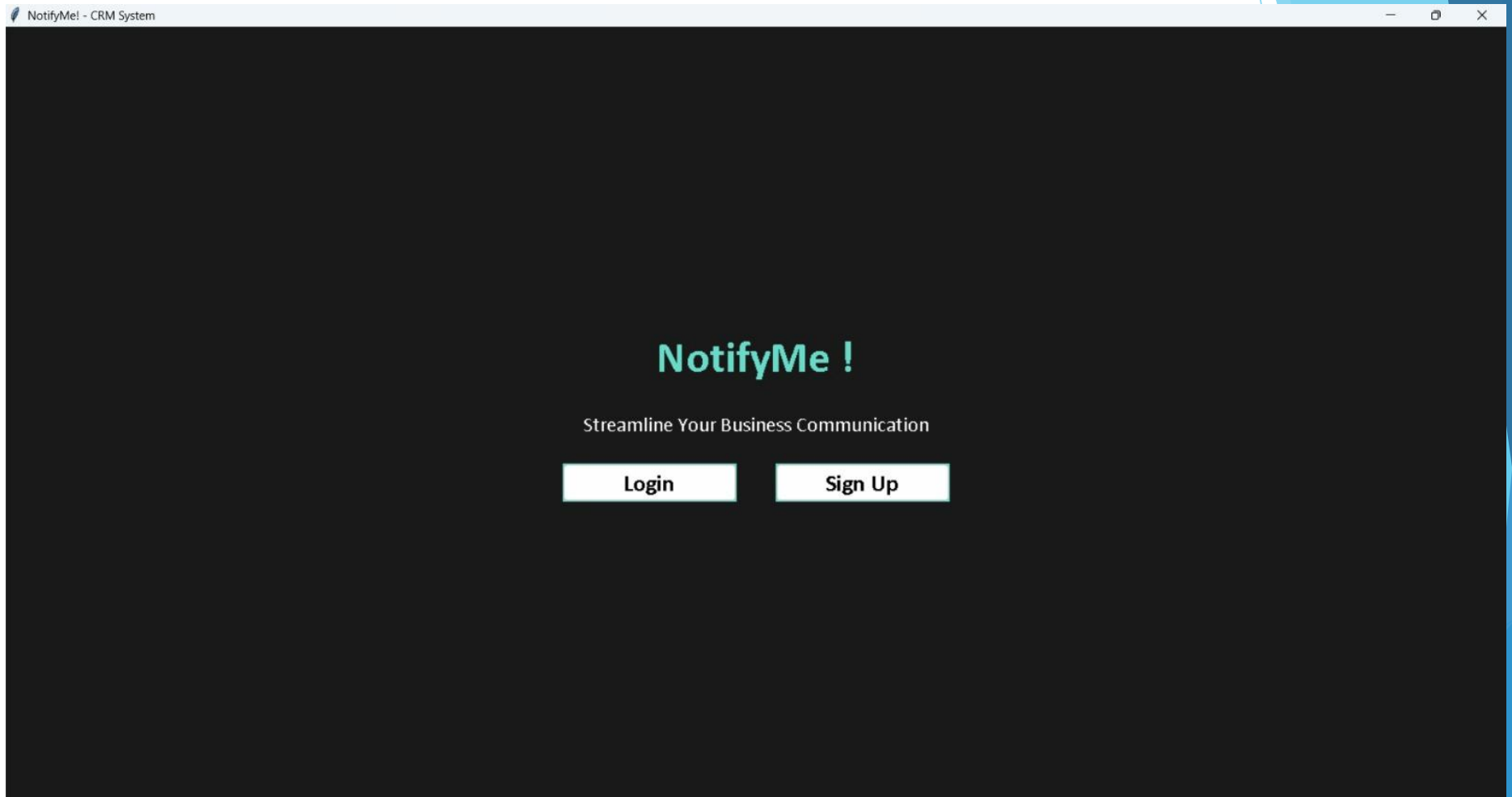
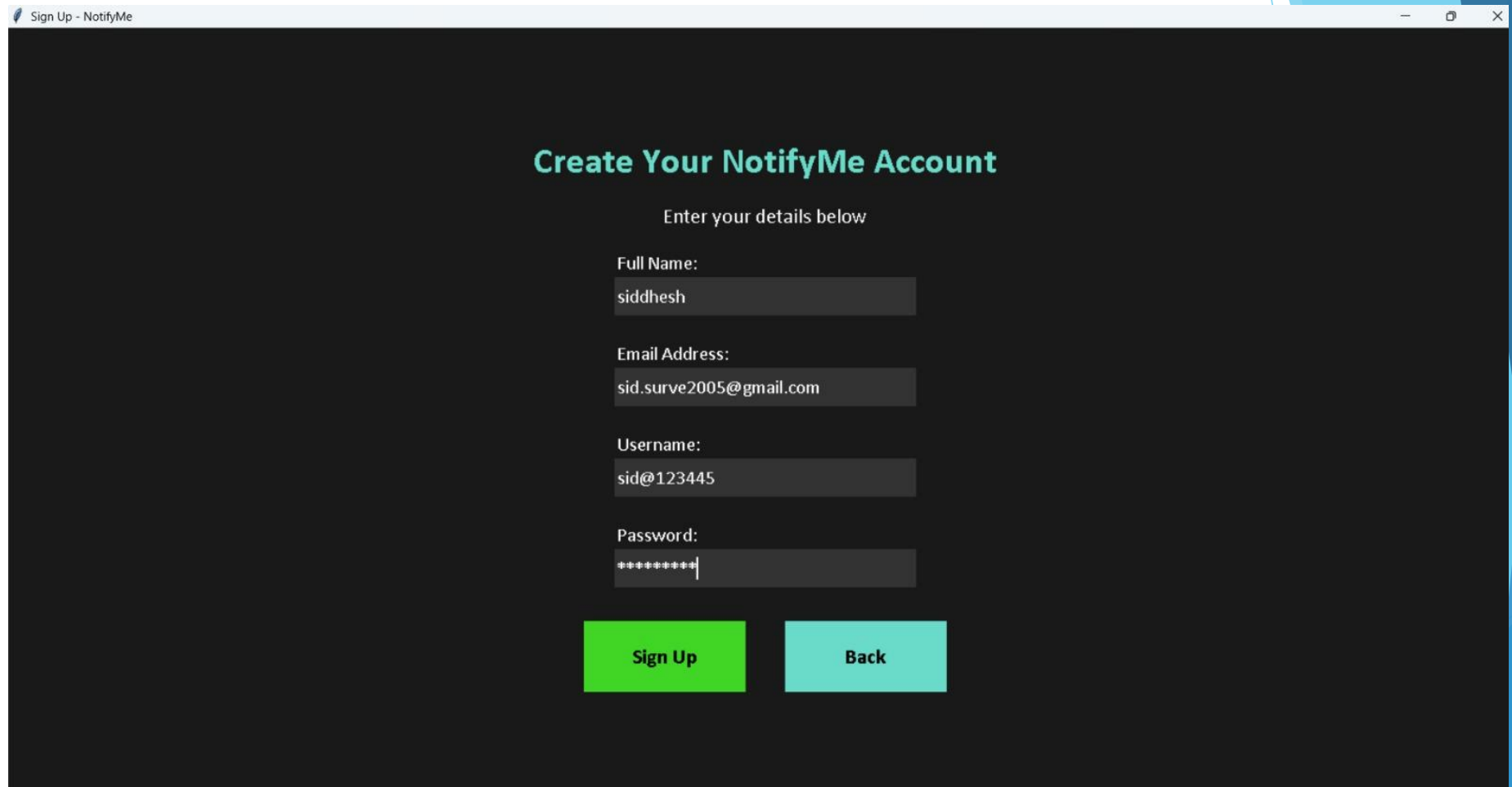


