# FITNESS CALCULATOR

Mini Project Report submitted in partial fulfilment of the requirements for the Degree of

# **BACHELOR OF TECHNOLOGY**

in

COMPUTER SCIENCE AND ENGINEERING

By

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Under the guidance of



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Lovely Professional University Phagwara, Punjab (India) **NOV 2018** 

## **ACKNOWLEDGMENT**

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## **DECLARATION**

#### 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 sources 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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#### **1.1 TITLE**

To design a Graphical User Interface (GUI) for Fitness Calculator of a person using Python.

#### 1.2 OBJECTIVE OF THE PROJECT

The main objective of the project is to calculate the fitness of a person by calculating his/her fitness in terms of body weight, height, blood pressure is low or high, pulse rate, RBC count, WBC count, Platelets, HB, uric acid, cholesterol etc.

#### 1.2.1 MODULES AND INTERFACE OF THE PROJECT

In this project, there are several modules for GUI and Database which is being performed by the project group members. Main GUI window interface for the input of the person details like body weight, height, cholesterol etc. Another GUI window which generates the fitness report of the person. Also, there is a separate module for the database, which permanently stores the fitness report of the person for future references.

The methodologies that are used in the projects are:

- ✓ GUI FRAME
- ✓ LABEL
- ✓ ENTRY
- ✓ RADIOBUTTONS
- ✓ FILE HANDLING
- ✓ DATABASE

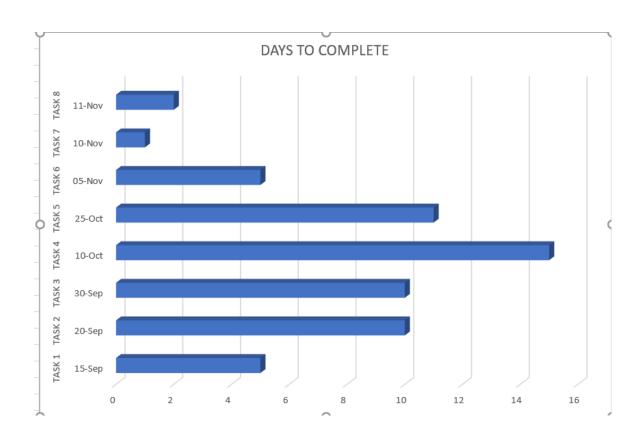


Figure 2.1 Gantt Chart

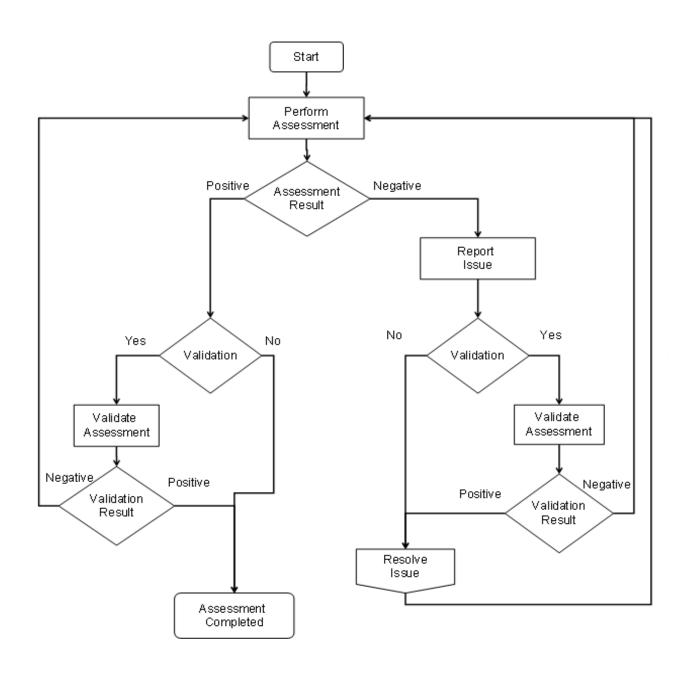


Figure 2.2 Flow Chart

## **GUI (GRAPHICAL USER INTERFACE)**

In this project we have used 'Tkinter' which is the easiest among all to get started with. It is Python's standard GUI package. It is the most commonly used toolkit for GUI Programming in Python. Tkinter provides widgets like Button, frame, level, entry, radio buttons, checkbox, menu, scrollbar etc.

