

DATABASE PROJECT ON HEALTH CARE MANAGEMENT SYSTEM

“SHUSHRUT”



SUBMITTED TO:

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Acknowledgement

We would like to express our sincere gratitude to Assistant Professor Dr. Rakesh Mohanty for giving us the opportunity to carry out the database project, and for guiding us and motivating us through this wonderful journey. We would also like to thank our parents, who stood like a pillar behind us through the ups and downs we faced during this period, for providing us assistance whenever needed, regardless of the hours on the clock. We feel privileged to be blessed with such comforting hands around us, which are, but, available only to a privileged few in this world.

Introduction

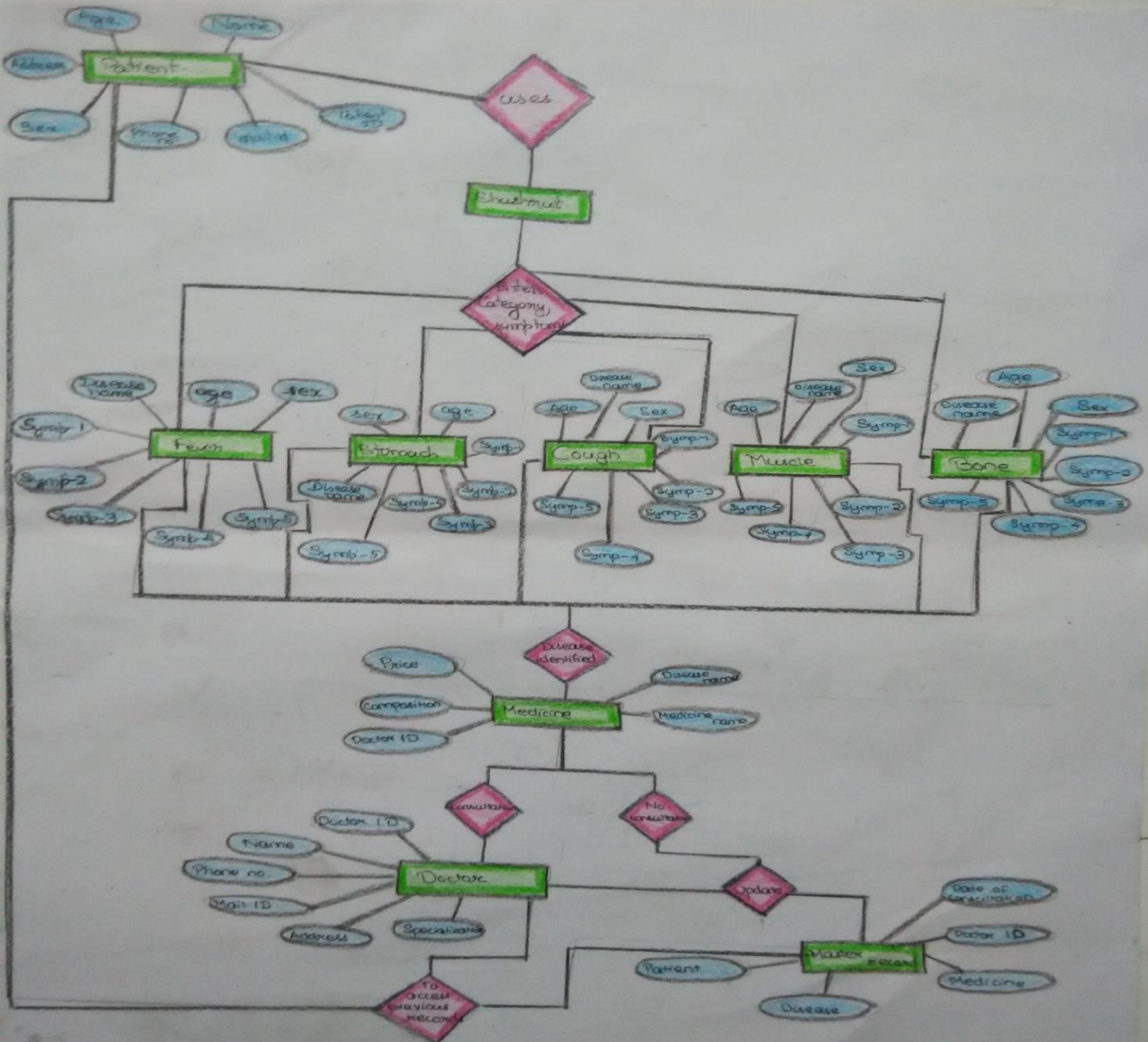
Shushrut is a multi-purpose application, which aims at providing the best health care facilities to its users, free of cost. It is an attempt to integrate 3 widely different, but equally important areas of health care, namely:

- Automation in identification of a patient's disease, without consulting a doctor directly.
- Providing proper medication for a particular disease (Allopathic, Herbal, Homeopathic, Traditional and home-made remedies)
- Providing proper details of doctors to be consulted, for cross-consultation and for situations needing immediate attention.

The application is a humble attempt to make the best utilization of the present day health care system, through uniform systemization, proper grouping of the details and making available the data to the general public for free.

Shushrut has a wider vision to be implemented in all spheres of life, amongst all groups of people, especially the poor and people living in far-away and the cut-off regions, who do not have access to proper health care facilities.

Shushrut is a minuscular attempt, considering the vast range and diversity of problems faced by the humans. But it surely is an honest endeavor to make the world a better place.



Features of Shushrut

- Auto-Disease Predictor based on symptoms of the patient.
- Prescribed medicines that should be taken for the identified disease, .but always offers the names of doctors to be consulted.
- Contains details of doctors for further consultation in light of the predicted disease, for guidance, for alternative medication and if needed, for cross-examination regarding the predicted disease by Shushrut.
- Instantaneous free Message sending facility to doctors by patients, informing the corresponding doctor about the details of the patient, disease predicted by Shushrut, and requesting him for a slot for consultation.
- Maintains a master database regarding the details of patients, the doctors consulted, medicines prescribed, to be used by both patient and the doctor for reference.
- Rating system that allows patients to rate doctors based on their accessibility, approachability and the quality of service provided.

Future Endeavors for Shushrut

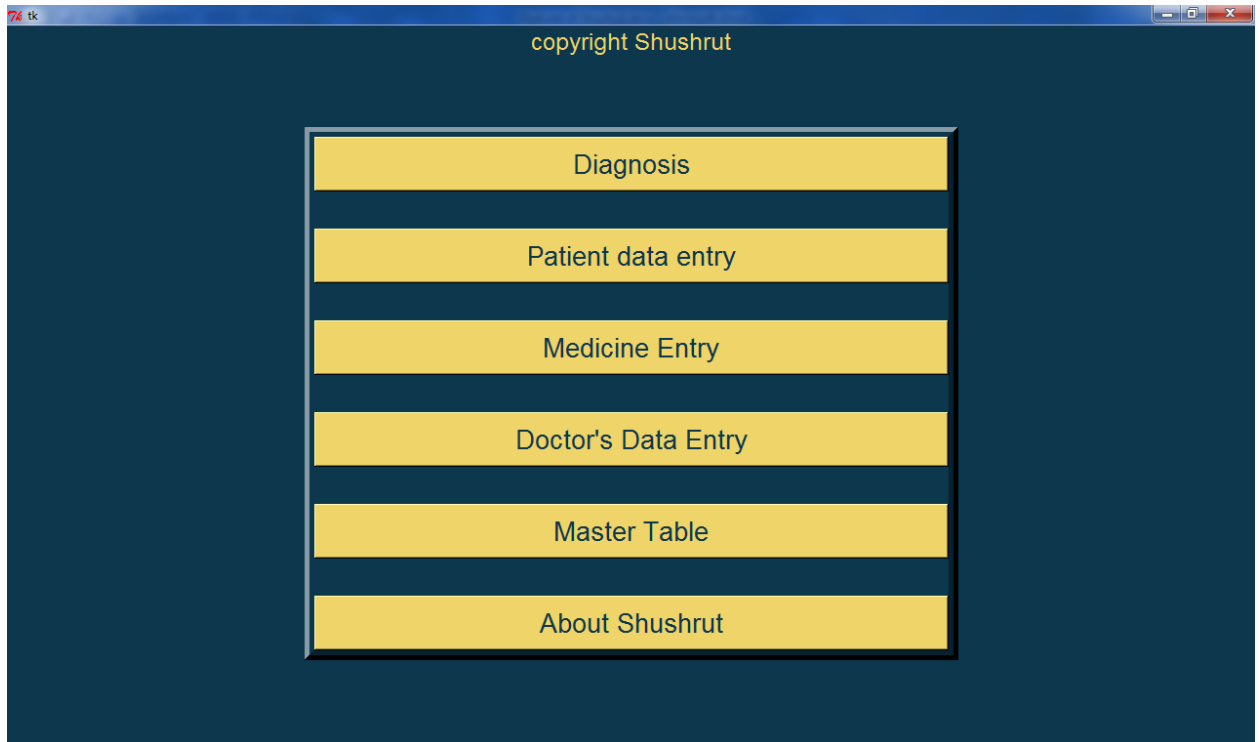
As Shushrut is a social project, with a long term goal of being integrated into society, it must get updated regularly with new features to serve its users with the best of services.