Fig 1. Home Page



# Sign-up Page



Sign Up - NotifyMe

## Create Your NotifyMe Account

Enter your details below

Full Name:  
siddhesh

Email Address:  
sid.surve2005@gmail.com

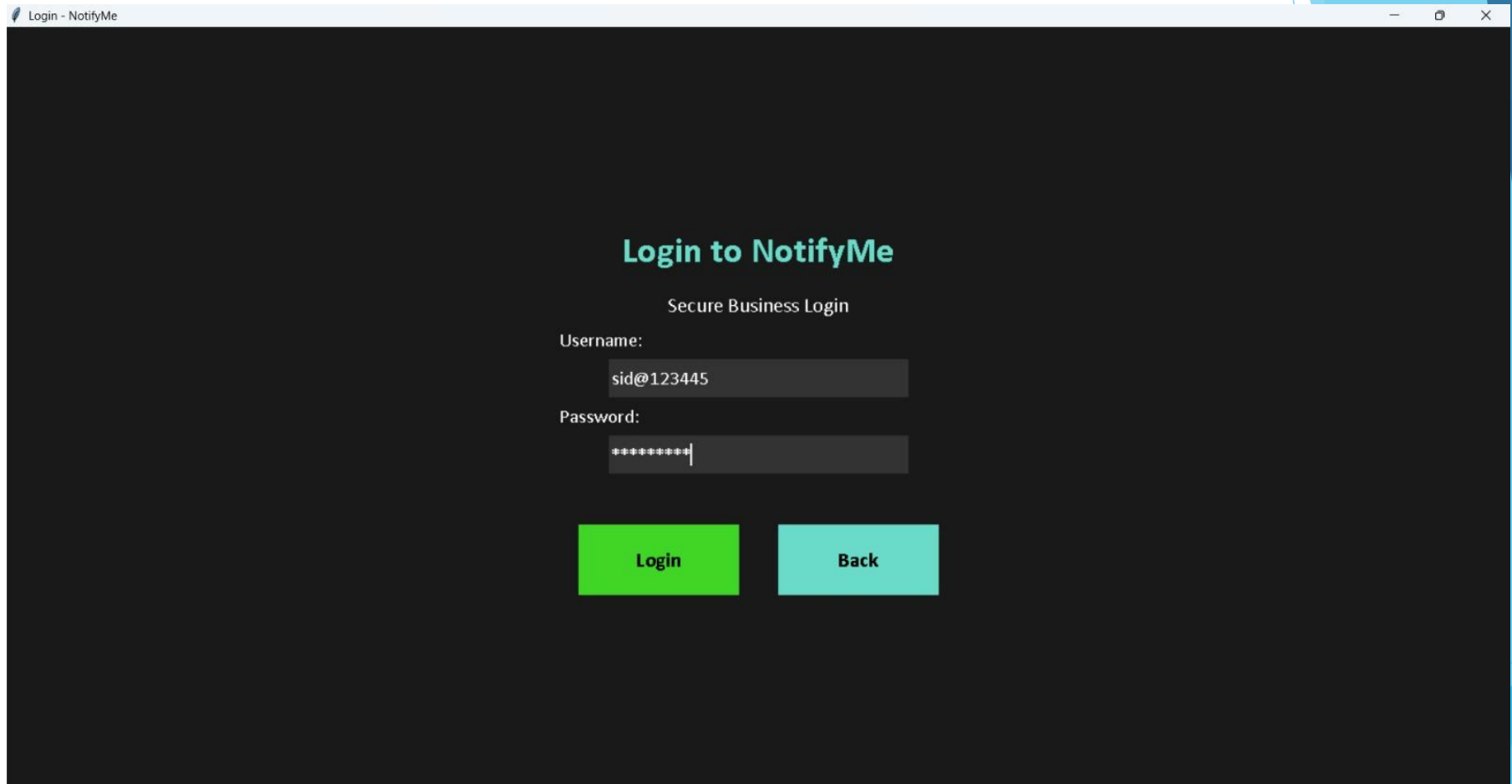
Username:  
sid@123445

Password:  
\*\*\*\*\*

**Sign Up** **Back**

Fig 2. Signup Page

# Login Page



The image shows a web browser window with the title 'Login - NotifyMe'. The page has a dark background and contains the following elements:

- Login to NotifyMe**: A heading in a light blue font.
- Secure Business Login**: A sub-heading in a light gray font.
