CEJV 569 Desktop App Dev with Java

Assignment #3 **25% of your final grade**

Creating Graphical User Interface

In this last assignment you will create a user interface that supports CRUD (Create, Read, Update and Delete) for the hospital database using the code you wrote in assignment 2. You will accomplish this by creating a panes for each table that allows you to enter a new record, find a record, edit an existing record or delete a record. The user interface will be based on forms. A form consists of fields that match the fields of a record in a table of the database as modeled by the appropriate bean.

The Patient Form

Aside from the form components you will need buttons that allow you to carry out the following operations:

Clear

- Clears all the fields on the form.

Find

- If a number has been entered into the primary key field then that record will be retrieved.

Save

- If the primary key field is left blank then a new record will be created and saved to the database.
- If the primary key is present in the field then the record matching that primary key will be updated.

Next

- If a record has been found from using Find then the next record in the database will be displayed.

Previous

- If a record has been found from using Find then the previous record in the database will be displayed.

Delete

- If a number has been entered into the primary key field then that record will be deleted.

Exit

- End the program.

Report

- Display the total cost for the selected patient. A popup dialog box should be interface you use to display this information.

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Inpatient, ***Surgical*** and ***Medication Forms***

There will also be one button for each of the child records. When selected the form for that record will appear. You will need to keep track of the patient id when using a child record form because all operations on these records must be for the patient record you were viewing when you selected the child.

The child forms will have all the same buttons except for Exit, Report, Inpatient, Surgical and Medication. They will have a Back button to return to the patient record they were looking at when they selected a child display.

On a child form you may only find or delete records based on the primary key that have the current patient id. In other words you can only find or delete records for the current patient.

Feel free to explore alternatives to the buttons such as menus or toolbars.

For the fields in the form use basic validation to ensure that strings are not longer than what the database table will support. Verify that numbers are within the proper range. For child forms you may not allow the user to enter the patient id as it comes from the patient record that led to the child.

Don't be afraid to use CSS to give the forms a distinct look and feel. Make all the panes the same size so that switching from one pane to another does not change the size of the Stage.

The name for your Database should be "***hospitalDB***" and the Username and Password should be "***hospital***".