In the near future,

- Shushrut will go online, giving it access to a large base of users.
- Shushrut will be equipped with video conferencing facilities, making it more user-friendly for patients, as well as the doctors, enabling health care services to be provided on the fly.
- The database regarding doctors, medicines, diseases would be expanded, to cover more diseases and provide better facilities.
- Phone Numbers and addresses of Pathology labs can be added to the project so that prior appointment can be fixed to have a hassle-free consultation.
- Features of booking transportation facilities, like calling 108 for ambulance, online cab booking systems like the OLA cabs would be added to the application, so as to get rid of problems of arranging emergency transportation.

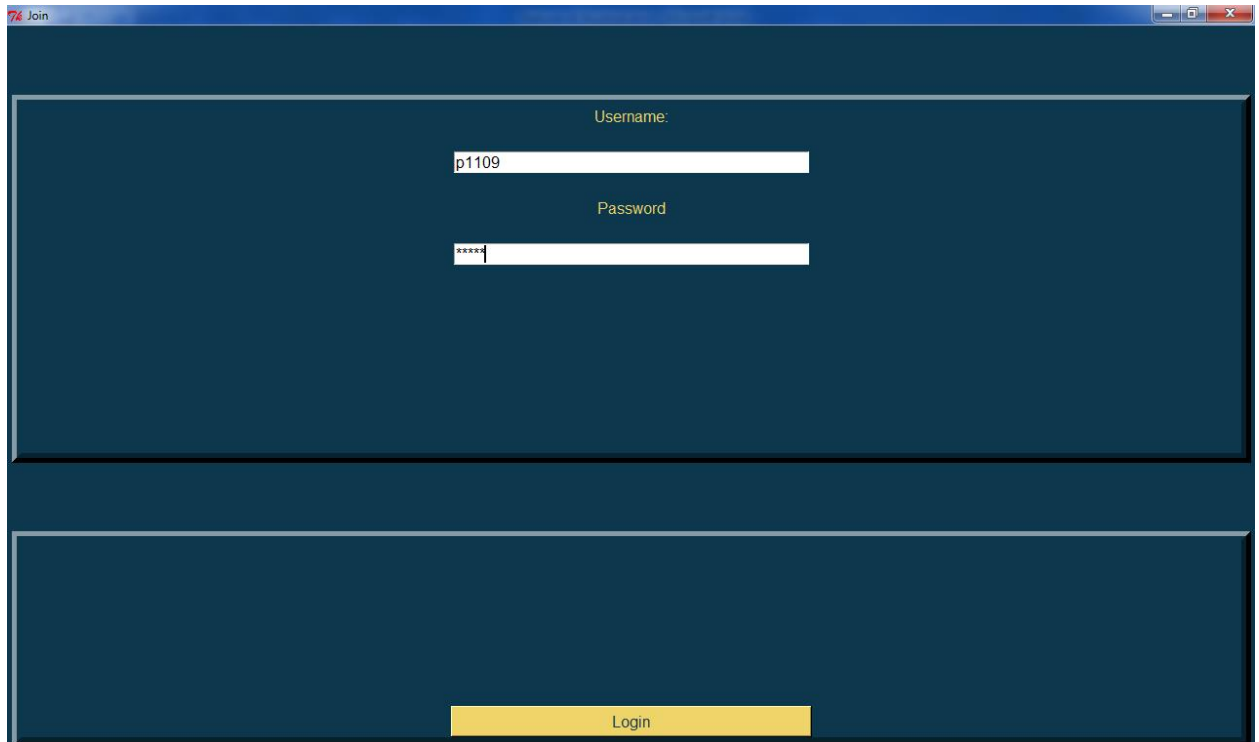
Various modules of Shushrut

- i. Main Interface: It provides the patient various options like diagnosis of disease, sign up option for new patient and doctors, and access to master table, etc.



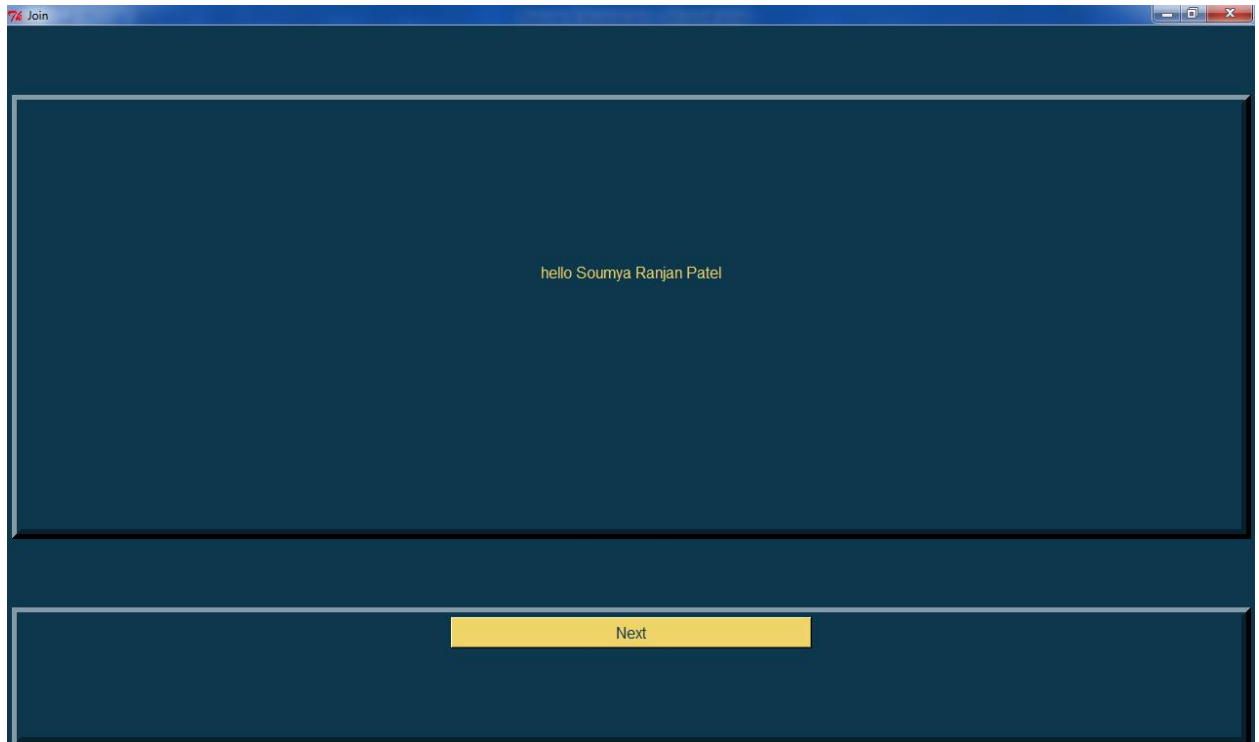
2. Diagnosis:

- (i) Login interface: Lets the patient to sign in to his account.