- Username:** A label in light gray text above a text input field containing 'sid@123445'.
- Password:** A label in light gray text above a password input field showing eight asterisks and a cursor.
- Login**: A bright green rectangular button.
- Back**: A light blue rectangular button.

Fig 3. Login Page

# Dashboard

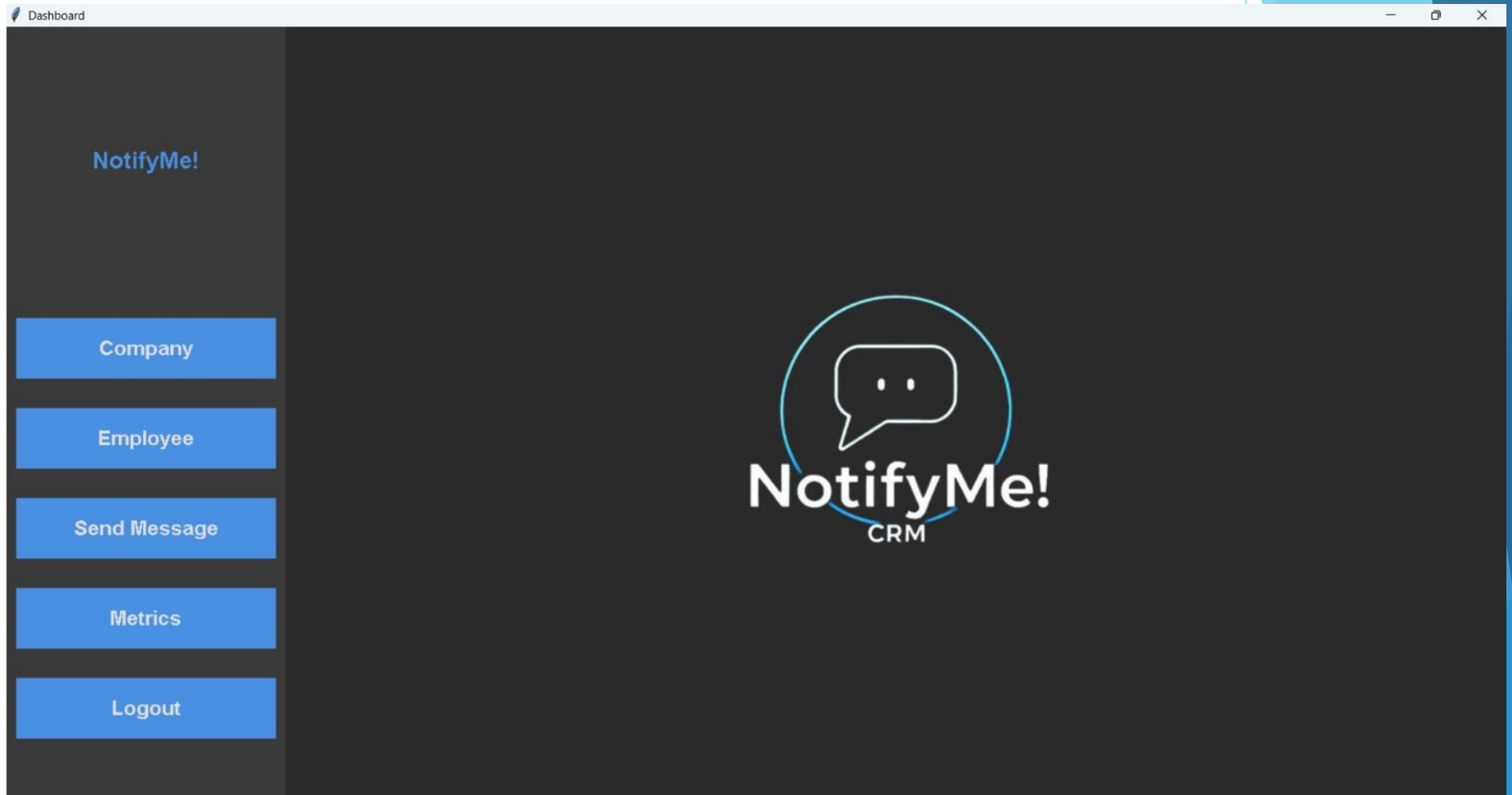


Fig4. Dashboard Page

# Company Management Page

Company Management

ID: 23  
Name: J  
Contact No: 2323445  
Primary Business: sop  
Secondary Business: sip  
Since: 2024-09-08  
Email: sid@234  
Website:

ID: 76  
Name: dshuhdu  
Contact No: 76654  
Primary Business: vhg  
Secondary Business: tftre  
Since: 2023-09-07  
Email: wes@23gmail.com  
Website:

ID: 101  
Name: Tech Innovations  
Contact No: 123  
Primary Business: Software Development  
Secondary Business: IT Consulting  
Since: 1905-07-02  
Email: info@techinnovations.com  
Website: www.techinnovations.com

ID: 102  
Name: Green Energy Corp  
Contact No: 789  
Primary Business: Renewable Energy  
Secondary Business: Power Distribution  
Since: 1905-06-27  
Email: contact@greenenergy.com  
Website: www.greenenergy.com

ID: 103  
Name: MediCare Solutions  
Contact No: 1455  
Primary Business: Healthcare Services  
Secondary Business: Medical Supplies  
Since: 1905-06-22  
Email: sales@medicaresolutions.com  
Website: www.medicaresolutions.com

ID: 104  
Name: BuildRight Constructions  
Contact No: 2121  
Primary Business: Construction  
Secondary Business: Real Estate  
Since: 1905-06-17  
Email: build@buildright.com  
Website: www.buildright.com

Add New Company

Update

Delete

Website

Bulk Data

Back

Fig 5. Company Management Page

# Operations of Company Management Page

The figure displays three overlapping screenshots of a web application interface for company management.

**Add Company** (Left): A form with fields for Company ID, Company Name, Contact No, Primary Business, Secondary Business, Since, Email, and Website. A green **Submit** button is at the bottom right.

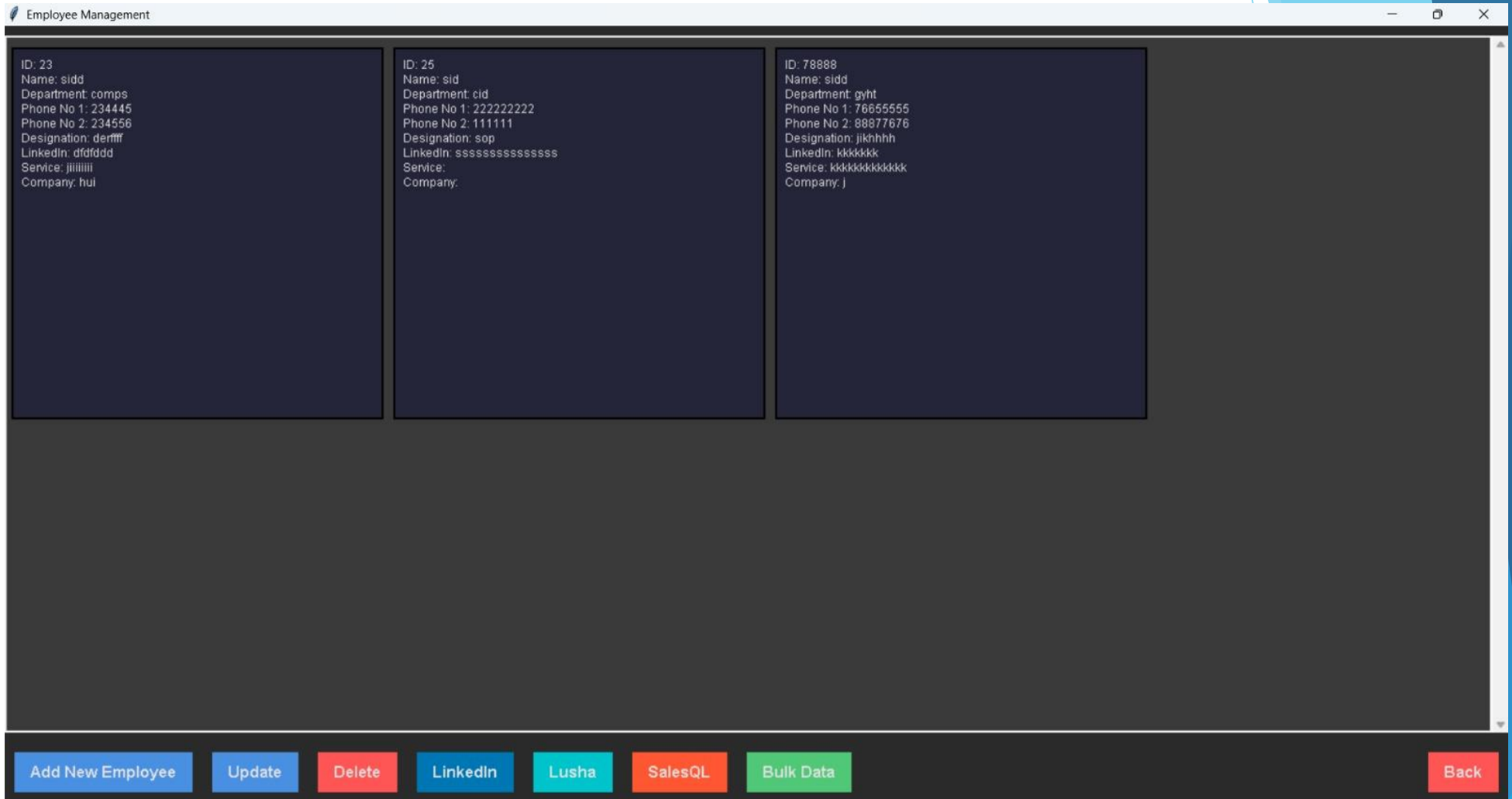
**Update Company** (Right): A form with fields for Company ID (103), Company Name (MediCare Solutions), Contact No (1455), Primary Business (Healthcare Services), Secondary Business (Medical Supplies), Since (1905-06-22), Email (sales@medicaresolutions.com), and Website (www.medicaresolutions.com). A green **Save** button is at the bottom right.

