# Table of Contents

# 1.0     Introduction

The task was to produce a movie ticketing system which enables the user to book a ticket for available movies. Users can check availability for a movie and make a reservation for a specific date and seat. There are 3 types of seats available: Standard, Gold and Premium. Customers can select seats depending on personal preference. Each type has its price. Standard is for RM 15, Gold is for RM 20 and Premium is for RM 45. Regular staff can make new reservations, edit reservations and enter payments. Only managers can access the reports. Regular staff is not authorized to check the reports.

This new system is beneficial for users because it enables users to book a ticket easily with just a few steps. It is also easier and safer for managers to check the report because only they have access to the report. The system is very simple and requires only few steps to book a ticket. This new system allows customers to change their reservations if they want. Either for a seat or date but they should meet any member of the staff first to change any details. If the seat has already been reserved by another person from before then they won't be able to choose that number. They must choose another seat or date. The customer can choose to pay in notes or coins. Notes being RM 1, RM 5, RM 10, RM 20 and RM 50. Coins being RM 0.10 and 0.50. The report allows you to view all the updated reservations till date. This system allows users to add a new booking while they are on the booking screen which is easier.
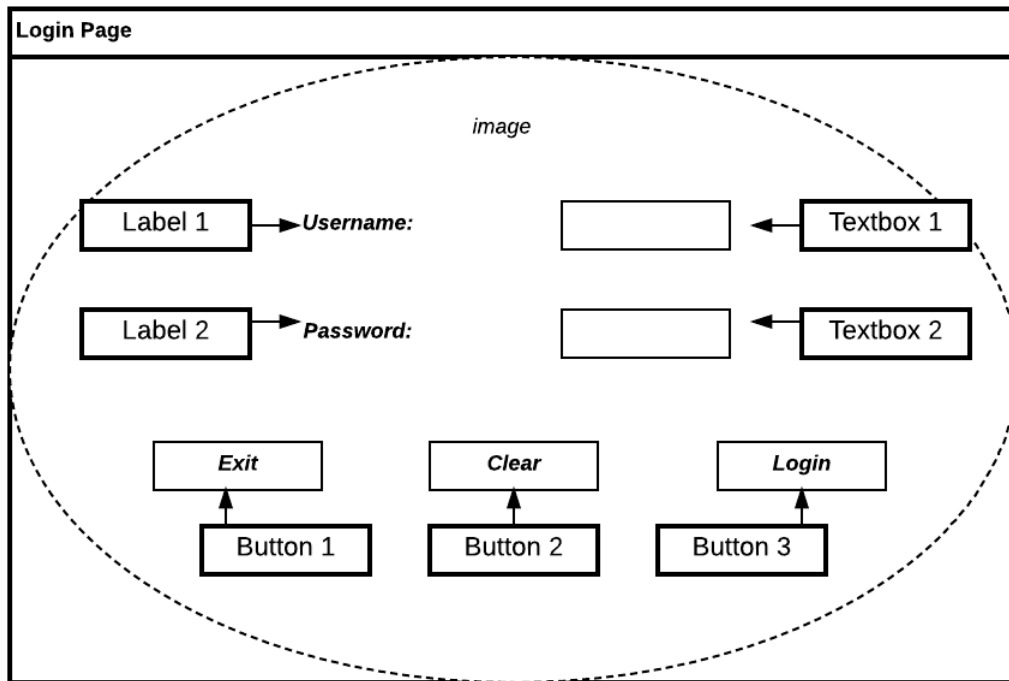
Most of the prices are automatically provided to the user when they select the movie or seat. The system does not provide the wrong prices. If you wish to cancel, you can cancel from the login page or the booking page. Staff and Managers have similarities in accessing the system. The only difference is that Managers can view the report whereas the rest of the staff cannot. When the staff logs in, the system takes it to a different page from how the managers can access. Managers have a report button, but staff doesn't have that.

The users also have an update option in the edit part where they can update any information they want. In the booking page, after users have selected everything and they press pay, it takes them to the payment page where the user has to enter the notes that he/she has received from the customer. After they press pay, a new reservation has been made.

# 2.0    Abstract

This documentation is about a movie ticketing system which enables users to book a ticket from the movies available. This document includes an introduction which explains everything about the new movie ticketing system and most of its functions. The introduction includes the task, scope and objectives of the new system. This documentation also includes a storyboard which includes the sketch design GUI, indicating the layout of the forms and report and the components included in the forms. This documentation includes sample output screens which shows the actual screen when the program is executed. This is mostly the same as the storyboard but this one is complete with design and the program fully working. This documentation consists of a detailed user manual which basically shows step by step how the system works and how it is used. There is a critical assessment which identifies the strengths and the weakness that our group came through while doing the assignment. There are recommendations on how to overcome those difficulties in the future. There is a conclusion at the end of the documentation. At last, there are some references used by our group.

