

BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN

INFORMATION TECHNOLOGY

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1 PHONE DIRECTORY DS PROJECT

Using Doubly Linked List

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3 PROPOSED PROJECT

- It develops a graphical user interface (GUI) application using the Tkinter library to create a functional phone directory.
- The program enables users to seamlessly add, display, and delete contacts while incorporating a search functionality.
- Contacts are organized in a doubly-linked list and sorted alphabetically by name.
- Notable features:
 - Address field
 - Birthday reminders
 - Switching from light mode to dark mode and vice versa.

4 MODULES USED

- **tkinter:** The standard GUI (Graphical User Interface) toolkit for Python. It provides the basic components and functionalities to create windows, buttons, labels, and other GUI elements.
- **messagebox:** A submodule of the tkinter library that provides a simple way to create pop-up message boxes.
- **datetime:** A module for working with dates and times. Used in this code to get the current date and format it.
- **PhotoImage:** We use tkinter's PhotoImage class to manage and display the background image

5 FEATURES

- **Add Contact:** Users can input a contact's name, phone number, birthday, and address. The application then adds the contact to the phone directory, with contacts being sorted alphabetically by name.
- **Display Contacts:** The application showcases the phone directory in a sorted order based on contact names. Moreover, it notifies users if a contact has a birthday on the current day.
- **Delete Contact:** Users have the ability to remove a contact by providing the contact's name. Subsequently, the application updates the phone directory to reflect the changes.
- **Dark/Light Mode:** The GUI incorporates a toggle button, allowing users to switch between dark and light modes. This feature enhances visual customization options, catering to user preferences.

