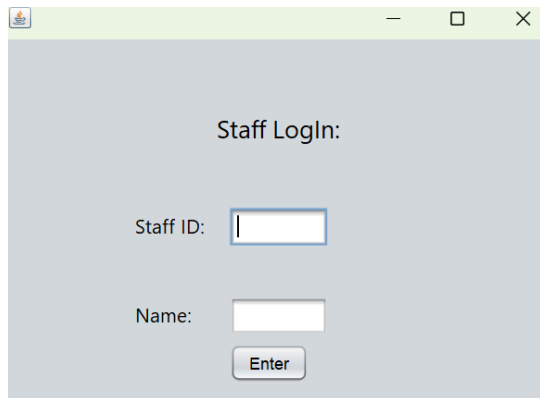


Welcome to our Movie Theater Management System!

Please enter your Staff ID and then your name.

A screenshot of a web application window titled "Staff Login:". The window has a light gray background and a green title bar with standard window controls (minimize, maximize, close). Inside the window, there are two input fields: "Staff ID:" followed by a text box with a cursor, and "Name:" followed by a text box. Below the "Name:" field is a button labeled "Enter".

Staff Login:

Staff ID:

Name:

Depending on the Staff ID and name, determines which job/job actions you can take. For example, John with Staff ID: 1 is a concession stand employee and can only access concession stand related options. The full list of initial employees and their ID numbers are as follows:

Concession staff:

- John (ID: 1)
- Logan (ID: 2)
- Tim (ID: 3)

Ticket staff:

- Edward (ID: 4)
- Michelle (ID: 5)
- Jack (ID: 6)

If there is no data about staff (staff file does not exist yet or is empty), it will take the user to a menu to add the first staff. After adding a staff, it will immediately get out of that page and force the user to log in again as the added staff.

Return

Staff ID

Staff Name

Hourly rate (\$)

Schedule

Position

Add staff

Logging in as a concession or ticket staff will have a different main menu. However, certain operations can be done by both staff positions.

About

Concession Stand

Food Staff

Order Food/Drink

Concession Elements

Change Staff Elements

Analytics

About

Ticket Staff

Log out

Order Movie Ticket

Change Movie Elements

Change Staff Elements

Analytics

The following operations can be done from both main menus:

- Analytics (generating report)
- CRUD operations for staff
- Log out

Analytics

To generate reports, go to the analytics button in any of the two main menus.

There will be 4 panels for 4 different reports:

1. Ticket sales report
The user may enter the starting date and the end date for the report. All ticket sales transactions between the two dates will be displayed in a pop up window in the form of a table.

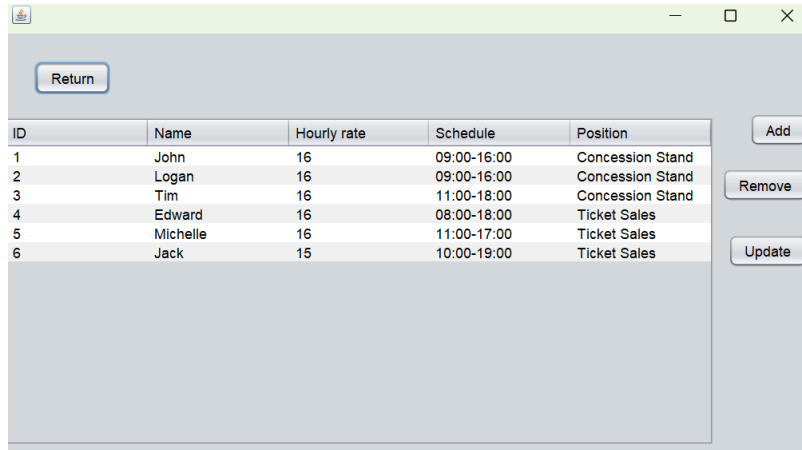
2. Food sales report
The user may enter the starting date and the end date for the report. All food sales transactions between the two dates will be displayed in a pop up window in the form of a table.
3. Inventory report
The user may get the current state of the inventory (available items and their stock) here as a report.
4. Item order report
The user may enter the starting date and the end date for the report. All item order transactions between the two dates will be displayed in a pop up window in the form of a table.

