Hotel Management Information System

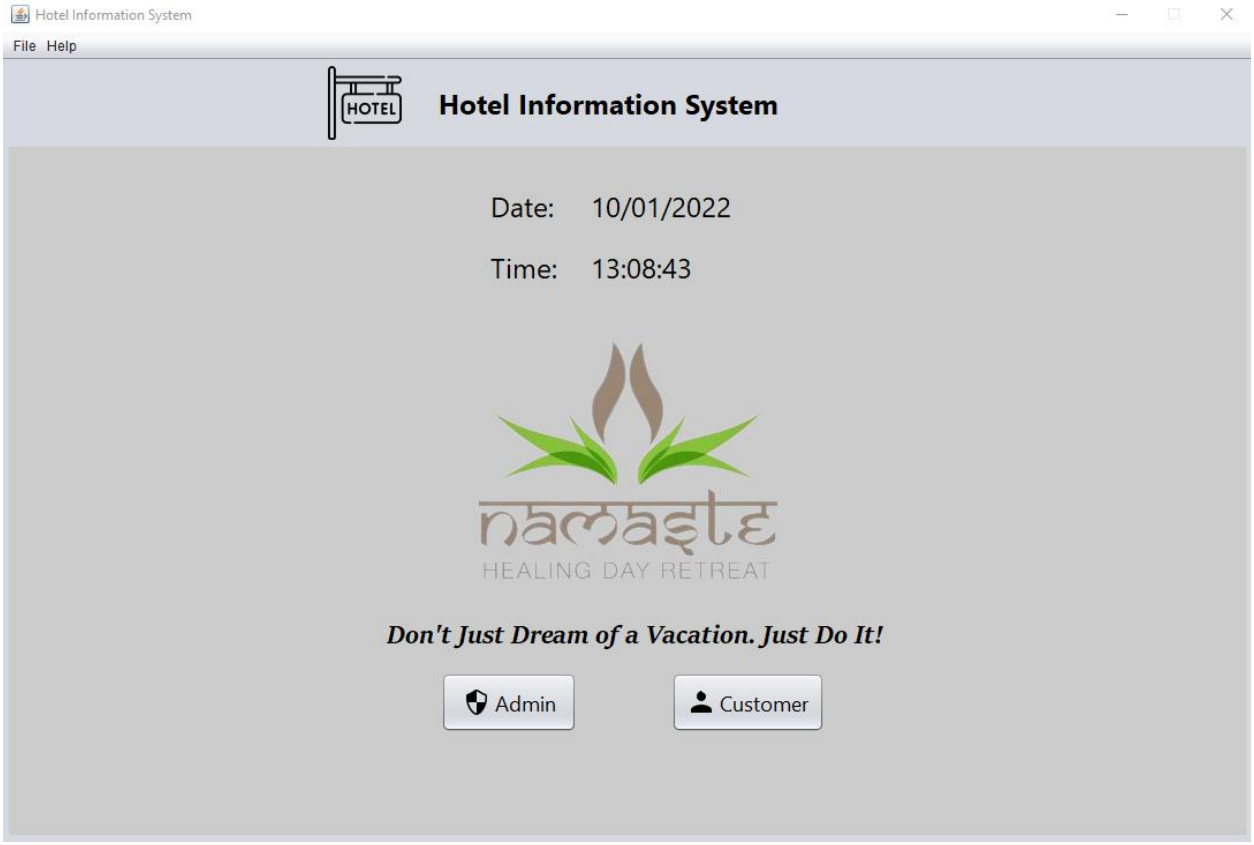
welcome to the hotel management information system support section. The information system was created with the goal of simplicity and efficiency in mind. But, like all the other fantastic programs, we created this with our customers and administrators in mind, in order to eliminate any issues or complications with the system's features and characteristics. The pages have been divided into sections based on the system's features.

Contents:

- User Selection
- Customer Panel Section
- Admin Panel Section
    - Record Modification
- Table Section
- Importing and Exporting Records

- **User Selection**

The user selection section UI of the system is the main panel of our GUI where the user can choose between admins and customers. If the user chooses customer, they will be sent to the customer panel; if the user chooses admin, they will be required to enter appropriate passwords in order to gain access to the admin panel. The login password and username both being admin.