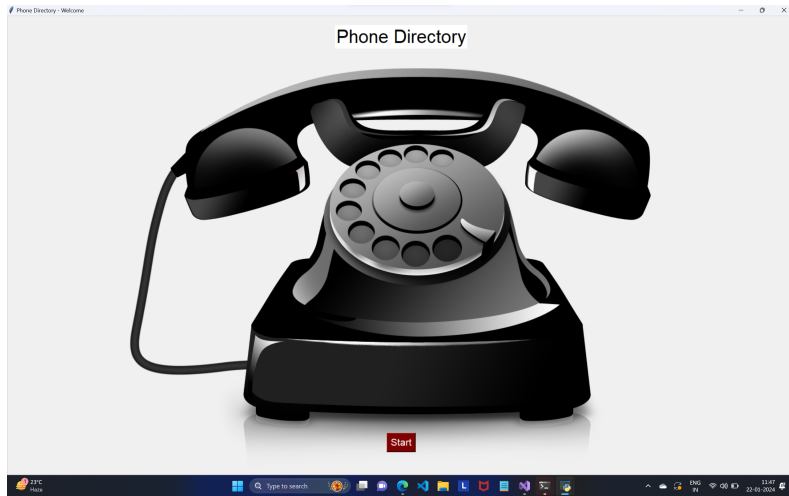


Figure 1: Start Page

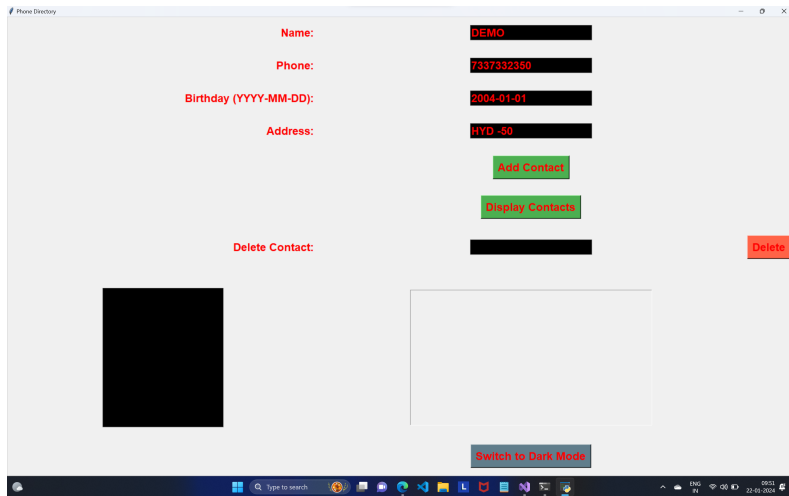


Figure 2: User Interface

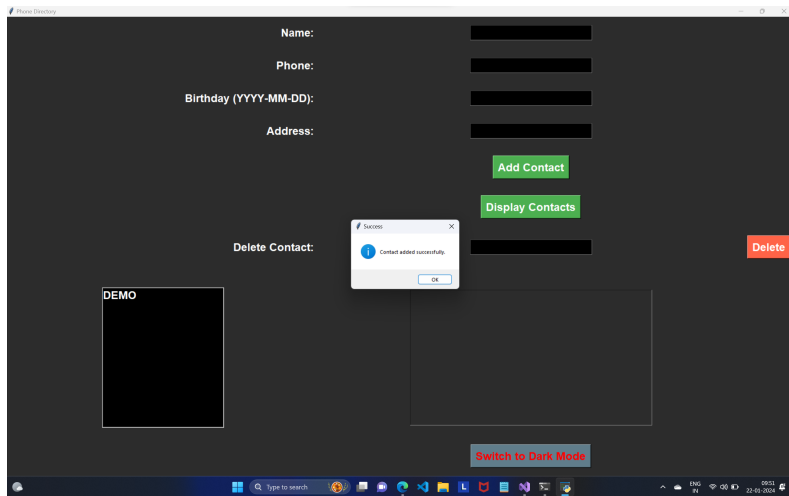


Figure 3: Adding a Contact

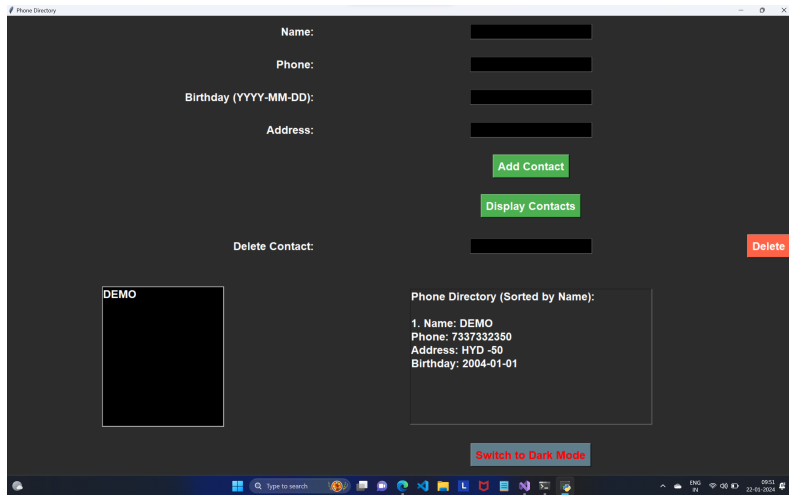


Figure 4: Displaying Contact

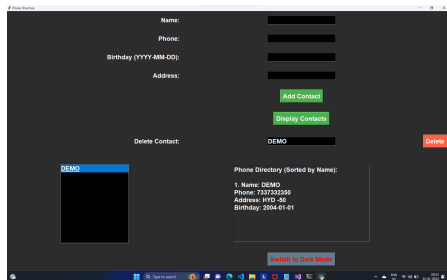


Figure 5: Option to select for deletion

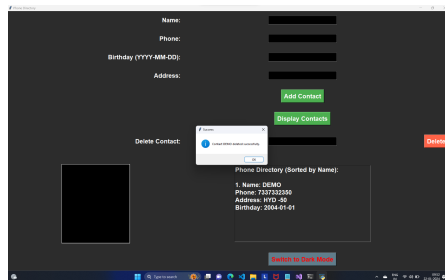


Figure 6: Deletion

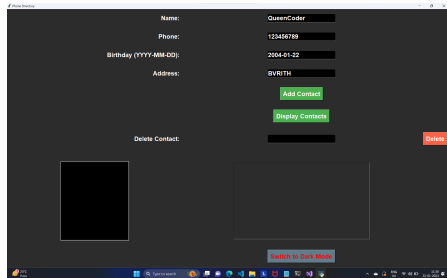


Figure 7: Hey its someone's birthday today

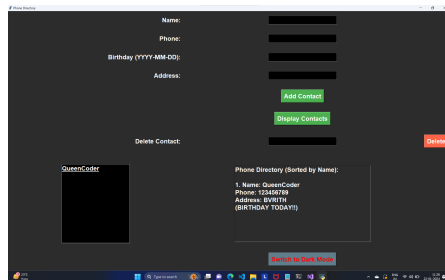


Figure 8: Voila! we got a reminder

Thank
you