

HOSPITAL MANAGEMENT SYSTEM

Made by:

Yanvi Soni(18BCP130)-Group Leader

Trisha Baldha(18BCP118)

Swara Jani(18BCP113)

CE-18

Abstract:

The Hospital Management System is a project created in Java language with GUI implementation for better user interaction. It is an element of the medical informatics solutions and focuses mainly on the administration of the hospitals. It basically runs on the idea that the admin handles all the records in this. It is highly confidential as it contains all the personal information of doctors and patients. It also contains all the necessary information about the medicines and other facilities offered by the hospital.

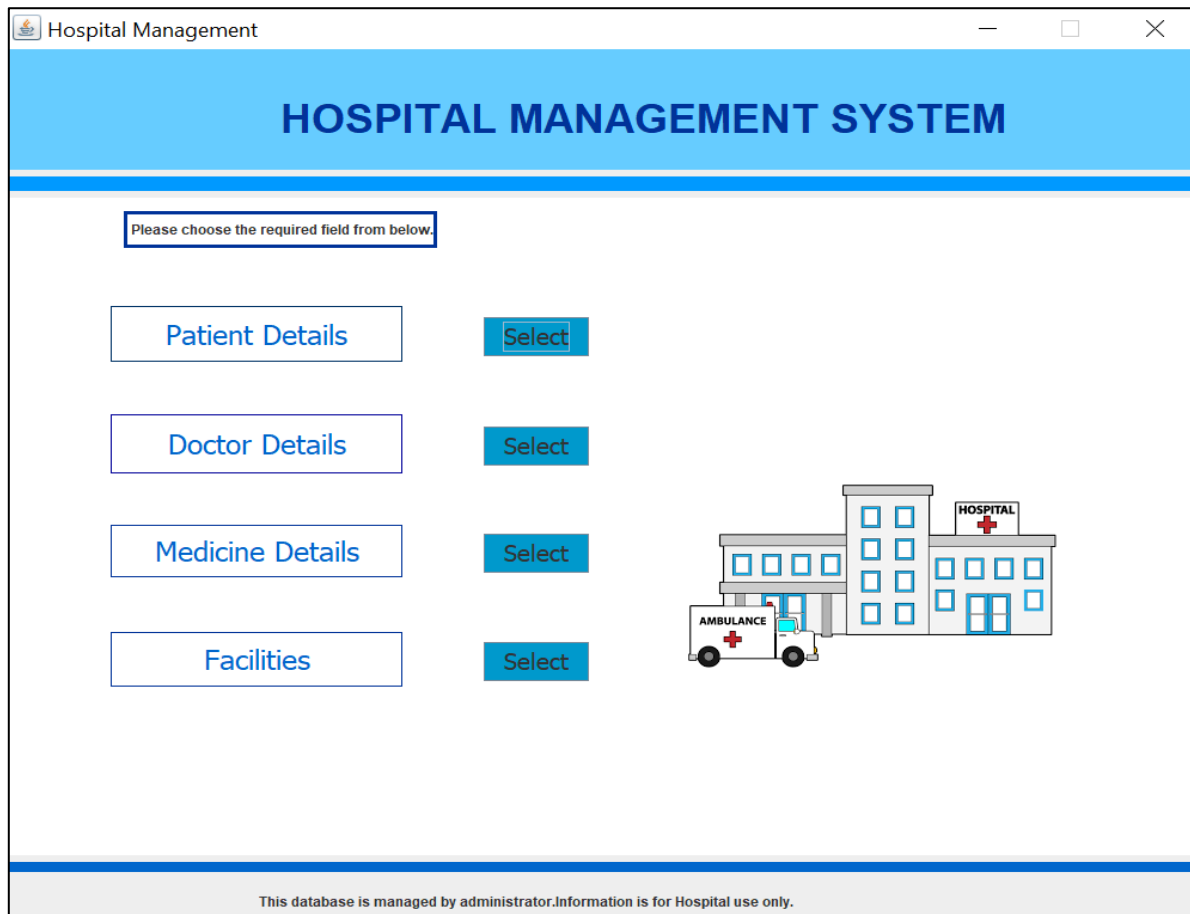
Modules of Hospital Management System:

- i. Patients
- ii. Doctors
- iii. Medicines
- iv. Facilities

NOTE: In order to run the project, please extract all the files from the ZIP into the folder and then only run it. The main file is Hospital Management system, so run that to see the whole project.

Implementation:

1st Frame:



As soon as the project starts to run, Hospital Management System is the first frame that opens up. It is basically a type of menu that contains the list of inner frames (4). It is the main menu that remains open despite of visiting the other frames. It is the parent frame. Then you can press the 'Select' button adjacent to the frame you want to visit. It will take you to that frame but this will still remain open unless you actually close it manually by clicking on the cross icon.