# 3.0    Storyboard

**Login Page**

image

| Label 1 | → Username: | | ← Textbox 1 |

| Label 2 | → Password: | | ← Textbox 2 |

| Exit | Clear | Login |
| Button 1 | Button 2 | Button 3 |

## Login Page

- ➤ **Label 1    – Staff Username**
- ➤ **Label 2    – Staff Password**
- ➤ **Textbox 1 – Staff Username (Text Input Field)**
- ➤ **Textbox 2 – Staff Password (Text Input Field)**
- ➤ **Button 1  – Exit System**
- ➤ **Button 2  – Clear all Input Fields**
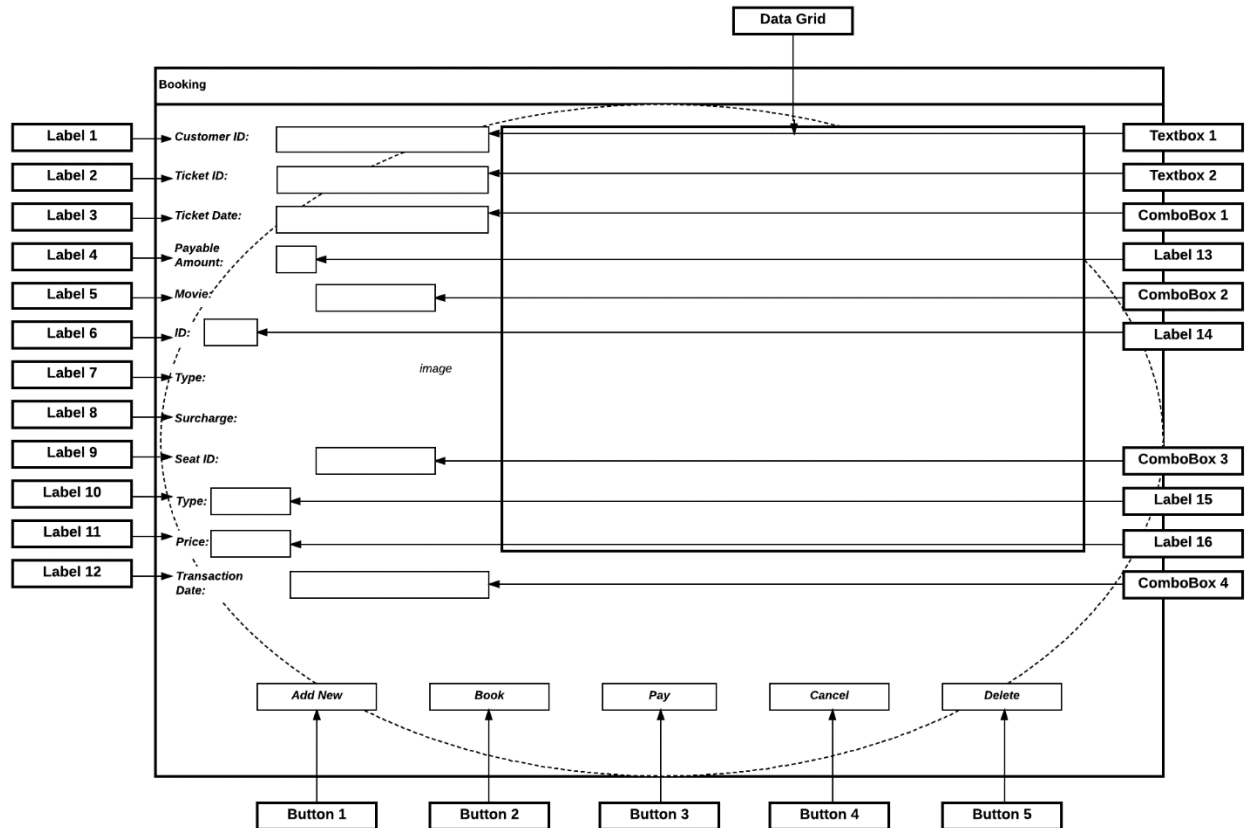- ➤ **Button 3  – Login to the system**
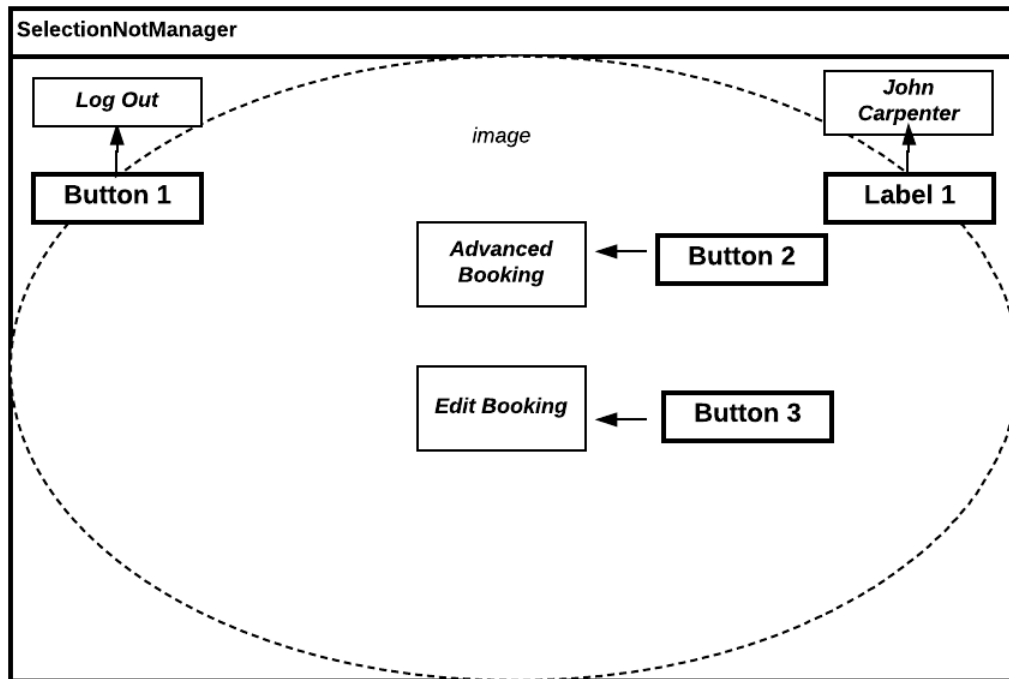
## SelectionNotManager

