

A Desktop Software for helping Flood affected people to be used at flood relief camp

End term project

By

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**PROJECT GITHUB LINK:** <https://github.com/Avon11/INT-213-FloodRelief-Project>

## Student Declaration

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other source have been duly acknowledged. We aver that if any part of the report is found to be copied, we are shall take full responsibility for it.

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Date: 29-10-2020

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### BONAFIDE CERTIFICATE

Certificate that this project report “A Desktop Software for helping Flood affected people to be used at flood relief camp” is the bonafide work of “ABHINAV RANA, ANSHIKA, AKASH RAY” who carried out the project work under my supervision.

NAME: Dr Dhanpratap Singh

UID: 25706

DEPARTMENT: School of CSE

### Background and Objective of project

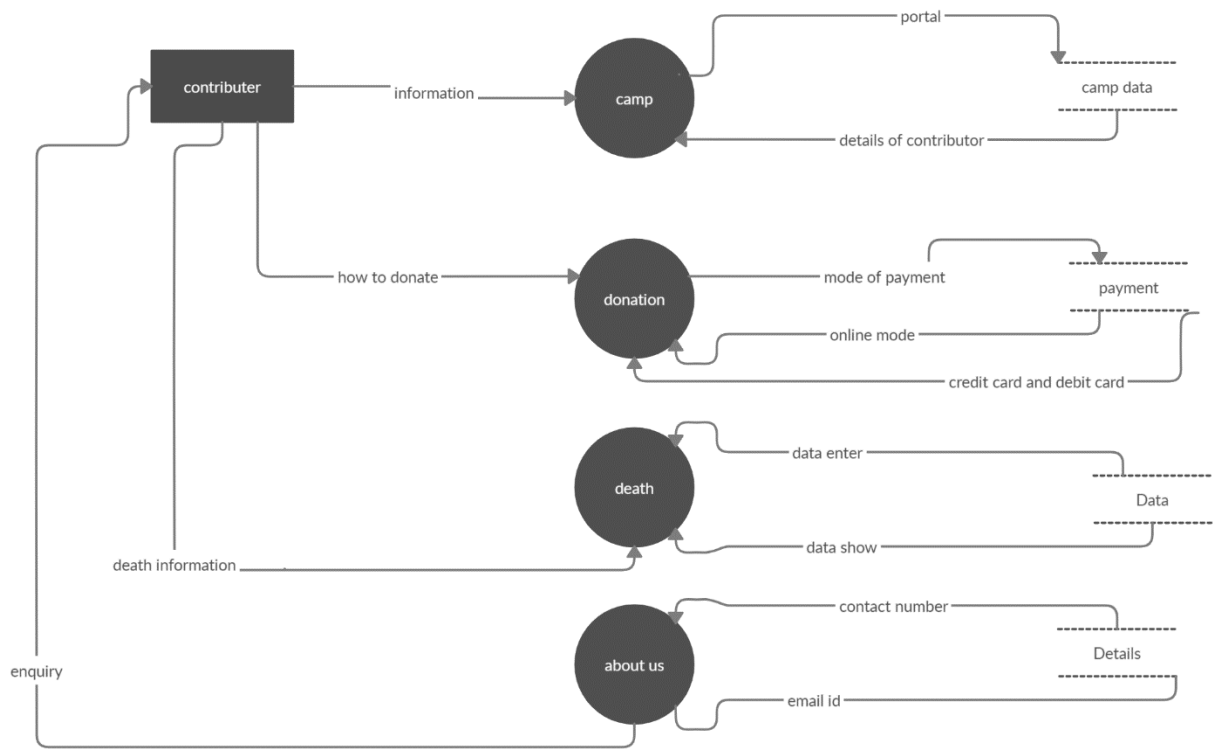
We all know that every year not only India but also other part of world face the problem of flood due to this environmental disaster lots of problems faced by people. people lost their lives there kith and kin the area which used to be beautiful before flood but after flood all beauty turns into a barren land due to this man your people lost their occupation flood have large social consequences for communities and individual as most people are well aware that immediate impact of flooding include loss of human life damage to property destruction of crops loss of livestock and loss of water borne disease but as a human being we cannot stop the disaster but you as a responsible human we can help people who are suffering from this kind of situation damage caused by flood are immediate license lost properties are destroyed and if ruler areas are hit crop are destroyed . Flooding causes several damages, disrupts economic processes and causes of food shortage. Consequences of flooding on property value will cause areas who continue to have flooding problems to have a decrease in real estate value. there will be areas that are more prone to flooding issues the flood problems in these areas including the already degraded state of the environment. Flooding impact specially in urban areas is enormous. People may have to get stranded during the commute and get stuck for arts the flood destruction in cities disrupts business commerce and tourism.