#### **PYTHON FILE HANDLING**

File handling is an important part of any web application. Python has several functions for creating, reading, updating, and deleting files. Python treats file differently as text or binary and this is important. Each line of code includes a sequence of characters and they form text file. Each line of a file is terminated with a special character, called the EOL or End of Line characters like comma {,} or newline character.

### **PYTHON DATABASE**

Python can be used in database applications. We can connect our python programs to the database to insert, update, delete, create the data and work on it. The cursor class allows python code to execute command in database session. Cursors are created by the connection.cursor () method, they are bound to the connection for the entire lifetime and all the commands are executed in the context of the database session wrapped by the connection.

# CHAPTER 4 WORK DIVISION

#### 1. MUKESH KUMAR SAH

- **❖** GUI
- ❖ DIFFERENT MODULES AND WINDOWS OF GUI
- ❖ OVERALL CALCULATIONS FOR FITNESS CALCULATOR

#### 2. MANAS PANDEY

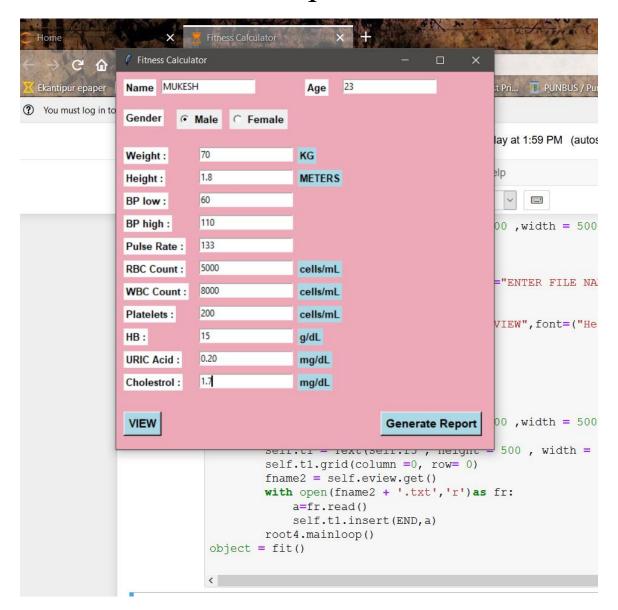
- **❖** DATABASE
- **❖ PROJECT INTERFACE DESIGN**