The image displays four screenshots of a web application interface, arranged in a 2x2 grid. Each screenshot shows a window with a title bar and a menu bar containing four tabs: Ticket, Item Order, Inventory, and Food. A 'Return' button is located at the top left of each window. The main content area of each window contains two date-time input fields labeled 'Start time' and 'End time', both set to '5/7/25, 4:23 PM'. Below these fields is a button labeled 'generate [report type] report'. The top-left window has the 'Ticket' tab selected and the button 'generate ticket sales report'. The top-right window has the 'Item Order' tab selected and the button 'generate item order report'. The bottom-left window has the 'Inventory' tab selected and the button 'generate inventory report'. The bottom-right window has the 'Food' tab selected and the button 'generate food sales report'.

Staff elements

In the staff elements page, accessible from both main menus, users can display the staffs and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

1. Add: clicking this will open a window prompting the user to enter information about a newly added staff
2. Remove: clicking this will remove the highlighted staff from the database
3. Update: clicking this will prompt the user to enter information in a new window and will update the highlighted staff with the new information.



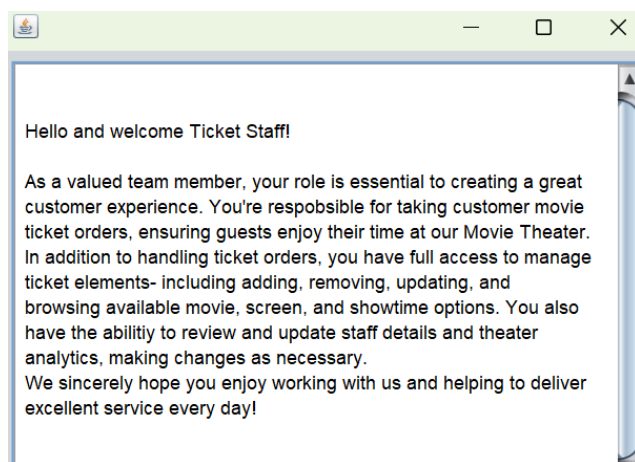
Log out

To log out of the system, just click the Logout button in any of the 2 main menus and it will take the user back to the login page.

Ticket Main Menu

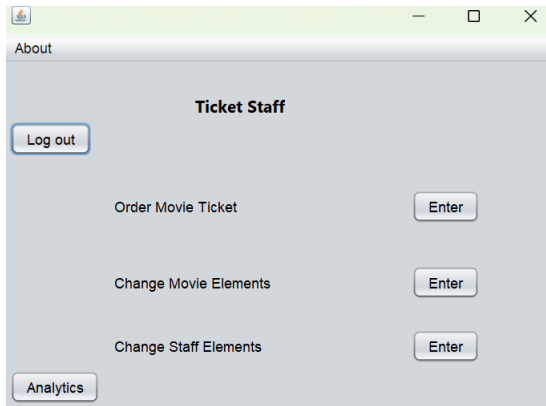
About page

To go to the ticket menu about page, click the About button at the top left of the ticket main menu.



Order ticket

In the ticket main menu, to order tickets, click the Order movie ticket button.



Here, the user will be prompted to enter the customer's name, the payment type (cash or credit card), and the movie. The user must select one of the rows to proceed to the next step. Once all information are filled, press next button.

Order Movie Ticket

Order For:

Payment Type: ☒ Cash ☐ Credit Card

Movie ID	Genre	Duration	Duration (Min)
1	Star Wars	Science Fiction	124
2	Back To The ...	Science Fiction	116
3	Jaws	Thriller	130
4	Lord Of The R...	Fantasy	201
5	28 Days Later	Thriller	113
6	The Mummy	Action	124

Return Next

Here, the user will be prompted to choose one of the showtimes available for a particular movie chosen from the previous page. Once something is selected, press the next button.

