

C-TAG

CODING AND TRAINING ACADEMY BY GANDHIS

Python

Date: 4th September 2021

Marks: 30

Question:

Write a Program in Python to Create a System for "Covid Relief Fund" organization, which aims to aid the needy in this time of pandemic. The organization wants to set up a charity website wherein the users can provide support to the needy by donating food, clothing, or financial support.

They are counting on you to create a user-friendly system which would check the authentication for admins and users differently and then, as per the choice, the option menu should provide the following functionalities:

If user is admin,

1. Total Charity Items
2. Total amount collected
3. View individual charity
4. Exit

(Note: Attempt any 2 of the given 3 functionalities)

If the user is not admin,

1. Provide financial support
2. Donate necessities
3. View your donations
4. Exit

(Note: Attempt any 2 of the given 3 functionalities)

The user should be greeted first, and then the login screen should look as follows:

```
*****Namaste!*****
***Covid Relief Fund***
In this challenging times, when everybody is struggling to maintain their work-life
balance, many citizens of our nations are deprived of basic necessities of life.
We have taken upon the responsibility to aid those in need, and we need your help.
-----
Login:
Enter username:
Enter password:
```

Admin credentials: If the username is "admin" and password is "admin123".

Others: Any other username and password.

The user's donations are to be stored in a file.

And when the user wants to view their donations, or the admin wants to view individual charity, the data of the file should be used.

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Non-admin functionalities:

1. Provide financial support

The screen should ask for the amount the user is willing to donate, the method of payment. If the mode of payment is through cash, ask for the number of notes of different denominations. If the payment mode is online, ask for the OTP which would be received by the user.

The screen should be as:

```
*****Financial support*****
Enter the amount: 5000
Enter the mode of payment: Online
...Processing
Enter the OTP: 123456
...Success!
Donation made. Thank you for your support. We will make sure your donations
help in making the current circumstances a little better.
```

```
*****Financial support*****
Enter the amount: 5000
Enter the mode of payment: Cash
Enter the notes of denominations:
2000:2
500:2
200:0
100:0
50:0
10:0
...Processing
...Success!
Donation made. Thank you for your support. We will make sure your donations
help in making the current circumstances a little better.
```

Add the details of the amount and mode of payment to the file.

2. Donate necessities

```
*****Donate necessities*****
Enter item name: Clothes
Enter quantity: 5
...Success!
```

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Please send the donations at our nearest facility
Thank you for your support. We will make sure your donations help in making the current circumstances a little better.

Necessities can be any, for example, clothes, food, hygiene, footwear, educational, miscellaneous.

Along with storing the items in the file, **a dictionary is to be maintained for the number of each item.** (So that the admin can view them in "View charity items")

3. View your donations

The user's total donation is to be printed when the user presses 3.
Total donations consists of both charity items and financial support.

Admin functionalities:

The admin can view the details of the donations.

1. View charity items

Use the above created dictionary to print the total number of different items donated.

2. Total amount collected

Prints the sum of the total amounts collected.

3. View individual charity

This is supposed to print the charity provided by each individual.
The format should be as such that can easily be understood by the viewer.
Example:

*****View individual charity*****

1. Time: 3:45 p.m.

Donation category: Basic necessities – Clothes 5

Hygiene products 10

Financial support - 5000

2. Time: 5:15 p.m.

Donation Category: Financial support – 3000

3. Time: 5:45 p.m.

Donation Category: Basic necessities – Books 10

You can modify the format as per the requirement