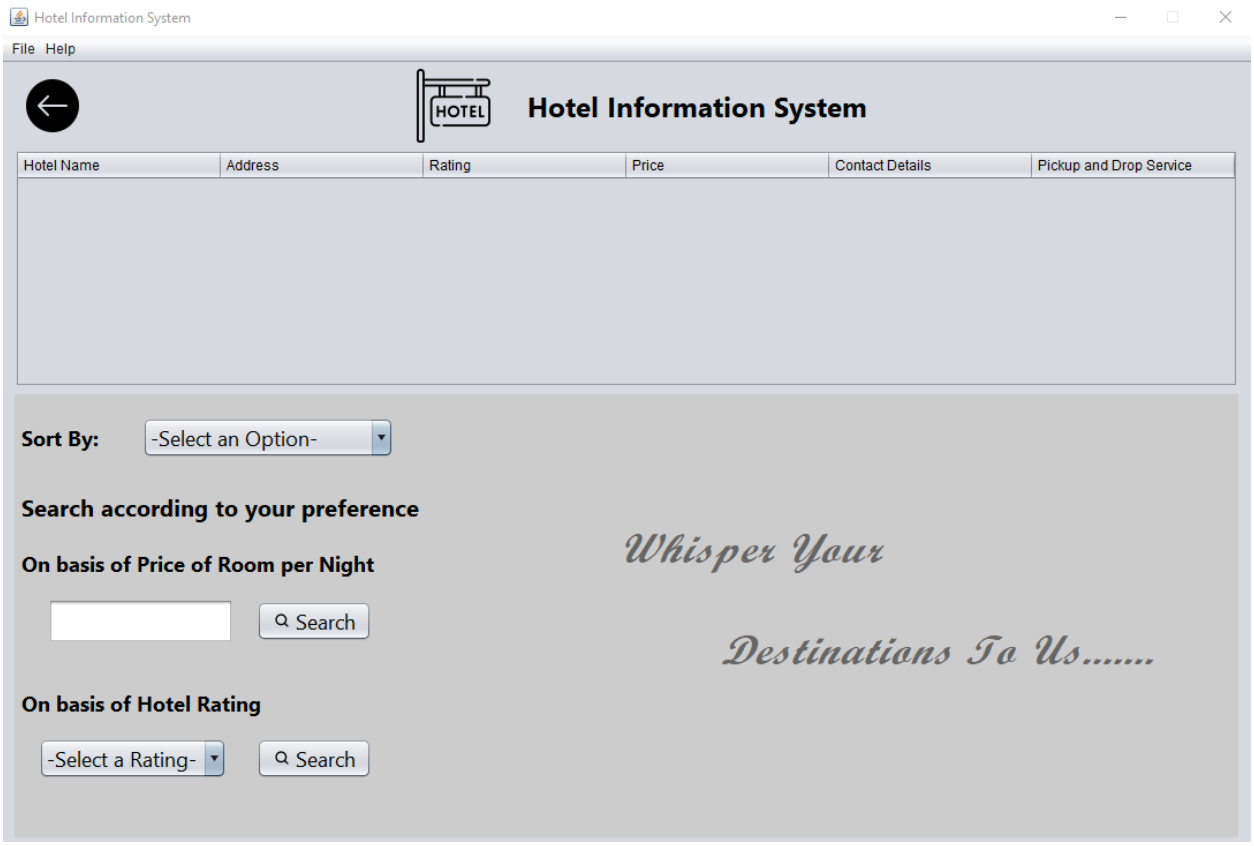
The UI consists of two buttons with similar function.

- Customer: The button will direct the user to the customer panel.
- Admins: The button will direct the user to a dialog box where the user has to insert proper password to get access to the admin panel.