Here is the showtime options for the movie Star Wars

Showtime ID	Screen ID	Screen type	Start time
1	1	imax	10:00
2	1	imax	15:00

Return Next

Here, the user may choose 1 or more seats. Every seat picked has to be reserved by pressing the “Book” button. The “X” will change to “R” for reserved. The user can also clear all chosen seats by clicking the “Clear” button. Any “O” seats are already ordered and can’t be reserved anymore. Once the choosing process is done, click the “Next” button.

Return Clear Book Next

Here, the user will be prompted to confirm if the order is correct. If not, then click no and it will return to the previous page to change the order again. If yes, then it will go to the next page.

Is everything correct?

1 Movie 'Star Wars'.
Screen room #1; type: imax
The price for each ticket is \$15
The following is the seats you ordered:
- Seat at (5, 6)

No Yes

Order #2025-05-07-0002
This order is for: User
Movie: 'Star Wars'
Start time: 10:00
Screen room #1

Ticket type	Qty	Total price
IMAX ticket	1	\$15

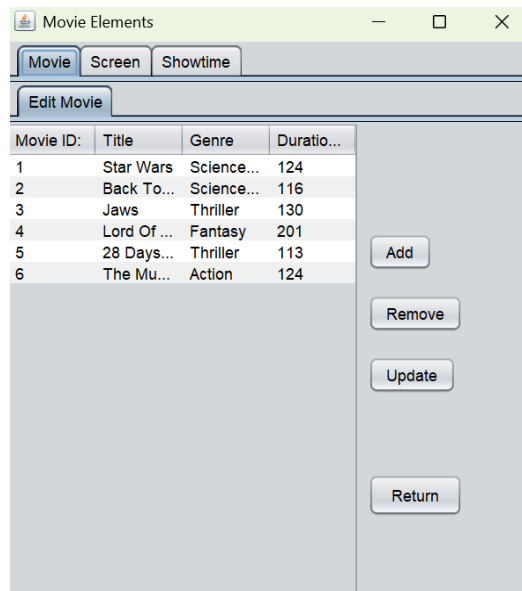
Seats ordered:
- Seat at (5, 5)
Total price is \$15, paid with Cash
Thank you for watching with us!

Ok

Here, the user will have the receipt generated on the screen for the current order session. Clicking “OK” will return the user back to the ticket main menu.

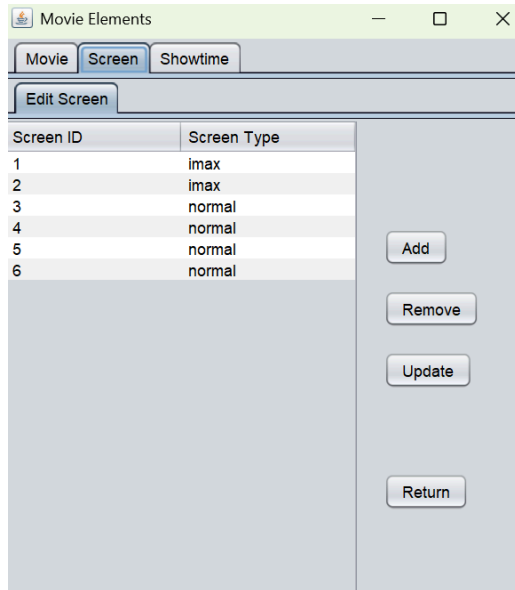
Movie elements

In the ticket main menu, to do CRUD operations on movie, screen, and showtime, click the Movie elements menu. Inside, there will be 3 panels for movie, screen, and showtime CRUD operations