Flooding issues include family is being displaced resulting in grid problem. mental health professionals should be a part of the emergency response team to help people deal with the consequences of the loss of property and loved ones. long term challenges may include having to deal with the loss of livelihood and property. Individuals affected need to rebuild the life and possession. Government help is needed in this situation and repairing structures that can help a community recover. due to this people may be compelled to live a place if there is a regular occurrence of the basil flood in an area there can be mass migration to higher or saver areas. people who have been constantly Divas stated by disasters such as floods may be moved to abandon their homes and routes entirely to plan out better future in the place away from floods. often people move to cities which cause much congestion in these areas and further economic challenges.

So, after big flood or any other kind of disaster communities takes access to ensure people safety and decrease the chance of property of life loss during the next natural disaster. In our project we caught in Idea where we can organize a camps in which we can provide basic facilities to the people who are suffering from this crucial time different kind of camps are organized to make them comfortable lots of people contribute in these who are willing to have this kind of people as they may include who take care of climate conditions what kind of food should we provide to those peoples planning of good town basic needs and all the essential goods and services we can provide to the people so here we organize the refugee kind of camp in which there are lots of sections hospital section , management department, food storage department donation department .where In this also people can donate money or whatever they want to help the needy people in the situation. There are so many sections like a family section where we supposed to book that camp for the families. If someone is suffering from any kind of problem or people who need medical treatment for them there are also a separate apartment provided. Another which is

the most important thing is food there is a proper management, where they will get a food from this kind of things which can give relief to these people from that situation like we cannot stop the natural disaster but yes of course we can do this type of things to make them comfortable or to reduce their stress because at the situation there don't only face physical problems but also the lost their mental ability this reduces their mental strength. So look at this all kind of points we get the motivation for we can say we get an idea that what we can do for these people so here we have we have made a camp a flood relief camp in which we are putting our eyes on a thing that is donation thus to do anything we need money.

## PICTORIAL REPRESENTATION



## CONTRIBUTION

ABHINAV RANA

Roll no: 2

Contribution:

- Payment GUI
- Camp GUI
- Analysis
- Database for camp and payment module

ANSHIKA

Roll no: 42

Contribution:

- Front page GUI
- Adding data set
- Use case diagram
- Data flow diagram
- Final report