- **Customer Panel Section**

After the user selects the customer button, they are directed to the customer panel, where a message dialog appears saying “Open the CSV file to get the data in the table.” Hence, the customer must import the file by clicking on Import file option or Ctrl+O. They will then, enter the data and information that is to be searched. The customer panel section consists of one input field, two buttons and two combo boxes.

Customer Panel Section UI of the information system is shown below:



The above UI consist of one input text fields and two interactive buttons. The user can enter the information into the text field as required.

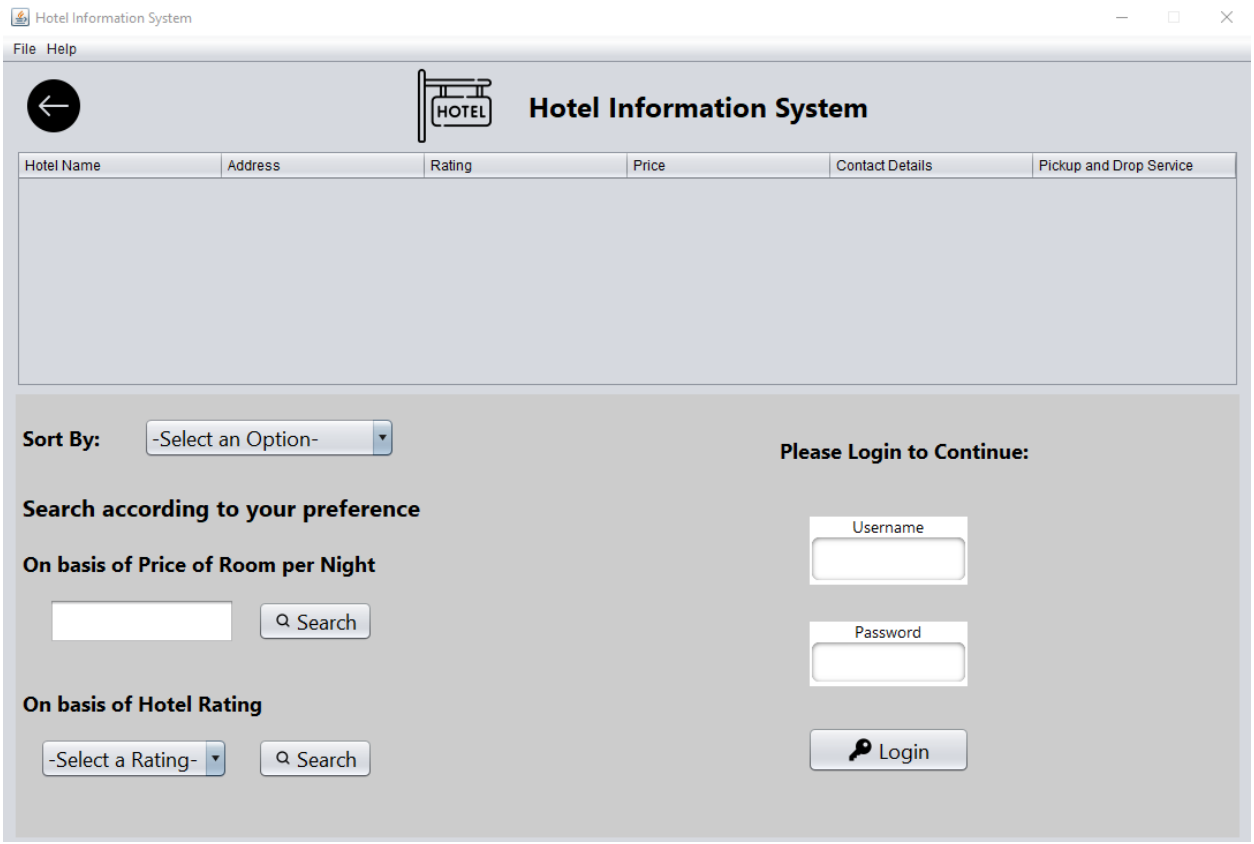
- The price per night is numeric field i.e., it will only take integer values and no string value can be used in the text field.
- Customer can search the hotels based on the entered price range by pressing the search button.
- The user can sort by ascending or descending order based on hotel name with the help of sort by button.
- The user can search all the hotels in the particular selected category by pressing the search button.