- ➤ **Button 1   –   Logout of the system**
- ➤ **Button 2   –   Advanced Booking (New Booking)**
- ➤ **Button 3   –   Edit Booking**
- ➤ **Label 1   –   Username of person who logged in**
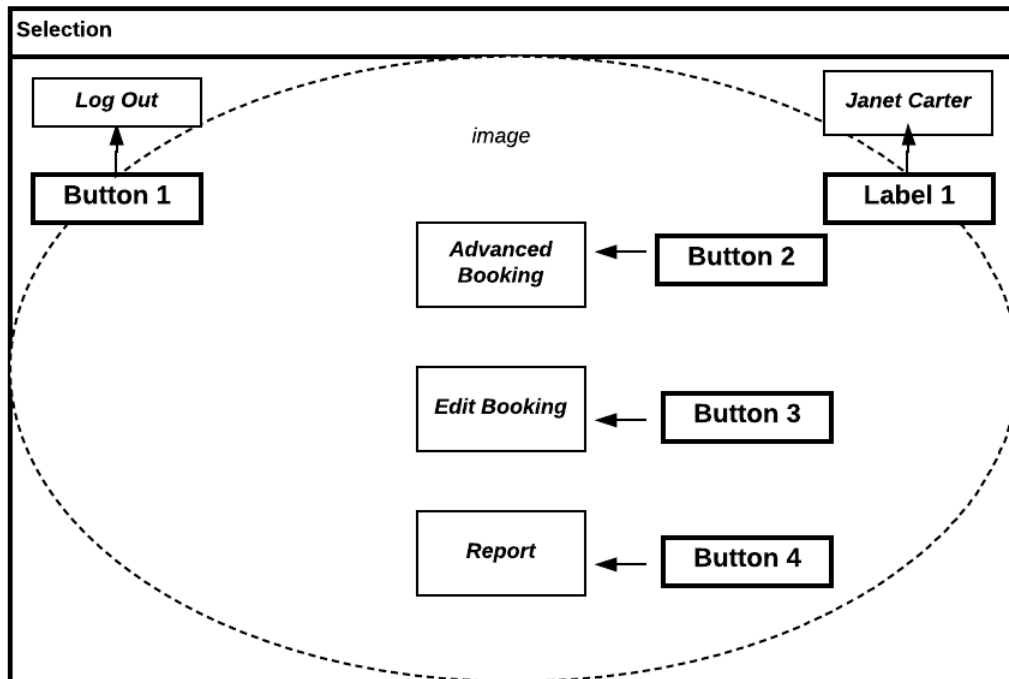
## Selection

- ➢ **Button 1  –  Logout of the system**
- ➢ **Button 2  –  Advanced Booking (New Booking)**
- ➢ **Button 3  –  Edit Booking**
- ➢ **Button 4  –  Reservation Report**
- ➢ **Label 1  –  Username of person who logged in**

