

Movie Rental Information System

Welcome to Movie Rental Information System help-page. As the system was made keeping a large number of users in mind, not all of them will be able to understand the features and characters of the system. So, this page is to clear up any difficulties or complications that you may have encountered while using our system. The page has been split into different sections based on the key elements/features of the system. So, you can easily jump to the part you don't understand.

It is recommended to first import all the pre-existing records before using the database system.

Contents:

- Data Insertion Section
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- Records Search Section
- Table Section
- Importing and Exporting Records

Please import the pre-existing records first to avoid duplicate entry. (Ctrl+I)

Movie ID:*

Movie Name:*

Studio:*

Movie Genre:*

Director:*

Release Date:*

Booked Date:*

Return in (days):* Cost:

Movie ID	Movie Name	Genre	Studio	Director	Release Date	Booked Date	Return In	Cost
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Modify Records

From the above records, select the record you want to

From the above records, select the record you want to

If you are done modifying the records, don't forget to

Search Records

Search using Movie ID:

Search using Movie Name:

Search using Director:

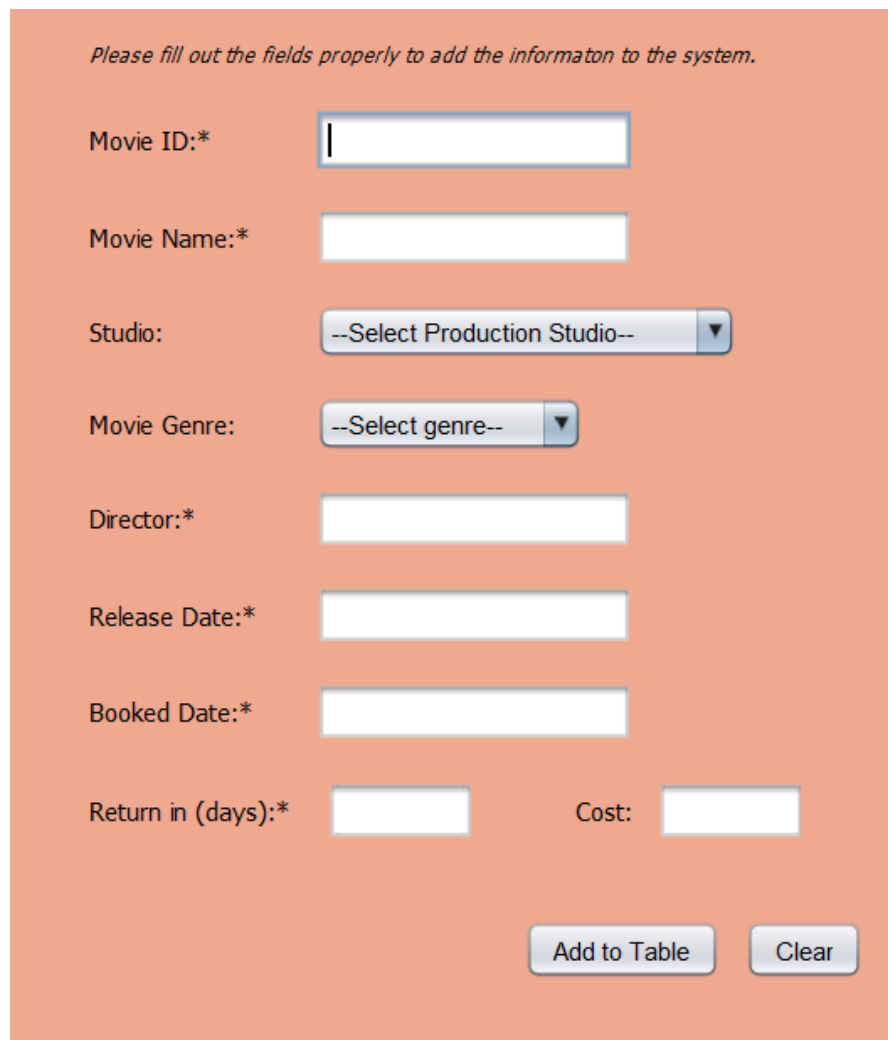
Figure 1: UI of the system

The above diagram shows the general user interface of the information system. The major components of the UI are the ‘insert’ section, ‘modify’ section, ‘search’ section and the ‘table’ section. This help-page will describe the workings of these sections and how to navigate and uses the features in these sections.

➤ Data Insertion Section

The data insertion section UI of the system is where the user will enter the data and information that is to be stored into the database system. The insert section consists of nine different input fields and two buttons. Among these nine fields, the input fields marked with asterisk (*) are compulsory i.e. these fields can not be left empty when entering the information.