- **Admin Panel Section**

After the user selection if the user selects the admin button, they are shown a dialog box where they are to insert proper password for the access to the admin panel after the proper is inserted the user is directed to the admin panel section where there are 7 text fields, 7 buttons and 2 radio button that are placed inside a radio button group.

When the admin logs in the admin panel a message dialog is shown saying “Open the CSV file to avoid data duplication.” Hence, the admin needs to load the CSV file before modifying the table.

Admin Panel Selection UI of the information system is shown below:



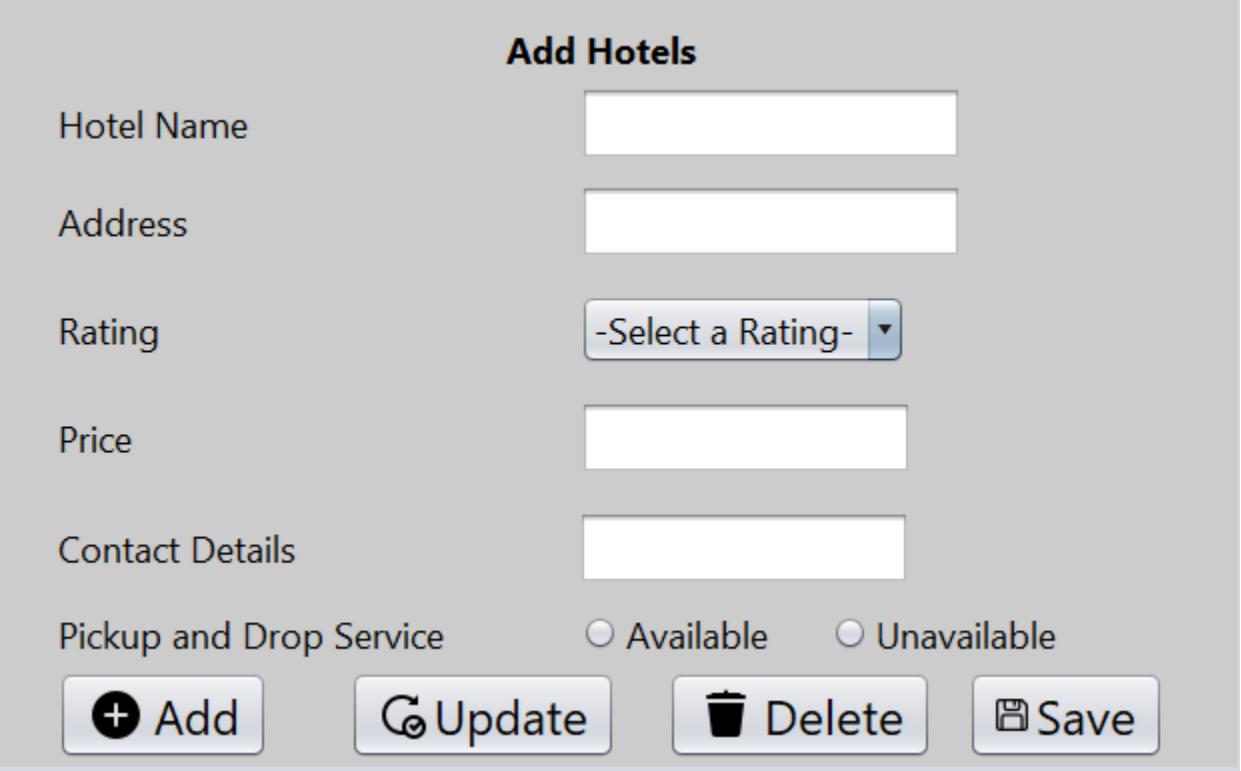
This UI consist of 9 different text field of which 4 text field are admin text field whereas rest of them can also be found in the customer panel. Three interactive buttons along with two radio buttons can also be found in the UI

- The price per night is numeric field i.e., it will only take integer values and no string value can be used in the text field.
- Admin can search the hotels based on the entered price range by pressing the search button.
- The user can sort by ascending or descending order based on hotel name with the help of sort button.
- The user can find the available hotels in the particular rating category by using search hotel by rating button.
- ‘Hotel name’ and ‘address’ text field take String as their value but they can take integer as well.
- ‘Price’ and ‘Contact Details’ both text field only take integer values in their text field.
- Two radio button available and unavailable show the availability of pick and drop service.