**Bulk Data Upload** (Center): A modal window titled "Upload Excel File" showing "No file selected". It contains a green **Browse** button, a green **Submit** button, and a red **Back** button.

**Confirm** (Top Center): A small modal window asking "Are you sure you want to delete this company?" with **Yes** and **No** buttons.

Fig 5.1. Various Operations of Company Management Page

# Employee Details Page



The screenshot shows a web application window titled "Employee Management". The main content area displays three employee details in a grid. Each detail block contains the following fields: ID, Name, Department, Phone No 1, Phone No 2, Designation, LinkedIn, Service, and Company. The first two blocks are on a dark blue background, and the third is on a dark grey background. At the bottom, there is a navigation bar with buttons for "Add New Employee", "Update", "Delete", "LinkedIn", "Lusha", "SalesQL", "Bulk Data", and "Back".

ID	Name	Department	Phone No 1	Phone No 2	Designation	LinkedIn	Service	Company
23	sidd	comps	234445	234556	derfff	dfdfdd	jililili	hui
25	sld	cid	222222222	111111	sop	ssssssssssssss		
78888	sidd	gyht	76655555	88877676	jikhhhh	kkkkkk	kkkkkkkkkkkk	j

Navigation Bar: Add New Employee, Update, Delete, LinkedIn, Lusha, SalesQL, Bulk Data, Back

Fig 6. Employee Management Page

# Send Message Page

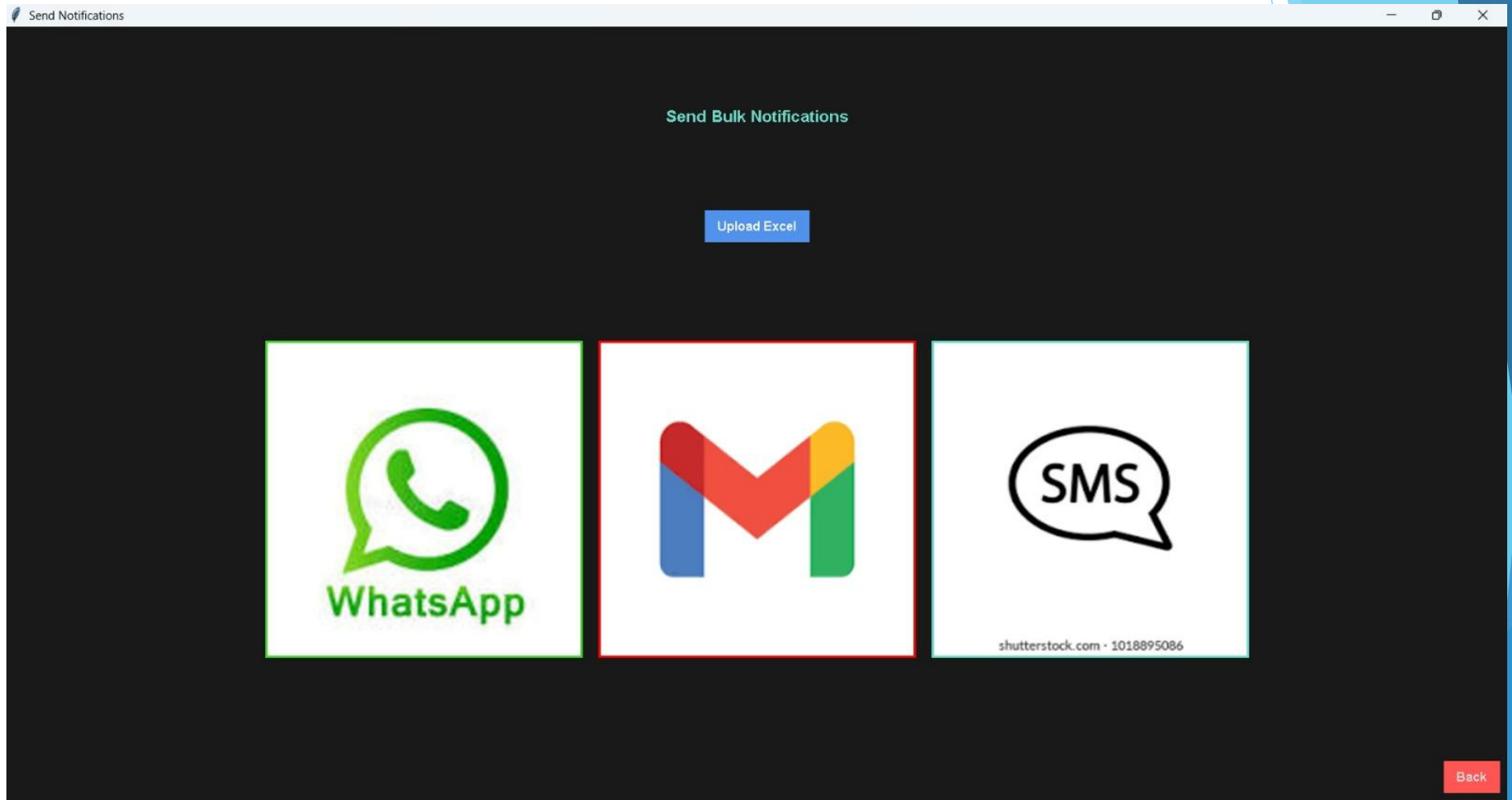
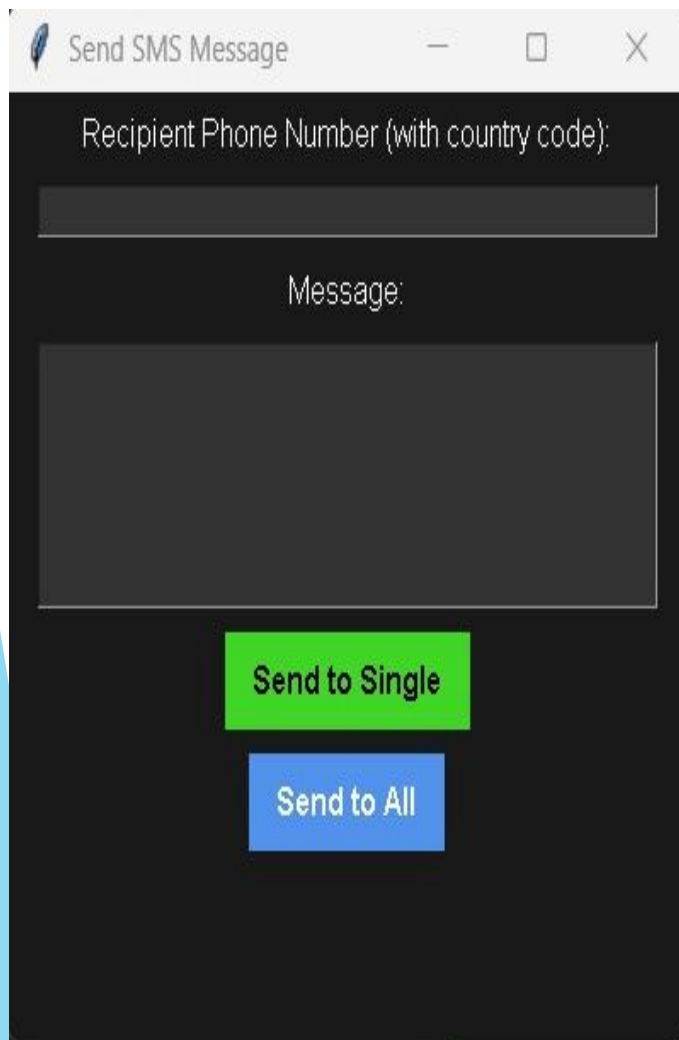