AKASH RAY

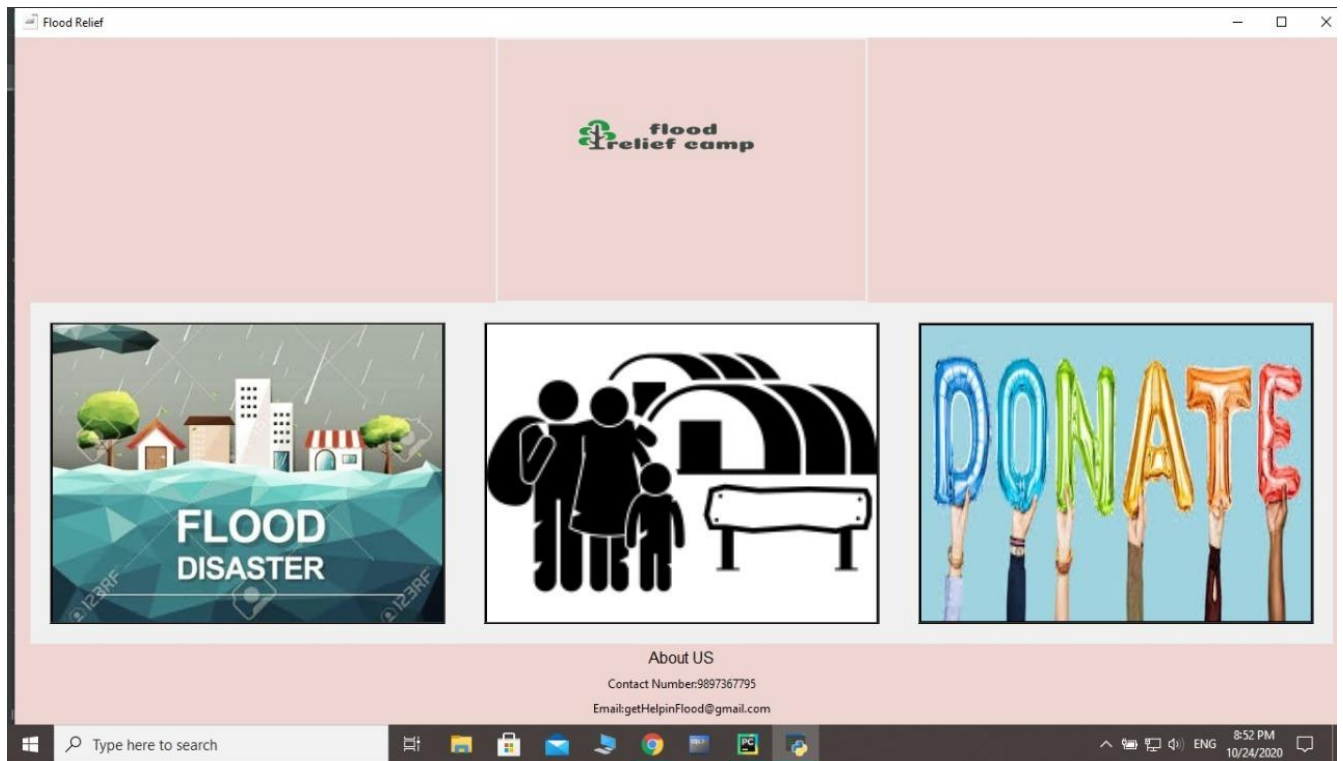
Roll no:44

Contribution:

- Death and missing person
- Data collection
- Database for death module



## SCREENSHOTS OF DESIGNED WEB PAGES



This is our front page. In this we used button, grid, label, canvas (for image), in this we have used images as button skin, for images we have used image TK function.

These 3 button signifies 3 different functions

1. **FLOOD DISASTER:** For information of dead and alive person. All the data related to no of Deaths and alive person is in this flood disaster.
2. **CAMP INFORMATION:** All the details related to the people staying in the camp. All the Valid information of a person is mentioned here.
3. **DONATION:** This donate symbol shows that all the donation related data is kept here. We Use this function to take payment and show name of donor in decreasing order Of amount they donate.