2nd Frame:

The screenshot shows a window titled "Patient Details" with a blue header bar. Below the header, there are two main sections: "Insert Patient Details" on the left and "View Patient Details" on the right. Each section contains a "Photo" placeholder, a "Patient Id" field (with "autogenerated" in the insert section and "enter Patient id" in the view section), a "Name" field, a "Contact No." field, an "Age" field, a "Gender" field (with a hint "male, female or other"), a "Doctor Consulted" field, a "Status" field with radio buttons for "Active" and "Admitted", and a "Type" field. At the bottom of each section are buttons labeled "Insert Details" and "View Details" respectively. Below these sections is a "Total Patients" label and a text input field. At the very bottom, there is a "Back" button and a footer message: "Confidential Information not to be shared."

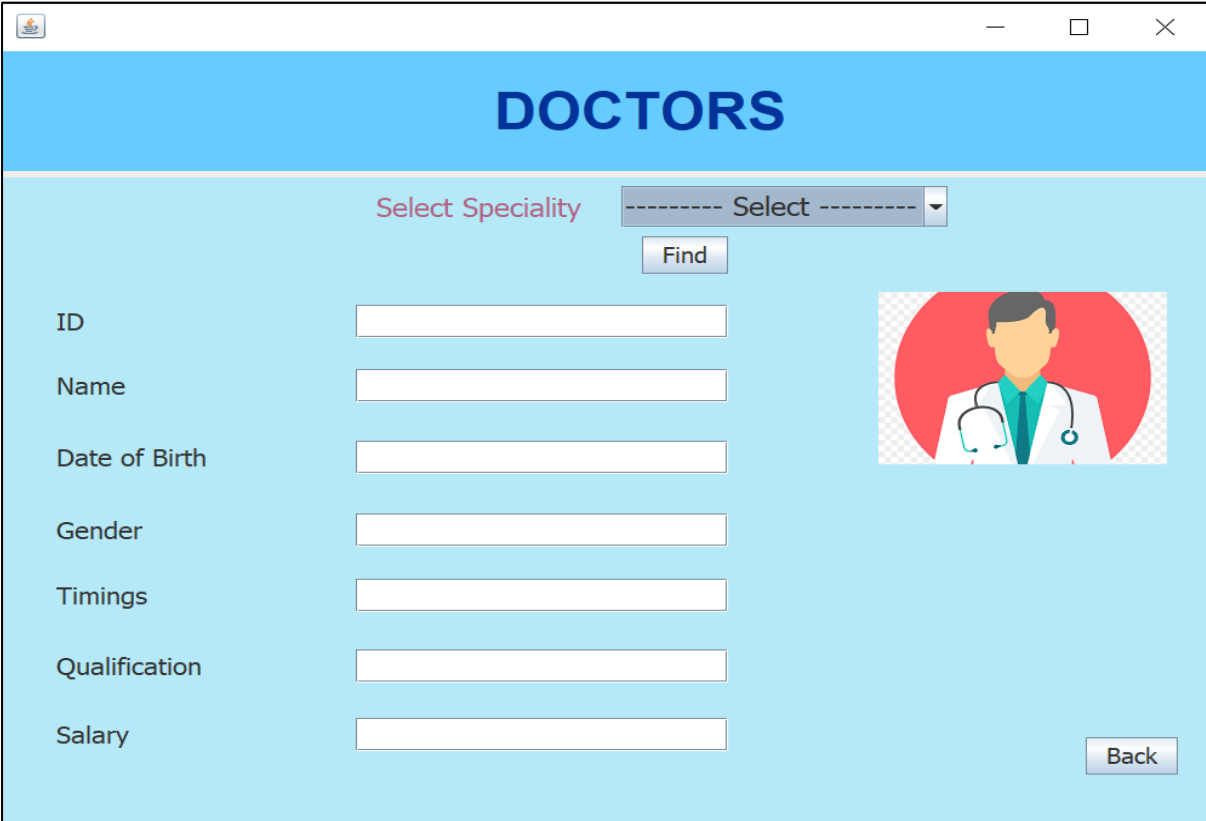
When this frame opens, there are two options, i.e. you can insert the details of a new patient on left-hand side, and also you can view the details of a patient by entering his patient-id on the right-hand side.

When you enter the age and contact number in insert section, there will be a need to enter only integers (Exception Handling concept). Otherwise, a message will be displayed on the screen like this:

The screenshot shows a close-up of the "Insert Patient Details" section. The "Contact No." field contains the letter "a" and has an error message "Enter integers only." below it. The "Age" field contains "uu" and also has an error message "Enter integers only." below it. The "Gender" field contains "female".

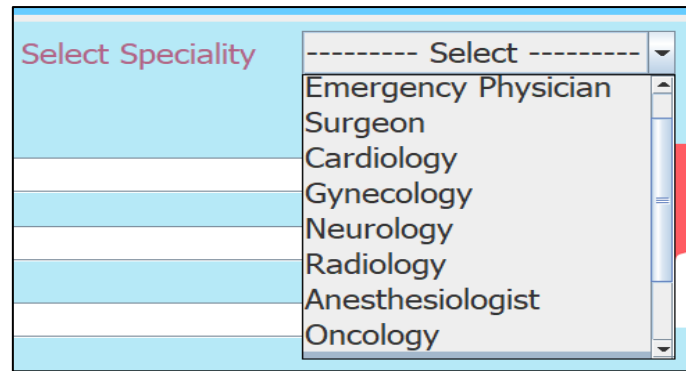
Also, at the bottom, if we click on the ‘Total Patients’ button, the total number of patients till date will be displayed. Then in order to close the frame, we can either press the ‘Back’ button on the bottom or click on the cross icon for closing.

