**Python Project Documentation**

***Release 1.0***

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Python Project is a tool for saving a contact’s details, such as insertion time, name, address, phone number, and email address, With the contact book project idea, users can save their contacts with less risk of losing the saved contact details. It’ll always be accessible from their computer, through the command-line.

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# CHAPTER 1

# Main Objective

## 1.1 Objective

The main objective of this project is to save contact details in csv file. It’s important that you set up the commands.  
Users can use to enter the contact details. They abstract a lot of complex stuff, so you only must focus on the logic to be run when executing commands.

## Some features you should implement include the commands to delete contacts, update contact information, and list saved contacts

## 1.2 Features

## There is some features

## Enter new records

## Update a file record

## Delete record

## View a selected file

## Make a backup and upload it to AWS S3 bucket

# CHAPTER 2

# workflow

## 2.1 Files

- MainFunc.py : include all functions

- main.py: file call the menu functions

- aws\_backup\_zip: achieve file contain all csv files

- videos: contain all features video

## 2.2 package need to install

- csv and pandas: to make dealing with csv more easy

- re: to check the regex of inputs

- os: to interact with system and files

- boto3 and pathlib: to upload file to s3

## 2.3 workflow of menu function

## Diagram Description automatically generated

**Chapter 2. Changelog**

# CHAPTER 3

# Functions

## 3.1) Menu()

This Function to allow the user choose option where:

(1) to enter new record (call EnterRecord function)

(2) to update a file record (call update function)

(3) to delete record (call delete function)

(4) to view a file (call view\_file function)

(5) to make a backup and upload it to aws(call aws\_backup function)

(6) quit from the project

## 3.2) EnterRecord()

This function to input the record and sure the input is in valid form using re library and then save all inputs in list and call saveRecord function to save it in csv file with today's date

## 3.3) update()

This Function allow the user to choose file then check if it is exist then let him choose the name of contact to update and then choose which information to be update.

## 3.4) delete()

This Function allow the user to choose file

If exist, then let him choose the name of contact to update

If exist, let him choose which information to be update

Else return to the menu.

## 3.5) view\_file()

This Function allow the user to choose file to view its content, if not exist return to the menu function

## 6) aws\_backup()

This Function copied all csv files in a folder and archived it, then uploaded the archive file to s3 bucket.

It takes the s3 bucket, IAM user credentials and then uploaded it to the bucket

## 7) SaveRecord(data)

This Function create today csv file if not exist, else append on it then save the argument data in it