Death Information

# Death Information Portal

FULL NAME

ADDRESS

PHONE NUMBER

ADHAR CARD NUMBER

DATE OF BIRTH

BIRTH MARK

DEATH PLACE

DATE OF DEATH

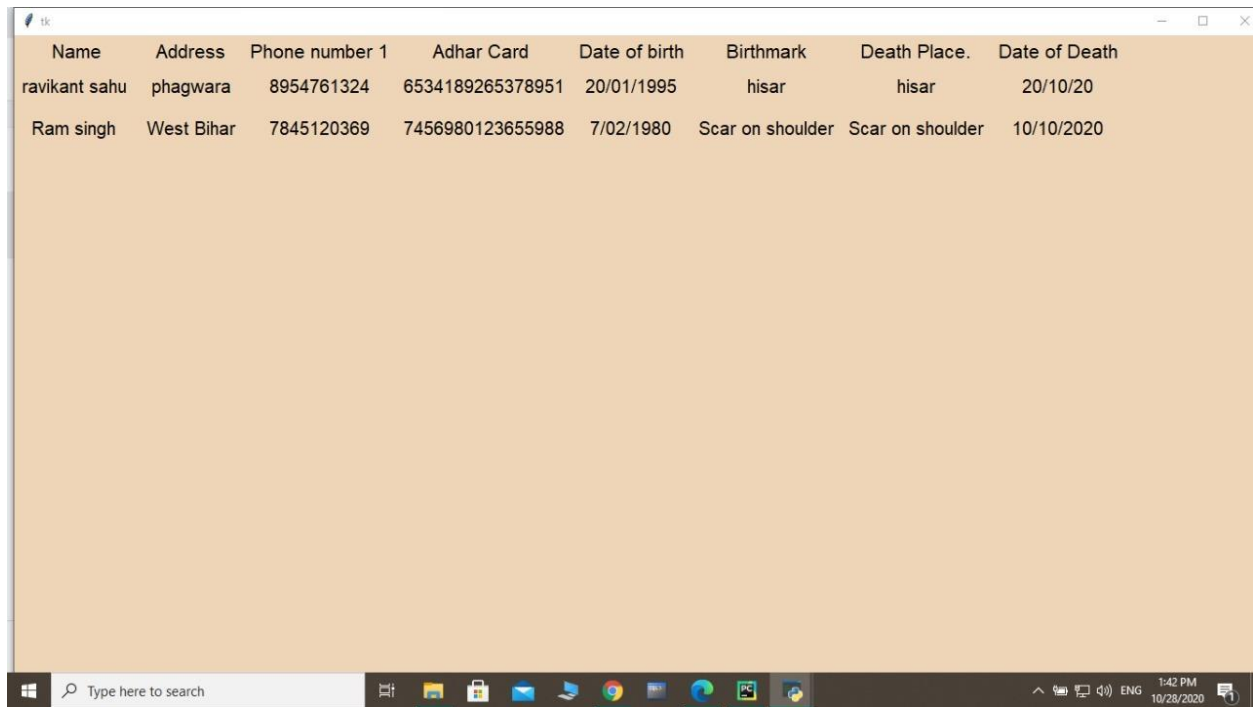
ENTER SHOW DATA

close window

Type here to search

1:42 PM 10/28/2020 ENG

This is our death portal system. In this we have all the basic information of a dead person like name, mobile number, location of death, date of death and other. Here we have added few options like if we want to add some data of new that we can add by clicking on “add button” which is given on the bottom of this page and other if we want to update more information or to do some changes we can click on the “update” button which is also the bottom and third one is delete if you want to delete a data of any person from this page we can do so using to “delete” button and if you want to clear this we can clear by using “clear” button. On the other side there are some options available like if we want to search about some person we can directly put his or her information on the search by option. Moreover if you want to show all data we can do it by clicking on “show all”. By this we can find number of persons with their name and basic information on the page.



Name	Address	Phone number 1	Adhar Card	Date of birth	Birthmark	Death Place.	Date of Death
ravikant sahu	phagwara	8954761324	6534189265378951	20/01/1995	hisar	hisar	20/10/20
Ram singh	West Bihar	7845120369	7456980123655988	7/02/1980	Scar on shoulder	Scar on shoulder	10/10/2020

Data base of death information portal.