The data insertion section UI of the information system is shown below:



Please fill out the fields properly to add the informaton to the system.

Movie ID:*

Movie Name:*

Studio:

Movie Genre:

Director:*

Release Date:*

Booked Date:*

Return in (days):* Cost:

Figure 2: Data Insertion UI

This UI consists of six input text fields, two combo-box, one autofill text field and two interactive buttons. The user can enter the information into the respective text fields as required.

- Movie ID and Return In are numeric fields i.e., they only take integer values.
- Movie Name and Director take alphanumerical values in their fields.
- Studio and 'Movie Genre' contains multiple choices amongst which the user can choose at most one of those values.
 - If the user selects 'Horror' or 'R-rated' from the list of genres, an additional radio button input field will appear. The radio buttons are 'Censored' and 'Uncensored' where 'Censored' will be pre-selected.
- The 'Cost' text field is an auto-fill text field i.e., the value for this text field will be generated automatically. The value for 'Cost' is generated through the 'Return In' field using the formula: $\text{Cost} = 20 + (\text{Return In} * 20)$.
 - From this formula, we can see that the cost for renting a movie is Rs. 20 plus Rs 20 more for each day from the date of booking.
- The 'Release Date' and 'Booked Date' take dates as their value. The date format for these fields is YYYY/MM/DD.
- The 'Add to Table' button adds the values entered into the input fields above into the table of the database. Please keep in mind that all the required fields (marked by *) must be filled to successfully add the information to the database. In case the required fields are not filled, a dialog box will appear to prompt the user to fill the fields.
- The 'Clear' button will remove all the values entered into the input fields while resetting the values of the combo boxes.
- To enter null values into the combo boxes, just leave the input fields as it is i.e., on the first option of the combo box list.

➤ Records Modification Section

The records modification section of the UI is the place where the user can alter, delete or modify the contents in the information of the rows that have already been added to the database system. This portion of the UI consists of three functions. The user can delete the information row that is no longer required for the system or is irrelevant to the system. The user can also update the information row that is outdated or incorrect. Afterwards, the modified records should be saved properly.

The records modification section UI of the information system is shown below:

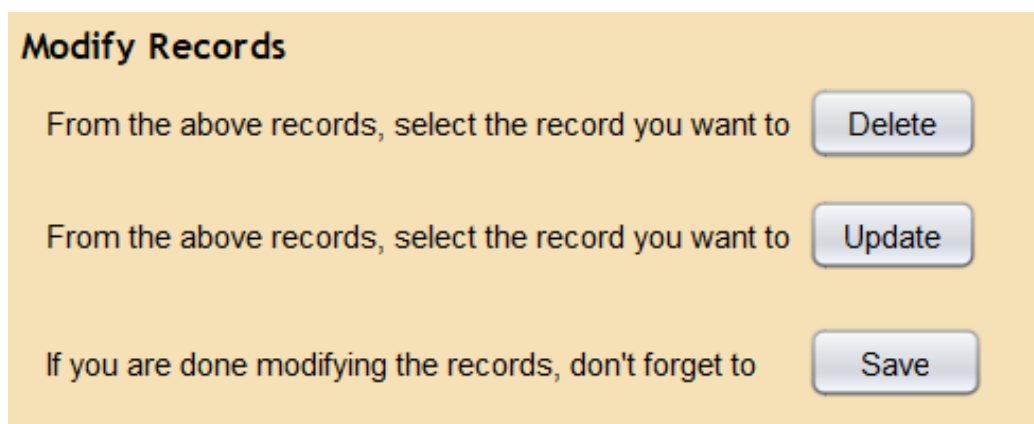


Figure 3: Records Modification UI

This UI consists of three buttons with different functions. The user can use these three buttons to carry out the tasks related to them.

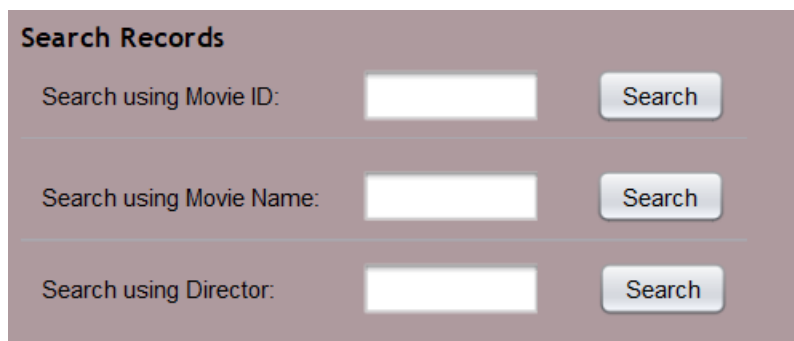
- To delete an information record from the database, first select the concerned row from the database and then click on the 'Delete' button. The system will prompt the user if no record is selected for deletion.