3rd Frame:



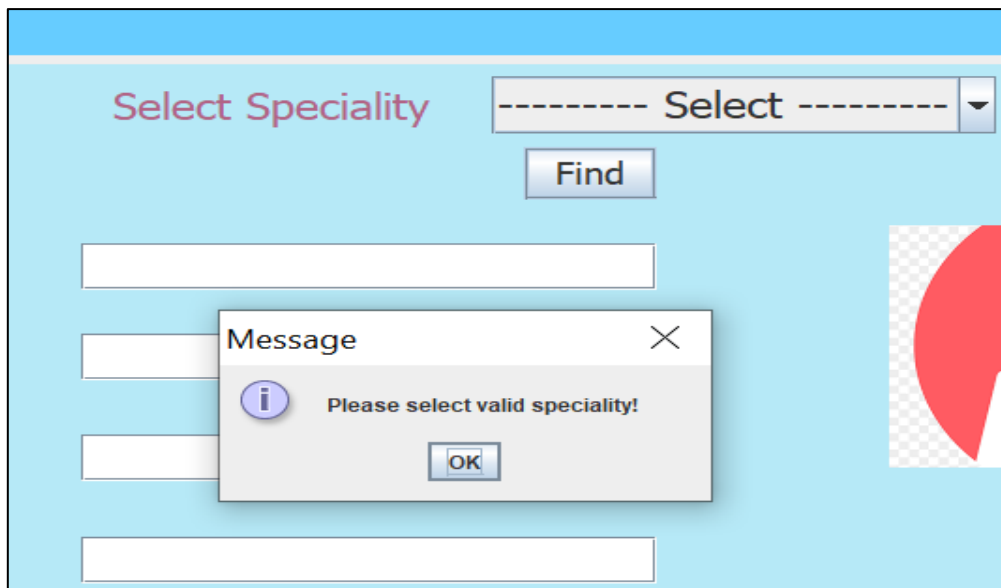
The screenshot shows a web application window titled "DOCTORS". The interface is light blue. At the top, there's a dark blue header with the word "DOCTORS" in white. Below the header, on the left, there's a "Select Speciality" label in red. To its right is a dropdown menu with "Select" as the current option. Below the dropdown is a "Find" button. To the left of the dropdown, there are seven input fields for "ID", "Name", "Date of Birth", "Gender", "Timings", "Qualification", and "Salary". To the right of these fields is a placeholder image of a doctor. At the bottom right, there is a "Back" button.

This is the frame titled Doctors. It gives the details of the doctor of the particular specialty that you want to know. The combo box has 12 options in total (11 types of doctors and 1 is the ‘Select’ option, i.e. when you don’t select any specialty) like this:




On clicking upon any of these types and then pressing the 'Find' button, the details of that particular type of doctor will be displayed in the text fields that were previously empty.

However, if you simply press the find button without selecting any specialty, then a popup will be displayed:



Then similarly, in order to close the frame, we can either press the 'Back' button on the bottom or click on the cross icon for closing.

4th Frame:



The screenshot shows a window titled "MEDICINES" with a light blue header. Below the header, there is a search section with the label "Medicine:" in green, a text input field, and a "Search" button. Below this, there are four input fields with labels in red: "Company", "Used for", "Availability", and "Cost". A "Back" button is located in the bottom right corner.

This frame is titled as Medicines. It displays the details of medicine name that we type in the text field after pressing the 'Search' button.

But, if we enter a medicine name that is not in stock, then upon pressing the 'Search' button, a message will be displayed like this:



The screenshot shows the same "MEDICINES" window. The "Medicine:" label is in green, and the text input field contains "Aspirin". The "Search" button is visible. Below the search section, the message "Not in Stock!!" is displayed in bold black text. Below this message, there are two input fields, with the label "Company" in red next to the first one.

Then again, for closing this particular frame, we can either press the 'Back' button on the bottom or click on the cross icon for closing.

5th Frame:

The screenshot shows a web application window titled "Hospital Facilities". The main content area is titled "FACILITIES" in a blue header. Below this, there are three main sections:

- PATIENT STATUS** (green background):
 - Total Patients:
 - Active Patients:
 - Admitted Patients:
- SPECIALITIES** (light blue background):
 - Doctors of different Specialities:
 - View:
- ROOM AVAILABILITY** (light blue background):
 - Total Capacity:
 - Current Vacancy:

Below the Patient Status section is an illustration of a hospital room with a bed, monitor, and door. At the bottom left is a "Back" button. At the bottom right, there is a footer with the text "Information for office use." and "Last updated on : 21-05-2020".

This is the Frame which displays the facilities in the hospital. Upon clicking the various buttons, the required information will be displayed in the text fields adjacent to it. And for closing the frame, we can either press the 'Back' button on the bottom or click on the cross icon for closing.