**:PROJECT TITLE:**

**HOSPITAL DATA BASE MANAGEMENT**

**LAB BATCH**-262

**TA**: ALEX POOVATHINGAL

**TEAM MEMBERS**:

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**PROBLEM STATEMENT**

This project is about hospital database management which provides an easy interface between the patient and doctor.

Here the patient can enter his symptoms and find a doctor accordingly. Also the doctor can view the profile of the patient and enter his prescription in it.

**FUNCTIONALITIES**

1. Here the new patient who accesses the site has a facility to create a user id, which he may use for further communication with the hospital

2. The patients enter the symptoms that he is facing and the patient can find a doctor according to the symptoms specified by him/her.

3. Also the patient can see the time of his appointment.

4. Moreover, the doctors can view the patients who are waiting for him and also view and edit their profile.

5. Hence the patient can easily see the prescription that is suggested to him by the doctor

6. This project only deals with the OPD cases and not with IPD ones.

**HOW WILL USER INTERACT**

**(USER MANUAL)**

The users get a window compelling him/her to enter UID if he has been a past visitor of the hospital. Otherwise, if the patient is a newcomer he will be directed to create a new ID.

Once the user ID is known he is redirected to enter it in the home window and check for a doctor and take appointment by entering his symptoms.

Once an appointment is made, the patient will be intimated his appointment time after which he is supposed to meet the doctor.

**BRIEF DESCRIPTION OF ALL WINDOWS**

1. First window (name- we care) - the first window is the hospital’s first page where there are buttons to enter the UID and to create the UID.

2. Second window(name-symptoms)- Here a combination of some common symptoms are predefined from which the user can choose his symptoms.

3. Third window (doctor specified)-Here according to the symptoms specified by the patient he is assigned a specialist and also an appointment time after which he may consult the doctor.

4. Name of the patient is displayed in the file of the doctor and he can view the entire profile of the patient and suggest his prescriptions.

5. The patient can view the prescriptions as well.

**FUTURE SCOPE (and our Expectations)-an initial thought**

In future the project can be used to manage the database of a group of hospitals instead of a single one also the account management of the hospital can be taken into consideration and the salary of each doctor, the fees for the patients and also the annual turnover of the entire hospital.

Further the project can be implemented for IPD also.

Hence, it can be a good way to manage entire system of the hospital.

**MEMBER FUNCTIONS and Folders USED:-**

Programme has been divided into two parts, one which handles the patient information or the database and the other part is from hospital point of view, wherein the user who is either the patient or the doctor can log in and perform certain operations.

**PART 1:- PATIENT DATABASE**

readb() – alternative function for gets. It reads a particular line using fgets() upto a defined buffer length so that memory overlap doesn’t occur. It also places ‘\0’ in place of ‘\n’ in order to make it equivalent to gets.

getcount() – It gives the counts stored in data.txt

read() – uses fgets() to read a line from a file.

save() –using fprintf to write data into a file.

inccount() – increases count stored in the data.txt

display()- displays entire patient profile.

patient\_registration() – It helps a patient to register as a new comer.

openingr() – opens a patient profile for reading purpose.

openingw()- opens a patient profile for writing purpose.

**PART 2:- HOSPITAL POINT OF VIEW:-**

int ApiMain() – Performs the graphics operations.

MouseClickEvent() – Responses to the various mouse click events used in the code.

get\_appt()-used to get an appointment from a particular doctor when logged in as an user.

doc\_rec\_read()-used to read the doctors and receptionist names and IDs from a given file.

Doc\_pres()-used to write the current medical report of the patient.

home\_page()-creates the basic or the first page of the hospital and gives two option to the user. One is to log in as a doctor/patient and perform certain operations and the other is to create an account.

**FOLDER DISCRIPTION**-

The patient folder has been named “p” .

This patient folder has been divided to “m” and “f” indicating the gender of the patient .

Then the folders named “a”----“z” are contained in both “m” and “f” which indicate the first character of the name of the patient. In these folders the patient profile is stored in a .txt file and are named as “001” and so on.

The doctor files named as “d001” to “d009” are stored in the same folder in which the main program is stored.

**THE MAIN PROGRAM FILE**

The main program file is ***opdtry.cpp***

***and the program requires EzWindows.***