Camp Information Portal

NAME

ADDRESS  CORRESPONDING ADDRESS

PHONE NUMBER  ADDITIONAL PHONE NUMBER

ADHAR CARD NUMBER

DATE OF BIRTH

BLOOD GROUP

BIRTH MARK

MEDICAL CONDITION

CAMP NUMBER

DATE OF ARRIVAL

ENTER

SHOW DATA

This is our camp information portal to take input data of person who is staying in camp with all of his general information and medical health information. More over in this we have used entry widget to take input database which you can access through show data button. Label button also used in it. In this we can see all the basic information of the person is given. This page basically shows that we have proper data of each person staying in camp with all his background information.

Name	Address	Phone number 1	Adhar Card	Date of birth	Blood Group	Birthmark	Medical	Camp Info.	Date of Arriva
Rahul	Main Market,Hyderabad	8574690123	8745012369025489	12/1/1990	O+	Scar on Forehead	Minor Headache	C-77	10/10/2020
Kamal Kumar	Kerla	8754012395	9855746250125574	9/03/2000	A+	Scar On neck	Good	C-51	10/10/2020
Anubhav Kapoor	Kerla	8574012369	9012554302578925	12/12/1990	O-	Mole,Right cheek	Cold	C-50	10/10/2020
Raj Kumar	Bihar	7451023569	5701203259458452	7/01/1970	AB+	Black patch hand	Injuries in right hand	C-11	1/10/2020
Abhishek Kumar	Assam	8745901236	7012547890123540	12/02/1989	O-	Red scar on forehead	Fracture in hand	C-11	1/10/2020
Anuj Kumar	Jharkhand	9574028432	1720054996320258	8/02/1998	B+	Mole on wrist	High Feaver	C-18	10/10/2020
Vijay Singh	Hugli basin	8456790123	4700245896520268	4/10/2020	O-	Red Patch Forearm	Mild Feaver	C-20	1/09/2020
Sanjay Rathi	Kosi valley	8410267849	7896401459982546	11/02/1981	AB+	Scar Chin	Fracture On wrist	C-81	15/10/2020
Sakshi Singh	Damodar valley	7458962549	7481254962048562	8/9/1999	B+	Scar on neck	Good	F-12	8/10/2020
Ajeay	Mahanadi basin	7410258963	7458123695214580	7/02/1992	A-	Red patch neck	Mild cold	C-15	19/10/2020
Karan Singh	Hugli basin	8877592145	7458960123658956	8/02/1990	AB+	Mole on forehead	Good	C-11	20/10/2020
Mohit Kumar	Orissa	8547963215	2015478436950215	9/9/1997	B+	Mole in chin	Cold,Cough	C-55	20/10/2020
Ramesh Pal	Brahmaputra and Barak valleys	7785496952	9854757484126593	5/5/1995	A+	Scar in eye	Leg Fracture	C-54	19/10/2020

This is a initial database for camp information for this database we have use sqlite3 for storing data in table and label for displaying data in proper format. Because data stored by sqlite3 table is in tuple form so we have to use label to display it in good manner. In this page we have mentioned all the names of the people who are staying in this camp having basic information like address, phone number, date of birth. This page shows that we have all the valid information about the people. If we want any data of any person we can easily check in this page. This page basically for the comfort of personal if you want to look at the data of number of people living here.

DONATION PAGE

# GREAT OPPORTUNITIES TO HELP OTHER, STEP OUT AND DONATE HERE!

**Pay Online**

NOTE:WE ONLY ACCEPT ONLINE DONATION

☐ Credit Card

☒ Debit Card

CARD NUMBER

Expiry date

CVV

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## BASIC INFORMATION

NAME

ADDRESS

Email

Contact No.

Amount

Type here to search

9:37 PM 10/23/2020

This is a donation module and in this module we have used radio button. in this first we take information of a person's credit and debit card then we take this basic information to show at a database which you can access through clicking on show data button. Here we have given all the necessary information that the payment mode is only online mode here we do not accept offline donation and after that there are two options of doing payment one is through credit card second is through debit card there is a choice if a person want to make a payment from any of them they can choose one of them. Moving forward it will ask you for the basic information of your card and then after taking all the information regarding payment it will ask you for the basic information of the person who is making payment about him and his background information. After all that there is to button donate and see data after clicking on donate button donation will be completed and he or she can see his or her data by clicking on the button "see data".