# Booking

- Label 1 – Customer ID
- Label 2 – Ticket ID
- Label 3 – Ticket Date
- Label 4 – Payable Amount
- Label 5 – Movie Name
- Label 6 – Movie ID
- Label 7 – Movie Type
- Label 8 – Surcharge Rate
- Label 9 – Seat ID
- Label 10 – Seat Type
- Label 11 – Seat Price
- Label 12 – Transaction Date
- Label 13 – Payable Amount (Input Text field)
- Data Grid – Shows all reservations
- Label 14 – Movie ID (Input text field)
- Label 15 – Seat type (Input text field)
- Label 16 – Seat Price (Input text field)
- Button 1 – Add New Reservation
- Button 2 – Save reservation
- Button 3 – Pay
- Button 4 – Cancel Booking

- Button 5 – Delete Booking
- Textbox 1 – Customer ID (Input Text Field)
- Textbox 2 – Ticket ID (Input Text Field)
- Combo Box 1 – Ticket Date (Selector)
- Combo Box 2 – Movie (Selector)
- Combo Box 3 – Seat ID (Selector)
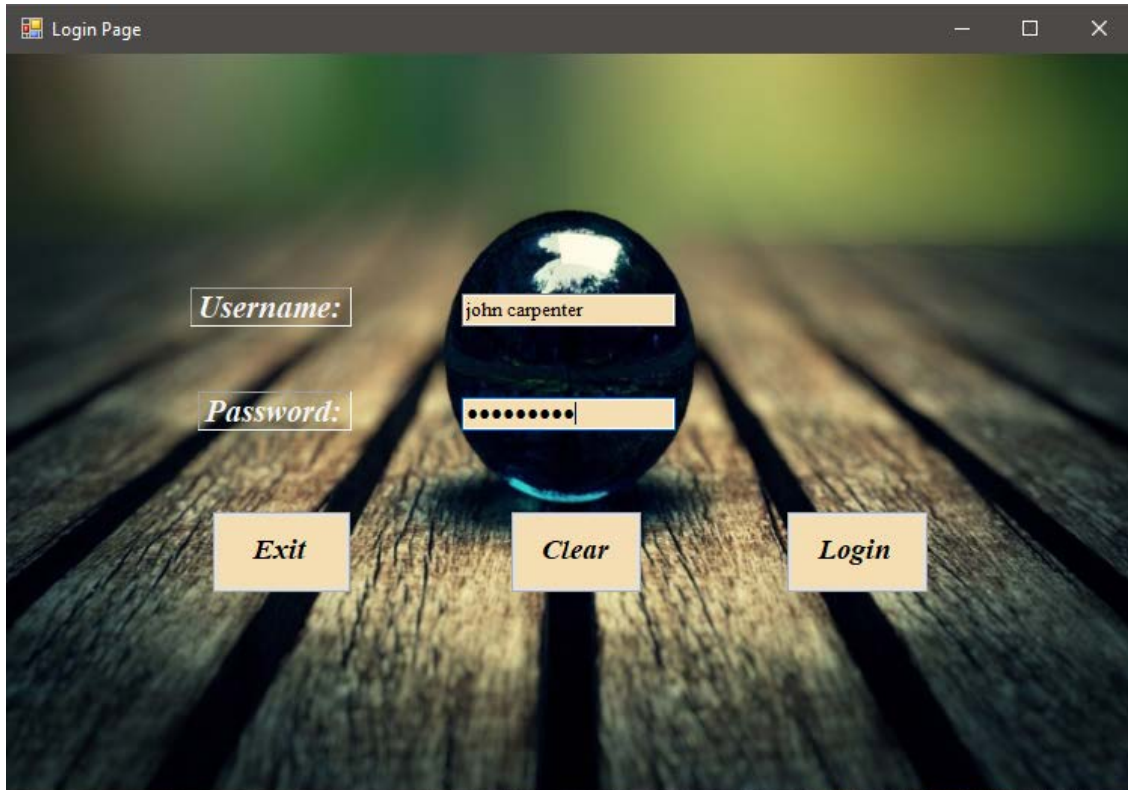- Combo Box 4 – Transaction date (Selector)
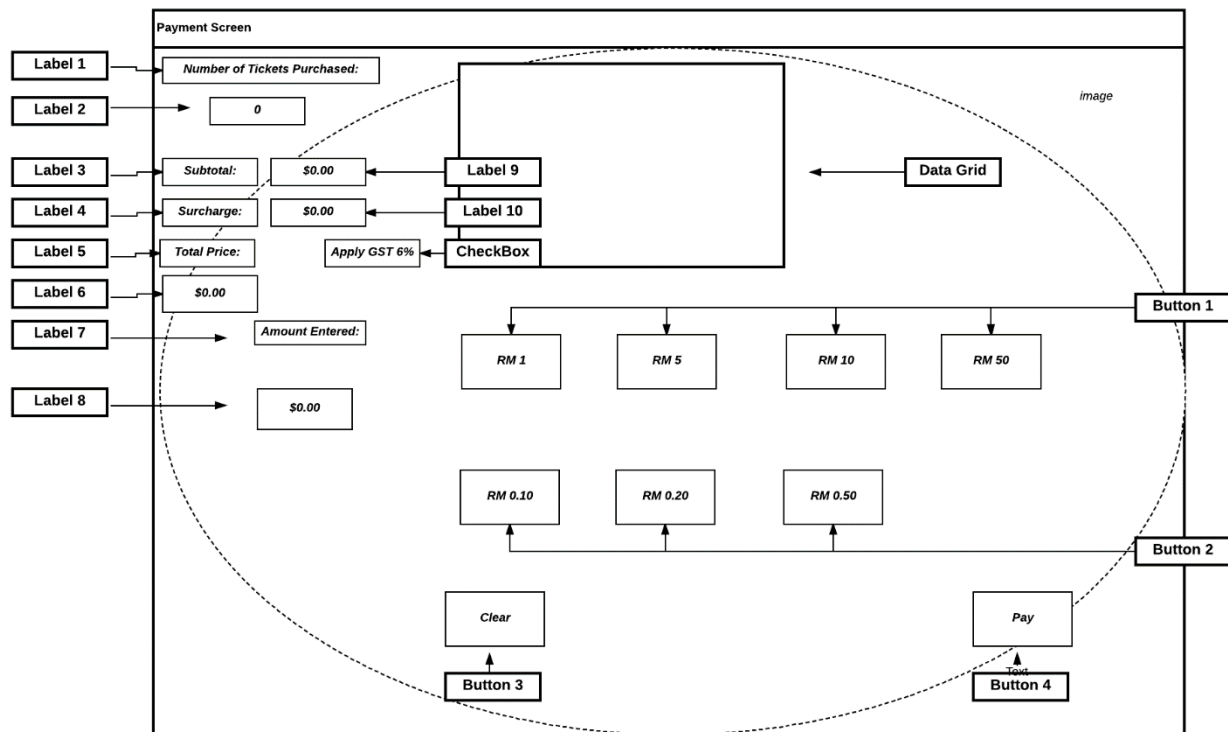
# Payment Screen