Fig 7. Send Message Page

# Send Message Page



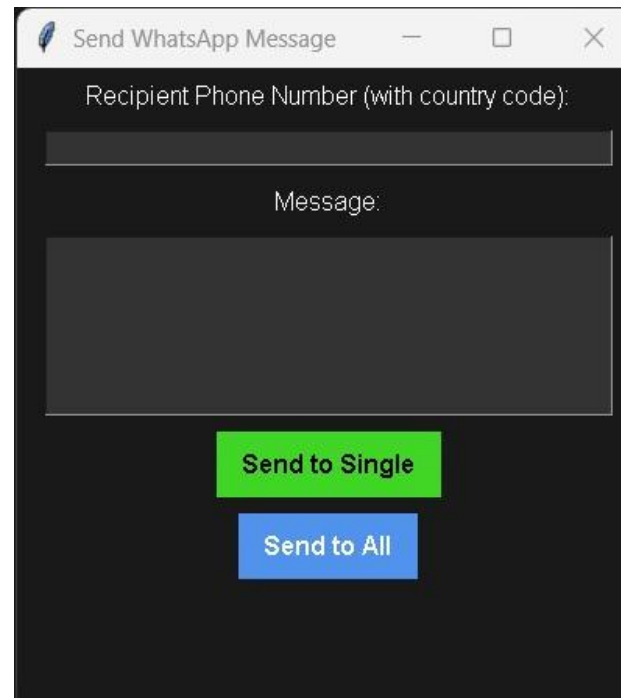
Send SMS Message

Recipient Phone Number (with country code):

Message:

**Send to Single**

**Send to All**



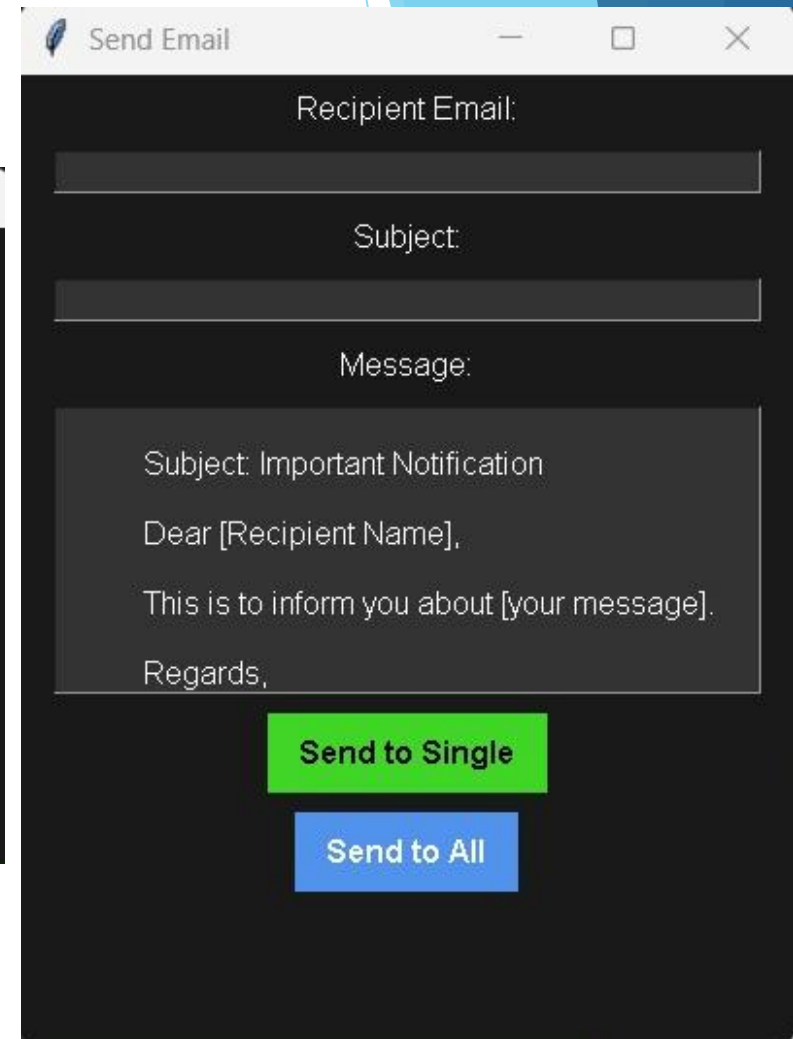
Send WhatsApp Message

Recipient Phone Number (with country code):

Message:

**Send to Single**

**Send to All**



Send Email

Recipient Email:

Subject:

Message:

Subject: Important Notification

Dear [Recipient Name],

This is to inform you about [your message].

Regards,

**Send to Single**

**Send to All**

Fig 7.1 Various Methods provided for Communication.