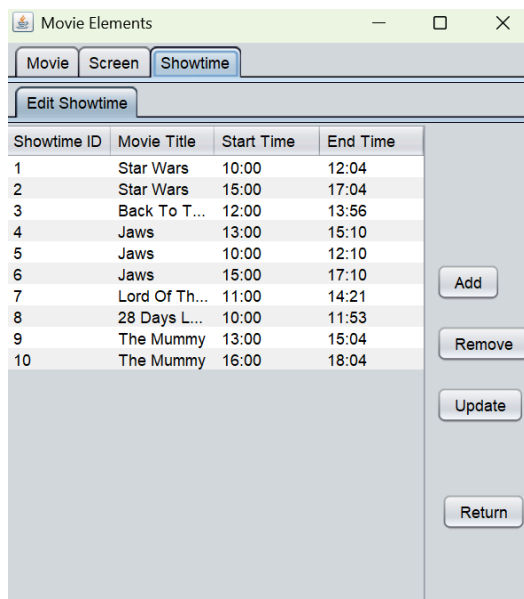
Here, users can display the movies and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

1. Add: clicking this will open a window prompting the user to enter information about a newly added movie
2. Remove: clicking this will remove the highlighted movie from the database
3. Update: clicking this will prompt the user to enter information in a new window and will update the highlighted movie with the new information.



Here, users can display the screen and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

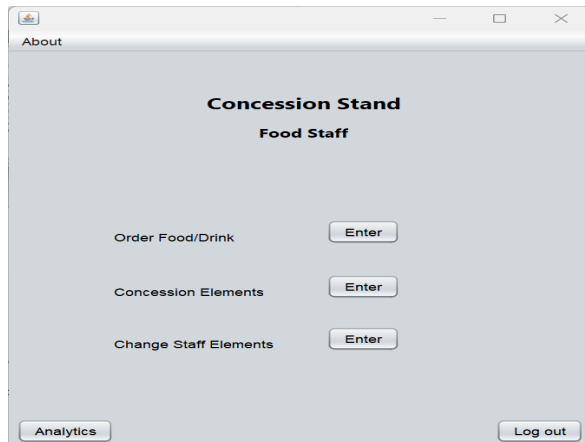
1. Add: clicking this will open a window prompting the user to enter information about a newly added screen
2. Remove: clicking this will remove the highlighted screen from the database
3. Update: clicking this will prompt the user to enter information in a new window and will update the highlighted screen with the new information.



Here, users can display the showtimes and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

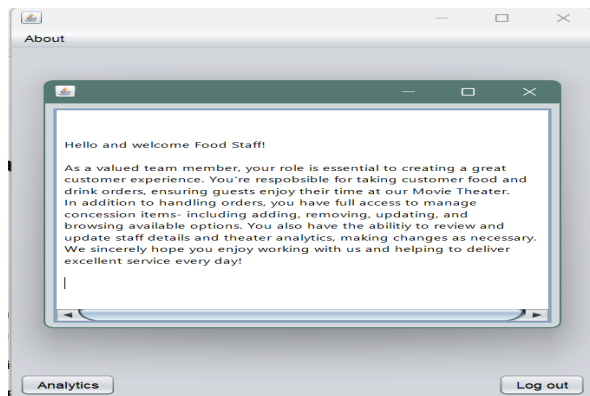
1. Add: clicking this will open a window prompting the user to enter information about a newly added showtime
2. Remove: clicking this will remove the highlighted showtime from the database
3. Update: clicking this will prompt the user to enter information in a new window and will update the highlighted showtime with the new information.

Food Main Menu



About page

To go to the food menu about page, click the About button at the top left of the food main menu



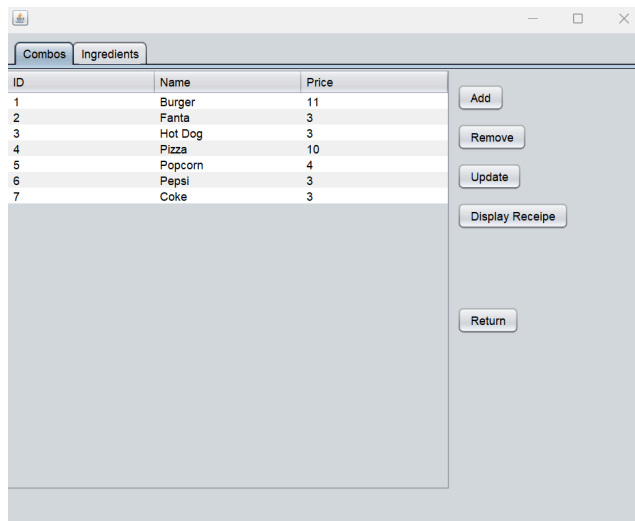
Order food

In the food main menu, to order food, click the Order food/drink button.