The image shows a screenshot of a login interface within a window titled "Join". The window has a dark blue background. In the center, there are two input fields. The first field is labeled "Username:" and contains the text "p1109". The second field is labeled "Password" and contains six asterisks "*****". Below these fields, there is a yellow button labeled "Login". The window also features standard Windows-style window controls (minimize, maximize, close) in the top right corner.

(ii) Welcome Interface:



(iii) Problem Category Interface: It lets the user select the category of problems he faces.



- (iv) Symptoms Interface: It lets the user select his symptoms from series of suggested symptoms.

Join

How are you feeling?

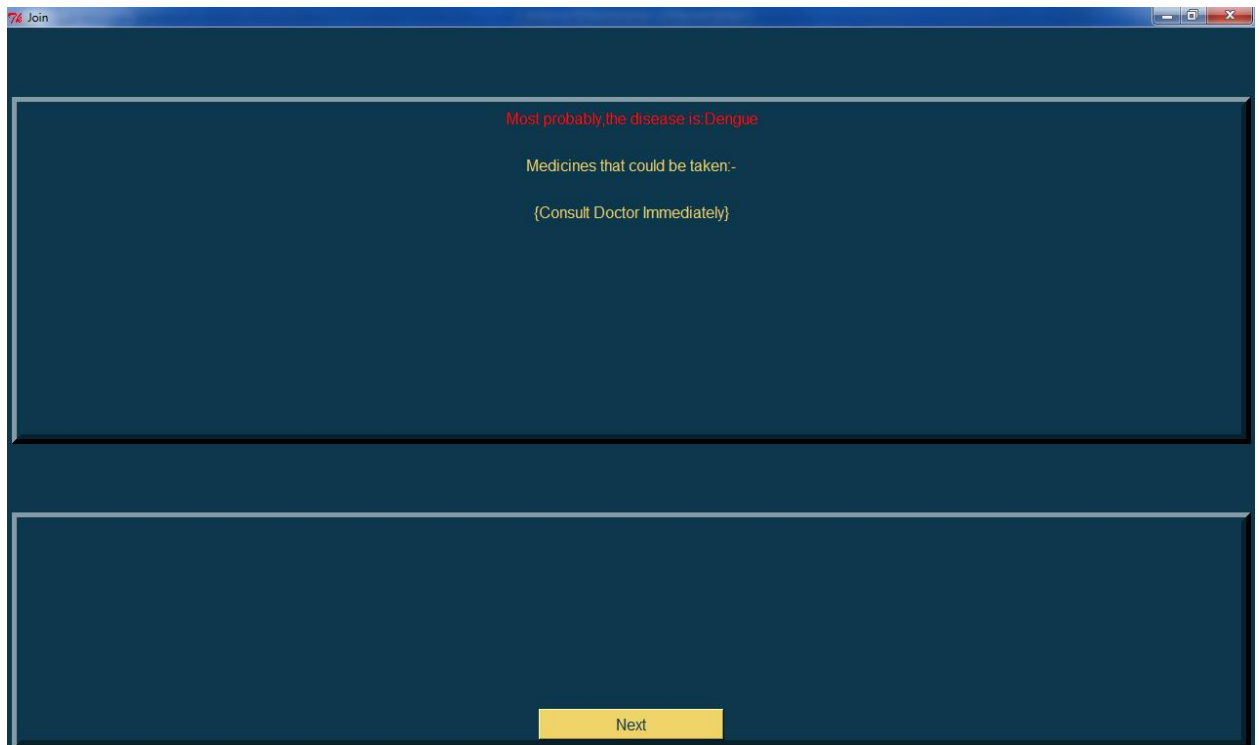
High fever+Severe pain behind eyes

Fever

None

Back

(v) Interface for identified disease: The probable disease is displayed.



- (vi) Consult Interface: It provides the user the details of doctor to consult to and to send a free text message if needed.