- To update an information record from the database, first select the concerned row from the database and then click on the 'Update' button. Doing this, the system will extract the information in the record from the database and present it in the data insertion section of the UI to be edited. It should be noted that the 'Studio', 'Genre' and 'Return In' field will not have any values in them and their values should be re-entered.
- After the user has modified all the concerned records, don't forget to save all the changes by clicking the 'Save' button. Otherwise, the changes to the rows will not be recorded to the database.

➤ Records Search Section

The records search section of the system UI is the part where the user can search for specific record(s) from all the records that have been added to the database system previously. The user can search for the required record(s) from the database using one of three different search fields. The record search can be done using either the movie ID, movie name or the director name.

The records search section UI of the information system is shown below:



The image shows a UI section titled "Search Records" with a light purple background. It contains three search options, each with a label, a text input field, and a "Search" button. The options are: "Search using Movie ID:", "Search using Movie Name:", and "Search using Director:". The buttons are light blue with rounded corners.

Figure 4: Records Search UI

The user can search through the records using any one of the three search field options. It should be noted that only one among the three search options can be used at any given moment to search through the records. Using multiple search options at once to search can and will generate conflicting search results and the records cannot be displayed.

- To search using the Movie ID field, the user must know the exact ID that was designated to the concerned movie when its information was stored into the database. This search will only return one result as all movie IDs are unique and non-repeating.
- To search using the Movie Name field, the user must know the name of the movie.
- To search using the Director field, the user must know the name of the movie director.

➤ Table Section

The Table section of the UI displays all the records that are on the database system. All the information entered into the 'Movie Rental Information System' is shown in this section. The values entered into the data insertion section is displayed here after the 'Add to Table' button is clicked. The rows of information on the table can be selected so that it can be deleted or be modified.

Movie ID	Movie Name	Genre	Studio	Director	Release Date	Booked Date	Return In	Cost

Figure 5: Table UI

➤ Importing and Exporting Records

The information system allows for information records to be saved as read/write-able file(in .csv format). This file can be imported in to the 'Table' UI and the records can also be exported to the file. The import/export options are under the 'File' menu in the menu bar.

Importing the records will read the information from the "Records.csv" file and display it on the table UI. Its shortcut key is Ctrl+I.

Exporting the records will write the information displayed on the Table UI onto the "Records.csv" file. Please not that exporting records will overwrite all the previous records existing on the file. So be mindful of that. Its shortcut key is Ctrl+E.

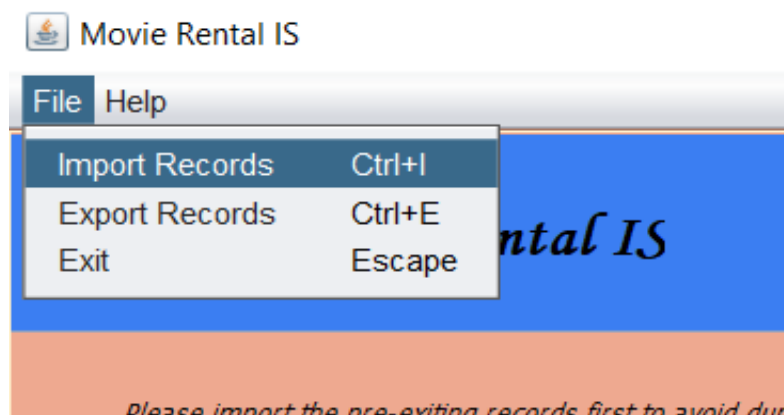


Figure 6: Import/Export menu

This information system was developed by Alka Lama, Asmit Basnet, Bimsara Shrestha and Imon Shrestha. We four have worked together continuously to develop this system and make it as close to the client demands as possible.

If you encounter any problems or any inconvenience with the software itself or have any suggestions to improve the system even more, please feel free to contact us at our Customer Support email. Any one of the below mentioned email address can be contacted for complaints, technical support, suggestions or inquiries.

Alka Lama – np01cp4s200002@islingtoncollege.edu.np

Asmit Basnet - np01cp4s200092@islingtoncollege.edu.np

Bimsara Shrestha - np01cp4s200028@islingtoncollege.edu.np

Imon Shrestha - np01cp4s200088@islingtoncollege.edu.np