Name	Address	Contact Number	Email	Amount(In Rs)
Abhinav Rana	Roorkee	9897367795	Abhinavrana131@gmail.com	10000
Aakash	Ranchi	9874563210	aakashverma@gmail.com	3000
Anshika	Ambala	9874257410	anshika22@gmail.com	1000
Akash Ray	Gorakhpur	8574961230	akashraygg111@gmail.com	900
Abhimanu Singh	Jaipur	7412589630	Abhimanu Singh	800
Avinas	Suratgarh	8854796852	avinas@gmail.com	499
Akansha	Mumbai	7745896321	akansha144@gmail.com	150
Dhreej	Raipur	9658741320	dhreej125@gmail.com	120
Abhishek	Haridwar	9897365595	abhishek12@gmail.com	100
Priya	Jammu	8574961230	priyasharma12@gmail.com	100
Akshay	Manali	8574691023	akashaysingh@gmail.com	50

In this page for payment database we have used same sqlite3 for storing information and used label to display data in proper manner. The interesting thing about this page that all the donations is in descending order. Like donation with higher amount is kept in top of the page and donation with lower amount kept on bottom of the page.

## TECHNOLOGIES AND FRAME WORK

In our whole software we have used plenty of function provided by TKINTER and SQLITE3 to make this presentable.

Some are list below:

IMAGE TK = Image TK module contains support to create and modify TKINTER Bitmap image

Photo image

FRAME = It is used to organize the group of widgets.it acts like a container which can be  
Used to hold other widgets.

CANVAS = This module is used to add the structured graphics. Moreover used to make shapes  
And plot to the python

LABEL = This is used to display a text in a single font and display text in single font.

BUTTON = This is used for display text on images that convey the purpose of button.

BG = This is used for background color of the button.

FG = This is used for foreground color for button and label.

PADX = This is used for putting space between the button widgets and between the close  
Button widgets and right border of root window.

PADY = This is used for putting space between the button widgets and the borders of the  
Frame and borders of root window.

IPADX AND IPADY = This is used for how many pixels to pad widget, horizontally and  
Vertically inside widget's border.

FONT = This used to provide the font class for creating and using named fonts.

COMMAND = This to link function with a button.

GRID = This is used to put the widgets in a 2-dimentional table.

PACK = This is geometry manager packs widget in row or columns.



Some of SQLITE3 function used are:

CONNECT () = This is used for pass the argument and to create a cursor object using the  
Connection object.

CURSOR () = This is used to invoke methods that execute SQLITE statements and fetch data  
From the result sets of queries.

EXECUTE () = This is used to execute multiple SQL statement with one call.

COMMIT () = This is used for transactional command used to save changes invoked by a  
Transaction to the database.

CLOSE () = This is used to close the connection.

FETCHALL () = This is used to read all the records into memory and then returns that list.

## SWOT ANALYSIS IN PROJECT

### STRENGTH:

- Various method used
- Easy to apply
- Availability of resources
- Schemes for dealing with aspects of flood
- Dead person details
- Proper arrangement of hospitals

### WEAKNESS:

- Primary focus on disaster response and relief
- Failure to give primary warning
- Time lag in mobilizing resources

### OPPORTUNITIES:

- Building of strong connections
- Easy way of helping other with online donation
- Good management system
- Active in organizing relief distribution

### THREATS:

- Investment in long term benefits of disaster risk reduction is overshadowed by opportunity costs of short term projects with immediate gains.
- Ongoing trends of unsafe development are creating risk at a pace faster than risk reduction efforts.

## **REFERENCE**

TKINTER: <https://docs.python.org/3/library/tkinter.html>

SQLite 3: <https://docs.python.org/3/library/sqlite3.html>

PROJECT GITHUB LINK: <https://github.com/Avon11/INT-213-FloodRelief-Project>