# Metrics Page

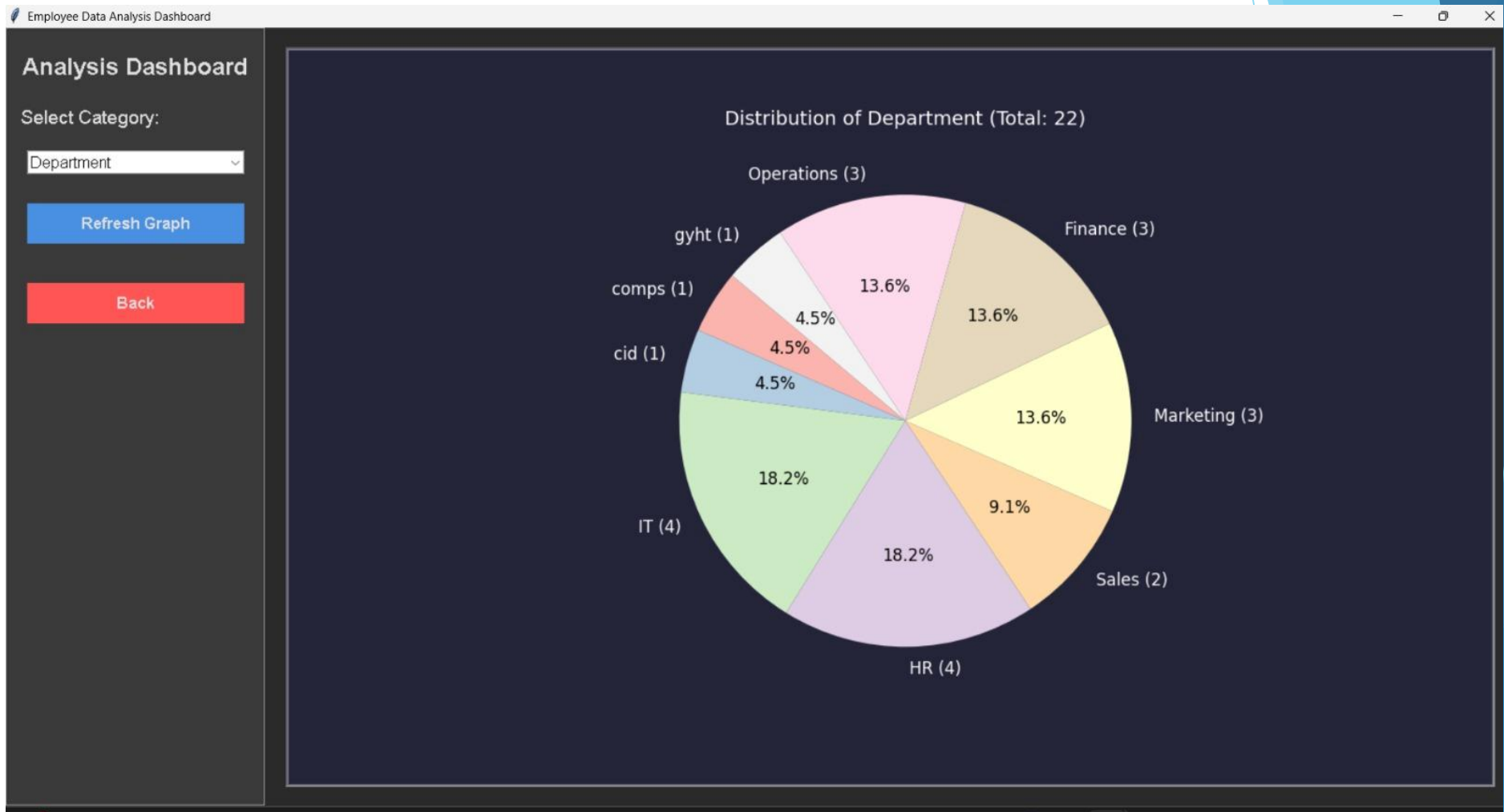
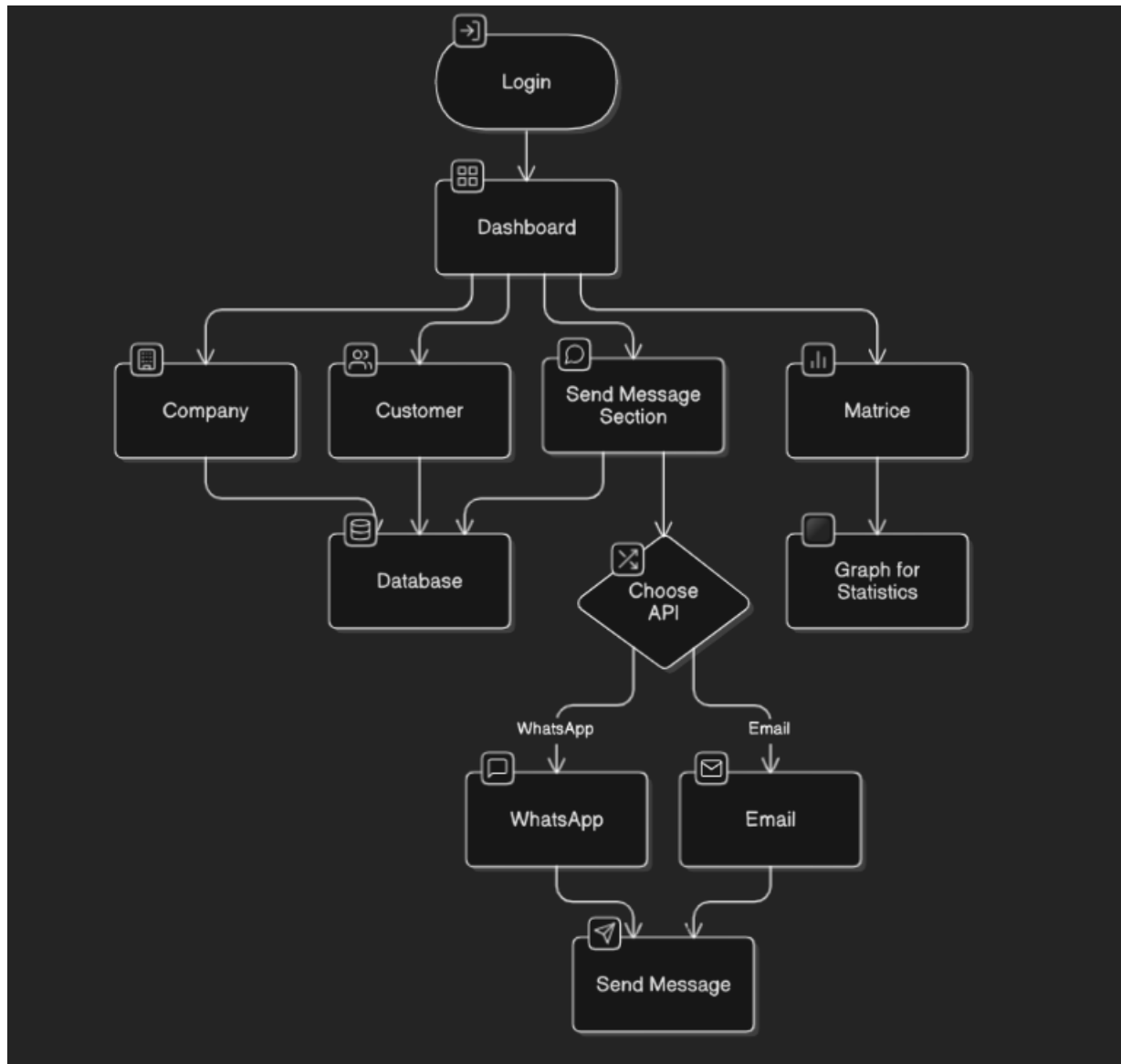


Fig 9. Metrics (Data Analysis) Page

## 6. Technology Stack

- 1. Front-End:** Tkinter, Python library for creating the user interface.
- 2. Back-End:-** MySQL 8.0 is used for database management, ensuring efficient storage and retrieval of billing data.
- 3. APIs and External Services:** Twilio API For sending WhatsApp messages. SMTP For sending emails. Excel Integration Using Pandas and OpenPyXL.
- 4. Libraries and Frameworks:** *Pandas* For processing Excel files. *OpenPyXL* For reading/writing Excel files. *Twilio Python Library* For WhatsApp integration. *smtplib* For email integration. *Matplotlib* for data analysis. *pywhatkit()* For Single and Bulk WhatsApp Messaging, *Pyautogui()* for Automation of Bulk Messaging on WhatsApp. *Mail.meme* for Email messaging.

# 7. Block Diagram



**Thank You...!!**