- ➢ **Label 1 – Number of Tickets Purchased**
- ➢ **Label 2 – Number of Tickets purchased (output)**
- ➢ **Label 3 – Subtotal**
- ➢ **Label 4 – Surcharge**
- ➢ **Label 5 – Total Price**
- ➢ **Label 6 – Total Price (output)**
- ➢ **Label 7 – Amount entered**
- ➢ **Label 8 – Amount entered (output)**
- ➢ **Label 9 – Subtotal (output)**
- ➢ **Label 10 – Surcharge (output)**
- ➢ **Button 1 – Notes**
- ➢ **Button 2 – Coins**
- ➢ **Button 3 – Clear (clears all contents in Amount entered (output)**
- ➢ **Button 4 – Pay**
- ➢ **Data Grid – Shows all reservations**
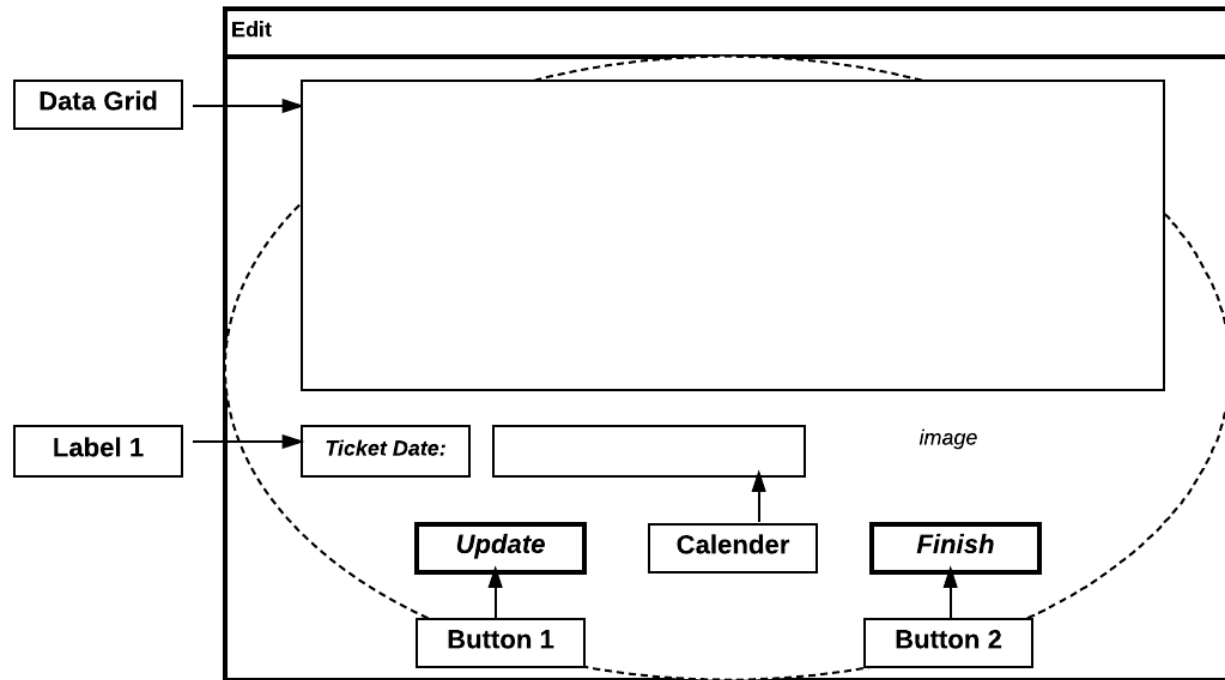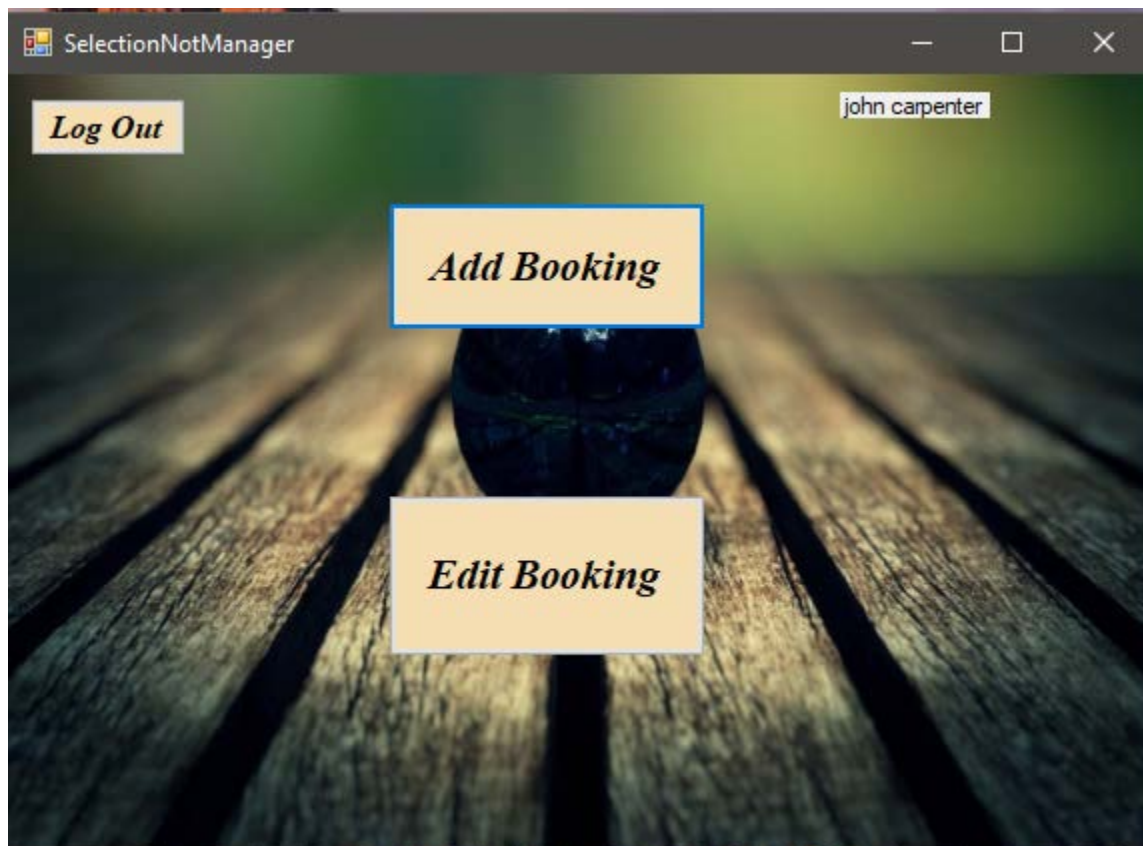
**Edit**