Here, the user will have the receipt generated on the screen for the current order session. Clicking “OK” will return the user back to the food main menu.

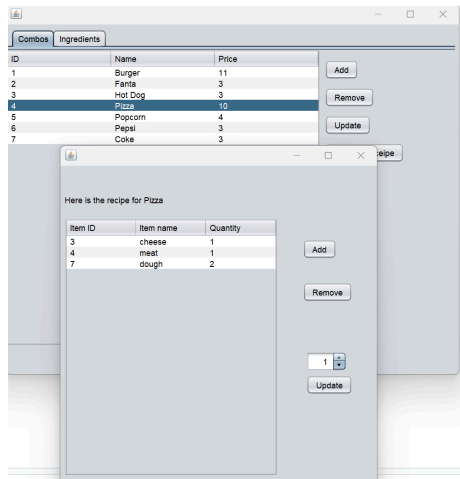
Concession elements

In the food main menu, to do CRUD operations on food, ingredients, and recipe, click the Concessions Elements menu. Inside, there will be 2 panels for food and ingredients CRUD operations. For recipe CRUD, highlight one of the food and click “display recipe”.



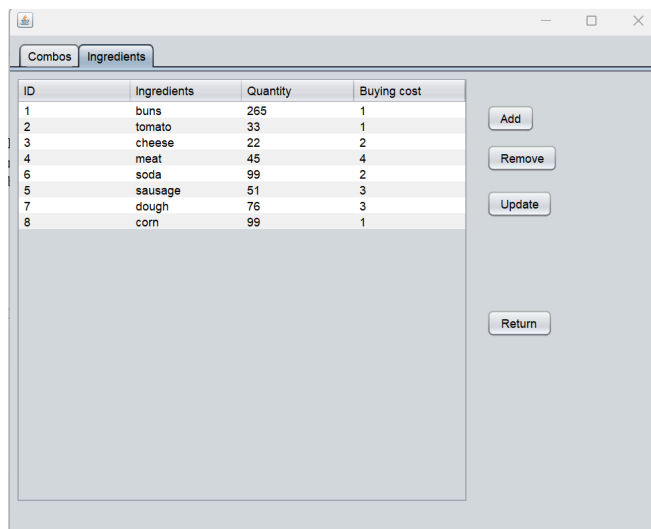
Here, users can display the available food and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

1. Add: clicking this will open a window prompting the user to enter information about a newly added food
2. Remove: clicking this will remove the highlighted food from the database
3. Update: clicking this will prompt the user to enter information in a new window and will update the highlighted food with the new information.
4. Display recipe: clicking this will show the user a panel for doing CRUD operations for the recipe of a highlighted food. It will be elaborated further in the next section.



Here, users can display the recipe and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

1. Add: clicking this will open a window prompting the user to choose an ingredient/item as a newly added recipe with its required quantity to make a single unit of a particular food.
2. Remove: clicking this will remove the highlighted recipe from the associated food
3. Update: clicking this will prompt the user to enter the new required quantity and will update the highlighted recipe with the new information.



Here, users can display the available ingredient/item and do CRUD operations. Before pressing remove or update, one of the rows has to be selected, otherwise nothing happens. Any successful CRUD operations will immediately be reflected on the table. To return to the main menu, click the return button.

1. Add: clicking this will open a window prompting the user to enter information about a newly added ingredient/item
2. Remove: clicking this will remove the highlighted ingredient/item from the database

3. Update: clicking this will prompt the user to enter information in a new window and will update the highlighted ingredient/item with the new information.