- **Record Modification**

The record modification is the feature of admin panel it can only be access in admin with the help of these UI user can add, delete, update, or save the contents in the information system. Admin has the ability to delete the information that is no longer required for the system user can also update the information row that is outdated. The modified records can be saved in the system.

UI for above function is shown below:



The UI consists of four different functions. The user can use these four buttons to carry out task related to them.

- To add records to the database, first we fill the text field and select buttons properly in the admin panel and then click ‘Add’ button. The system will add the records in the database.
- To delete an information record from the database, first select the concern row from the database and then click ‘Delete’ button. A dialog box will pop up asking for confirmation if the user really wants to delete the record after the confirmation the system will delete the record and notifies the user about the deletion.
- To update an information record from the database, first we select the concerned row from the database and then press on the ‘Update’ button. Doing so the system will take the information in the record from the database and puts it in the admin UI to be edited.
- To save the modified or new information record in database, we click on the ‘Save’ button which will save the modified or added records in the database.

- **Table Section**

The table component of the UI displays all the database system's records. This section displays all the data entered into the 'Hotel Management Information System.' After clicking the 'Add' button, the data entered are presented in the table section. The rows of information in the table can be selected for deletion or modification.

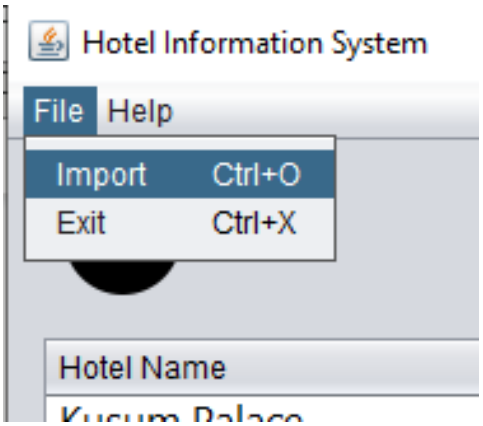
Hotel Name	Address	Rating	Price	Contact Details	Pickup and Drop Service
Kusum Palace	Sarlahi	5 Star	3000	9868193668	Available
Krishna Hotel	Kalinchowk	3 Star	2000	9871627364	Unavailable
Hayat Palace	Jorpati	5 Star	7500	9808185333	Available
Yak and Yeti	Durbarmarg	4 Star	3000	9871625304	Unavailable
Annapurna Hotel	Durbarmarg	3 Star	2000	9801726034	Available
Soaltee Hotel	Soltee Mode	1 Star	1000	9801728341	Available
ALotf Hotel	Thamel	4 Star	3500	9810283549	Unavailable
Himalayan Resort	Pulchowk	3 Star	2000	9871628301	Available
Everest Hotel	Baneshwor	2 Star	1500	9801828464	Unavailable
Country Villa	Maharajgunj	5 Star	4000	9865325710	Available
Gokarna Forest Resort	Gokarna	4 Star	3000	9826350176	Available

- **Importing and Exporting Records**

Information records can be saved as read/write files in the information system (in .csv format). The import option is included in the menu bar's 'File' menu.

The information from the 'Records.csv' file will be read and displayed on the table UI when you import the records.

The information displayed on the table UI will be written to the 'Record.csv' file when you press the save button. Please keep in mind that saving records will overwrite any existing records in the file.



Abhishek Raj Jaiswal, Ayush Madhogaria, Chirag Pokharel, and Shabd Mishra built this information system. To develop this system, we worked best as a team to make it purposeful, efficient, and profitable.

Please contact us at your email address if you have any problems or inconveniences with the software. For complaints, technical help, or concerns, contact any of the email addresses listed below.

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