- ➢ **Label 1 – Ticket Date**
- ➢ **Button 1 – Update booking**
- ➢ **Button 2 – Finish booking**
- ➢ **Calendar – Date selector**
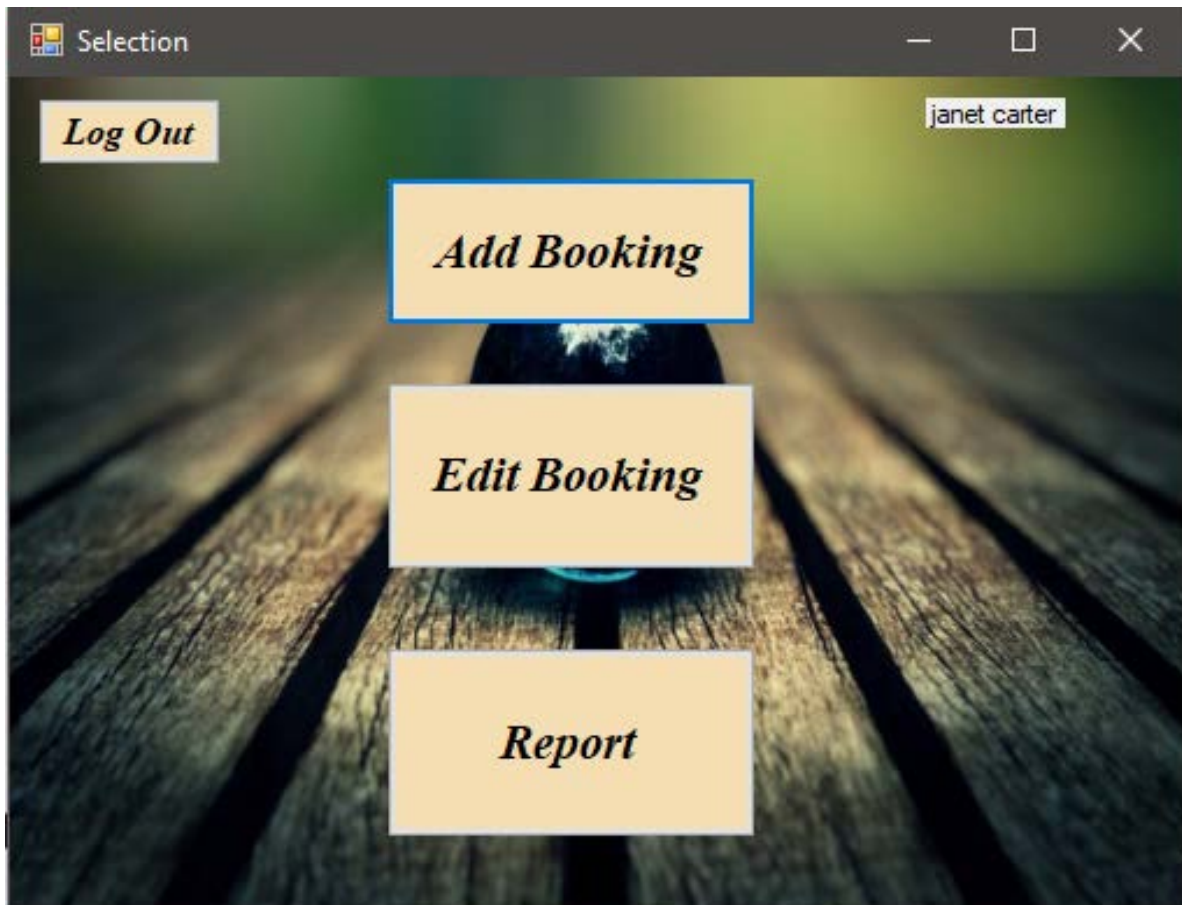- ➢ **Data Grid – Shows all reservations**