#### 3. AKULA SRUJAN RAJ

**❖ INFORMATION OF FITNESS DATA AND DESIGN** 

## SCREENSHOT OF ALL THE WINDOWS

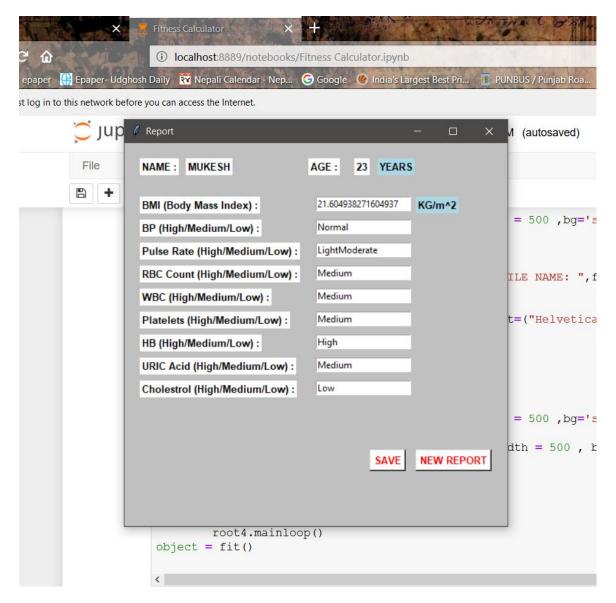
1<sup>ST</sup>



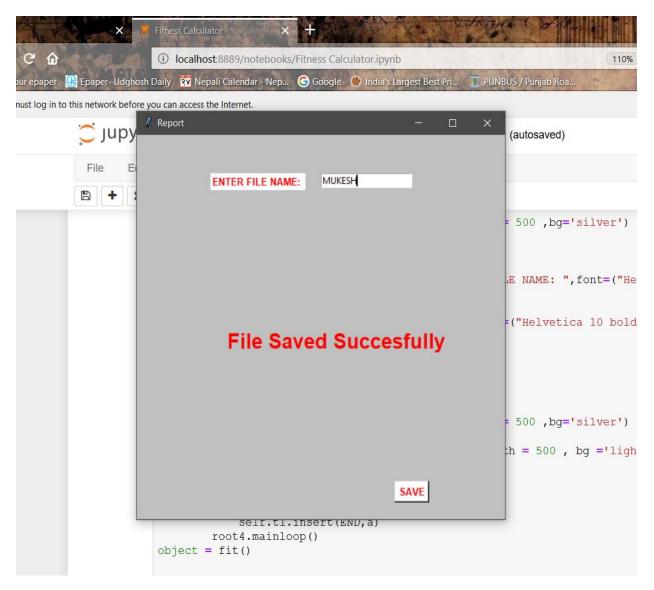
This is the main windows of the project i.e., "FITNESS

CALCULATOR". Here we insert the fitness values of the person to generate the report.

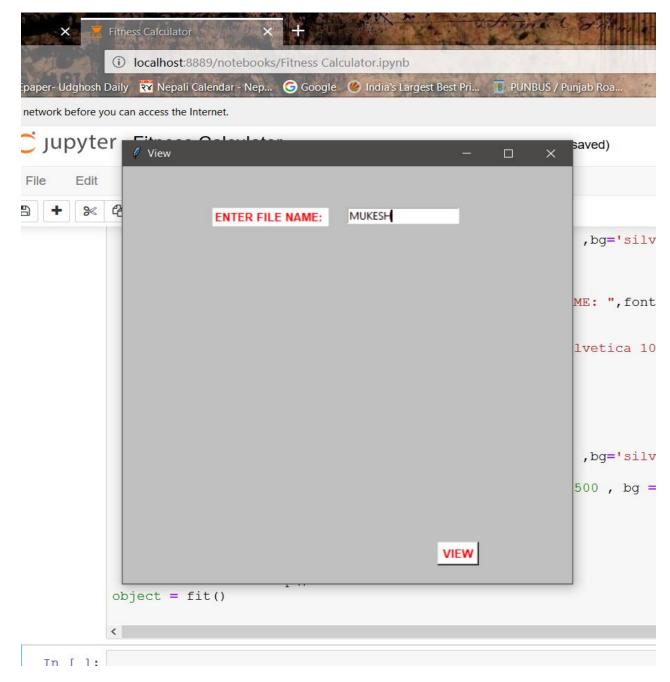
 $2^{ND}$ 



After inserting the fitness values of the person, we press the 'Generate Report' button and this second window shows the fitness of a person.

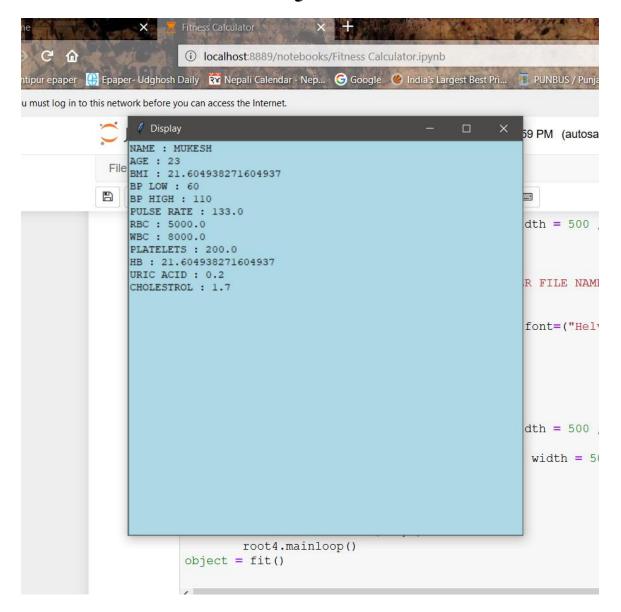


After the report is generated, we have the option to save the report or to create the new report. After pressing the save button, this window is opened to save the generated report as desired name.



In the 1<sup>st</sup> window, we have the option or button to view the generated report. When the user enters the name of the saved file name, then saved report is opened as 5<sup>th</sup> window.

**5**<sup>TH</sup>



This is the windows of the generated report, when the user manually wants to open the particular users report, then the user has to enter the saved file name and the report is opened.

# **REFERNCES**