The image displays two screenshots of a software window titled "Join".

The top screenshot shows a "Please Consult:" section with a list of doctor details:

- name=Dr.Kashinath Padhiary
- phone_no=9437034477
- mail_id=TO BE UPDATED
- address=TO BE UPDATED
- specialization=General medicine
- doctor_id=D100
- name=Dr.Laxmikanta Das
- phone_no=9437016195
- mail_id=TO BE UPDATED

Below this list, there is a yellow button labeled "message" and another yellow button labeled "Ok".

The bottom screenshot shows a list of doctor names in yellow boxes:

- Dr.Kashinath Padhiary
- Dr.Laxmikanta Das
- Dr.Manoj Kumar Mahapatra

3. New signup for patient interface:

Please enter your data

Name:

Age:

Sex:

Phone No:

Mail ID:

Patient ID:

Enter

4. New signup for doctor's interface:

Name:

Phoneno:

Mail ID:

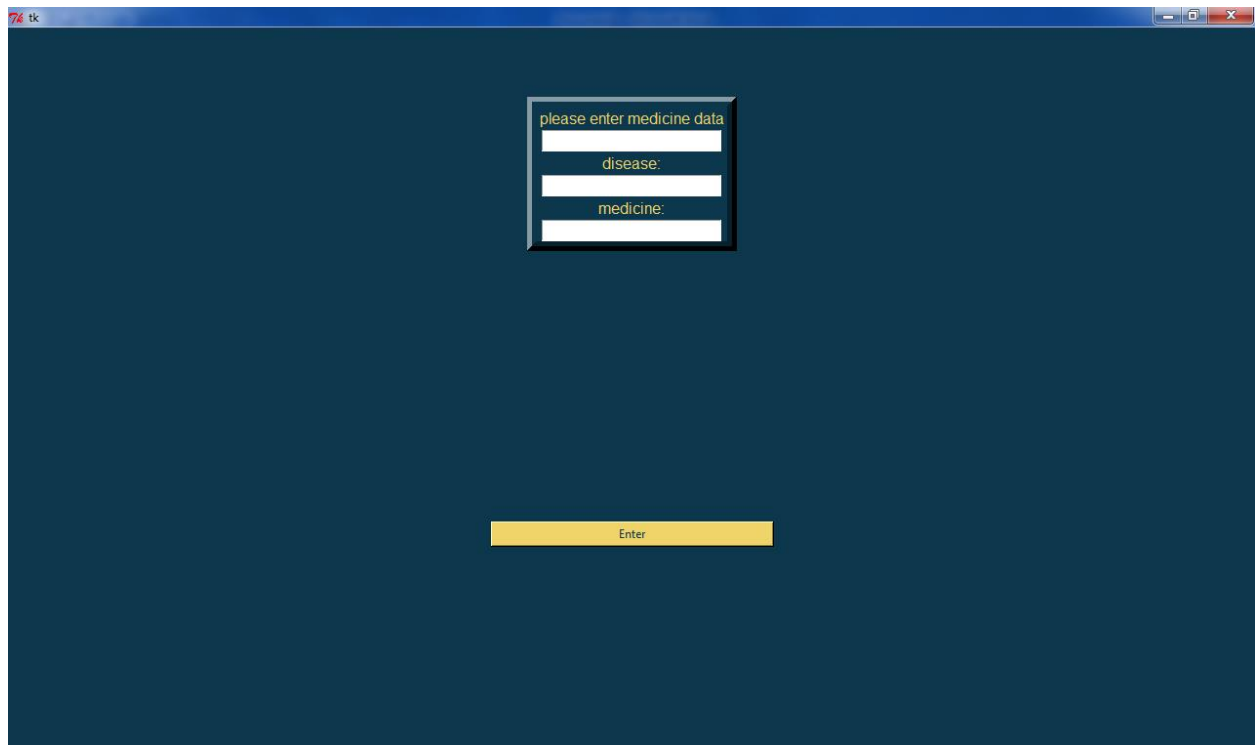
Address:

Specialization:

Doctor ID:

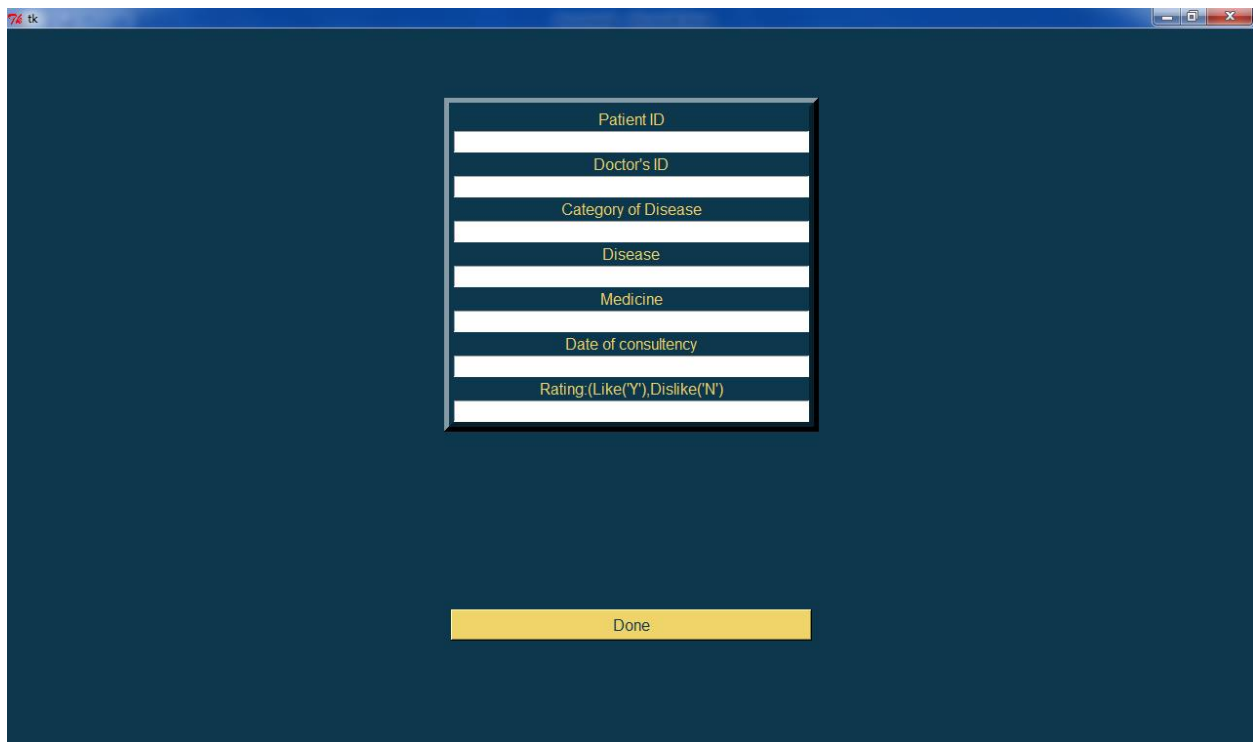
enter

5. Medicines data entry interface:



A screenshot of a Tkinter window titled 'tk' with a dark blue background. In the center, there is a white rectangular box with a black border containing the text 'please enter medicine data' in yellow. Below this text are two white input fields: the first is labeled 'disease:' and the second is labeled 'medicine:'. At the bottom center of the window is a yellow button with the text 'Enter' in black.

6. Master table interface:



A screenshot of a Tkinter window titled 'tk' with a dark blue background. In the center, there is a white rectangular box with a black border containing a table with 8 rows and 1 column. The table headers are in yellow text, and the input fields are white. At the bottom center of the window is a yellow button with the text 'Done' in black.

Patient ID
<input type="text"/>
Doctor's ID
<input type="text"/>
Category of Disease
<input type="text"/>
Disease
<input type="text"/>
Medicine
<input type="text"/>
Date of consultancy
<input type="text"/>
Rating:(Like('Y'),Dislike('N'))
<input type="text"/>

