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CMPT 220

Project 2 Writeup

MyControl Hotel System

Hotels need to be able to easily access customer information. Organization is key when it comes to pleasing a customer. A customer doesn't want to walk into a hotel and have to resubmit their information taking up their precious time. Due to the importance of being able to easily access information I decided to create a Hotel System called MyControl. MyControl keeps data of the customer's name, phone number, email address, the date of arrival, the date of departure, type of room, and type of payment. The system has a login page and after logging in the employee would submit the data and it would appear in a table that keeps track of all the customers information.

In order to make this hotel check-in system I used the database Netbeans version 8.2. To start creating the project, the project had to be under java application which created a panel where the details of the page would be put on. Then I had free range to design what the page would look like. I created a page labeled Login System with Username and Password labels and blank text fields for the employee to enter the username and password to log into the system. There are also three buttons are used to log in to the system, reset the textfields due to incorrect input, and to cancel the page. When creating the page attributes like the jpanel, jtextfield, and

jbuttons were added automatically in the java code for the Login class. In order for the Login button to work when clicked on there needed to be a class that got the text from the username and password textfields. If the username and password entered were ny_cc and 23admin14 the system would login and it would open into the page with the data of all the customer's information. If the username and password were anything else the system wouldn't login and the textfields would reset. In order for the system to reset there needed to be a class that included `jPassword.setText(null)` and `jtxtUsername.setText(null)`. There then needed to be a class that allowed the system to exit when the exit button was clicked on. Also in order for the login page to connect to the customer information page the two had to be linked. This was done by the attributes `CustomerData Info = new CustomerData();` and `Info.setVisible(true);`. By writing this in the login java code the page is connected to the customer information page.

The login class was consisted of a `JPanel`, three labels called `JLabel1` which said Login System, `JLabel2` which said Username, and `JLabel3` which said Password, two textfields called `jtxtUsername` and `jPassword` to input the username and password, and three buttons named `jbtnLogin`, `jbtnReset`, and `jbtnExit`. As well as classes `public Login()` and `public void run()` that allows the system to work. Additionally there are classes called `private void jbtnExitActionPerformed`, `private void jbtnLoginActionPerformed`, `private void jbtnCancelActionPerformed` that allows the buttons to work when being clicked on. There is also a `private void systemExit()` to allow the system to exit.

After the Login Page was created I created a `CustomerData` class in order to create a page that consisted of all of the customer's information. The information that was kept was the customer's name, phone number, email, type of payment, date of arrival, date of departure, and

room. All of this information was inputted by the employee and after clicking the submit button it would be outputted into a table. Just like the Login class I needed a JPanel that allowed me to create the page. On the JPanel was a JLabel to label the page saying Customer Data. There were also JLabels for customer name, phone number, email, type of payment, date of arrival, date of departure, and room. Next to each of these labels were blank textfields for the employee to input the information of each label. There than was a submit button that submitted the written information into a table on the top of the page. An if statement was created to state that if customer name wasn't filled out you wouldn't be able to submit the information and a message would pop up saying to enter the name. Once all information was inputted into the textfields the information would submit into the table. Just like the Login page there are also clear and exit buttons.

The attributes of the CustomerData class are JLabel1-8 for the title of the page which is Customer Data and the 7 descriptions of information the computer saves, so customer name, phone number, email, type of payment, date of arrival, date of departure and room. Additionally, there are 8 blank textfields named jtxtCustomer, jtxtPhone, jtxtEmail, jtxtPayment, jtxtArrival, jtxtDeparture, and jtxtRoom for the information of each of these descriptions. Lastly there is a jTable1 for the information to be organized in to and three buttons named jbtSubmit, jbtClear, and jbtExit. There is a public CustomerData() and public void run() class so that the system can run. As well as private void jbtSubmitActionPerformed, jbtClearActionPerformed, and jbtExitActionPerformed classes that allow the buttons to work when clicked on. Lastly there is a private void systemExit() class for the page to exit.

The purpose of MyControl is to have a space to be able to go to to easily read the customers information instead of an intricate database that would be hard to use. I decided to create a table with all of the information displayed in it because there are hotel systems that have multiple tabs and pages to find out different information of the customer. Instead of going to search and having to click on different tabs all of the information is organized and displayed on one page where everything could be easily found. Additionally, there could be a lot of files and paperwork that include the customer's information, but MyControl takes away the mess of all the paperwork by just having to use a computer to display the data. To use MyControl the employee will first need the proper username and password. The username and password to enter into the system is ny_cc and 23admin14. Without the correct username and password the employee will not be able to login therefore not being able to input or find the customer's data. After entering the webpage will bring you to a blank table and sections underneath it where the data can be entered. After entering the customer's name, phone number, email, type of payment, date of arrival, date of departure, and room the employee can then hit the submit button which submits the customers information into the once blank table. The database then can be exited by clicking the exit button.

I didn't know how to use Netbeans before so I looked up tutorials on youtube on how to create a database and table on netbeans. MyControl is a database that allows hotels to login and submit the customers information into a table to keep it organized and in one spot so it is easier for everyone to find.