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**College of Informatics and Computing Sciences**

# Volunteer Management System

By:

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### PROJECT OVERVIEW

The project aims to provide a simple, user-friendly desktop application for managing volunteer information. It allows users/organizers to easily view, filter, edit, and remove volunteer entries through a clean and straightforward graphical interface. This system helps create a organized system for volunteers eliminating the use of forms, spreadsheets or paper which can become messy and inefficient. Our target users would be non profit organizations, event coordinators and school clubs/community groups

### PROJECT OBJECTIVES

- To design and develop a Python-based desktop application that streamlines the process of storing, updating, and managing volunteer information.
- To implement a user-friendly graphical user interface (GUI) using Tkinter that presents volunteer records clearly through structured card-style layouts and organized forms.
- To ensure reliable data persistence by using JSON file handling, enabling the system to automatically save, load, and maintain volunteer records across sessions.
- To incorporate classification features—such as interests, availability, and experience levels—that improve the system’s ability to sort, filter, and organize volunteers effectively.
- To enhance usability through additional interface functionalities, including a search bar, responsive design elements, and light/dark theme options.
- To apply core Python programming principles, including object-oriented design, modularization, event-driven programming, and file I/O operations, as part of the system’s overall architecture.

### SYSTEM REQUIREMENTS

List everything needed to run the project:

- Python 3.10 or higher
- Tkinter, ttk, json, datetime, os(no pip installation required)

### USAGE INSTRUCTIONS

- Interface Description
  - Search Bar- Allows users to search volunteers by name, interest or keywords
  - Theme Toggle Button- Switches between light and dark mode
- Main Volunteer List
  - Displays all the volunteers as card panels:



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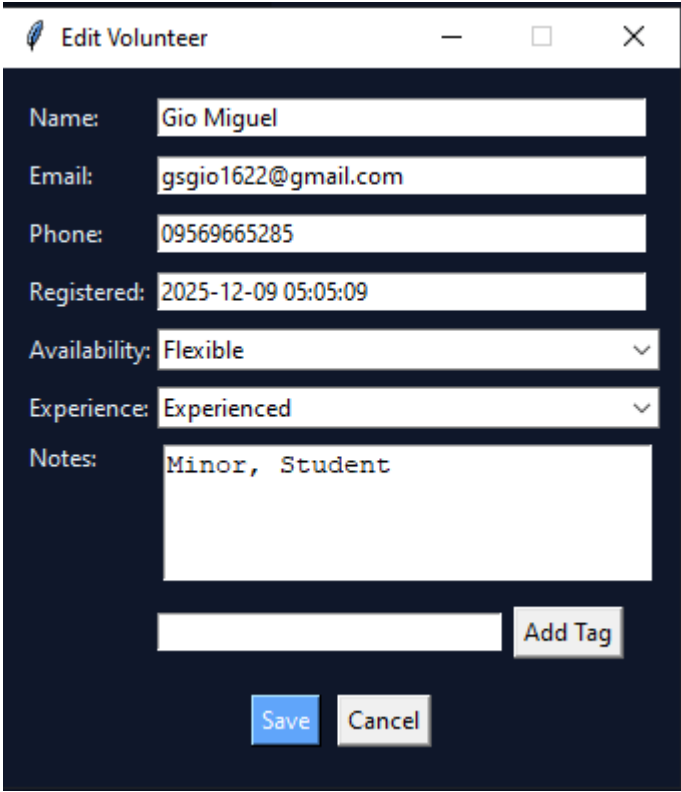
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- ◆ Name
- ◆ Contact Information
- ◆ Availability and Experience
- ◆ Interests
- ◆ Notes
- Edit Button: allows users to edit information about the volunteer
- Delete Button: Deletes the volunteer
- Add Volunteer Button: Allows users to add new volunteers

**Sample Screenshots:**





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Volunteer Manager

Search

Add Volunteer

Export JSON

Toggle Dark Mode

Gio Miguel

gsigio1622@gmail.com

09569665285

Registered: 2025-12-09 05:05:09

Areas of Interest:

Flexible

Experienced

Notes:

Minor, Student

Confirm

?

Delete Gio Miguel?

Yes

No