## 4.0    Output Screen

# Login Page

# Employer Login Page

# Manager Login Page

# Adding a new booking

# Payment Screen

# Edit Screen

| | TicketID ▲ | TicketDate | PayableAmount | MovieID | SeatID | CustomerID | TransactionDate |
|---|---|---|---|---|---|---|---|
| ▶ | 1 | 11-Nov-17 | 15 | MI011127 | 9 | A8914 | 03-Nov-17 |
| | 2 | 12-Nov-17 | 25 | MI011132 | 3 | AC001 | 04-Nov-17 |
| | 3 | 11-Nov-17 | 25 | MI011132 | 4 | AL001 | 05-Nov-17 |
| | 4 | 11-Nov-17 | 20 | MI011213 | 6 | B3123 | 07-Nov-17 |
| | 5 | 10-Nov-17 | 20 | MI011213 | 12 | D2314 | 04-Nov-17 |
| * | | | | | | | |

**Ticket Date:** 11-Nov-17

*Update*                                                    *Finish*

# 5.0      User Manual
## 5.1 Startup of Application
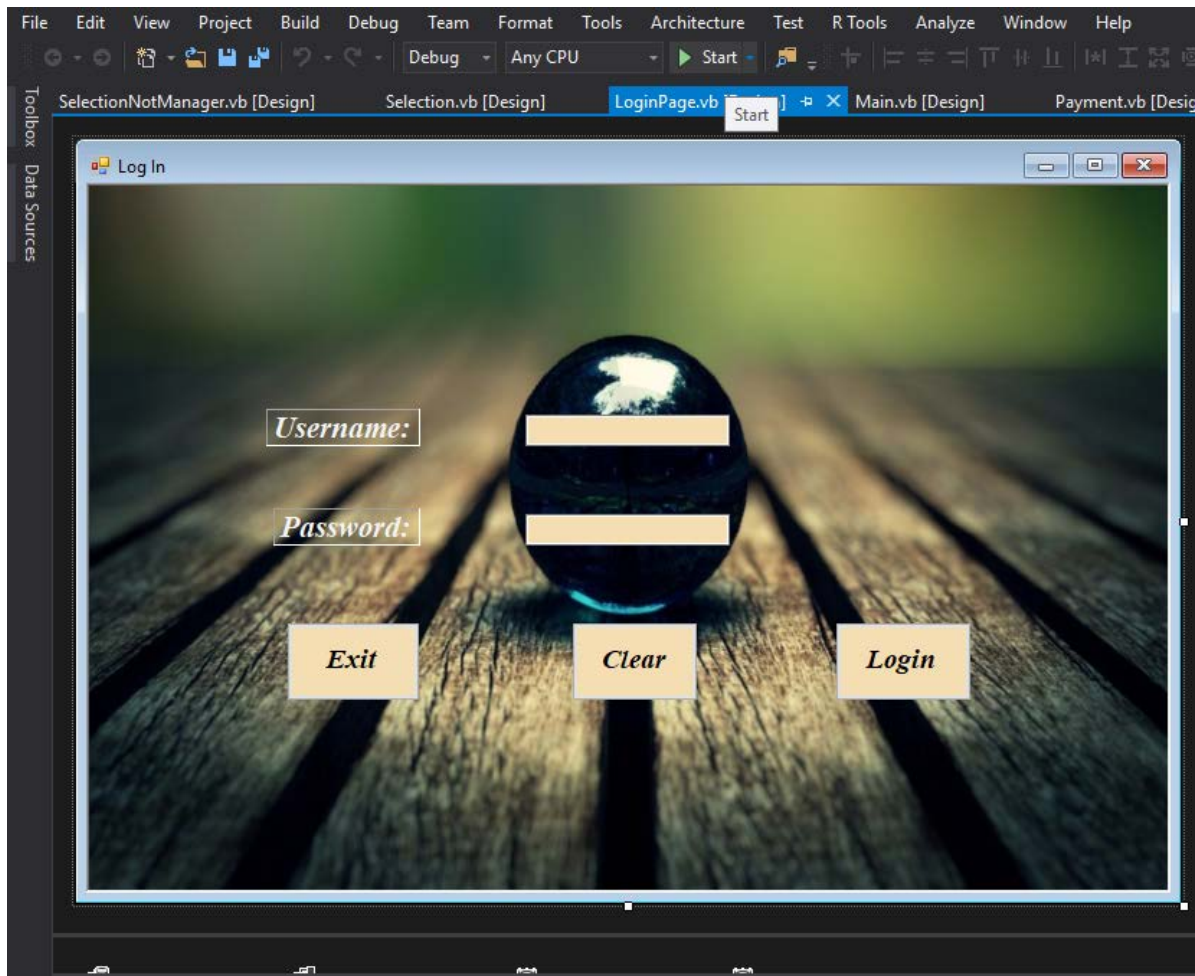


Press the start button on the top to start the program. This will start the program from the login page because that is the first page.

## 5.2 Login Page

## Step 1: Login Page



The user must add a valid username. The username should be of an employee.

If you do not wish to continue, you can exit the program.

The user must a valid password which is correct with the username or else there will be an error message saying, 'wrong username or password'. All the credentials must be correct to login.

If you are unsure about the contents that you entered, you can clear the contents.

After you are sure about the contents that you entered, you must press the login button to proceed to the next step.

The member of staff first must enter the username and password. Then they must press Login. If the details entered are correct, it will take them to the next page which is the selection page. If the details are not correct, then it will pop up a message box saying incorrect username or password.

This shows the username of the person who logged into the system.

## Step 2: Staff Selection Page

If you wish to cancel, you can press the logout button and cancel.
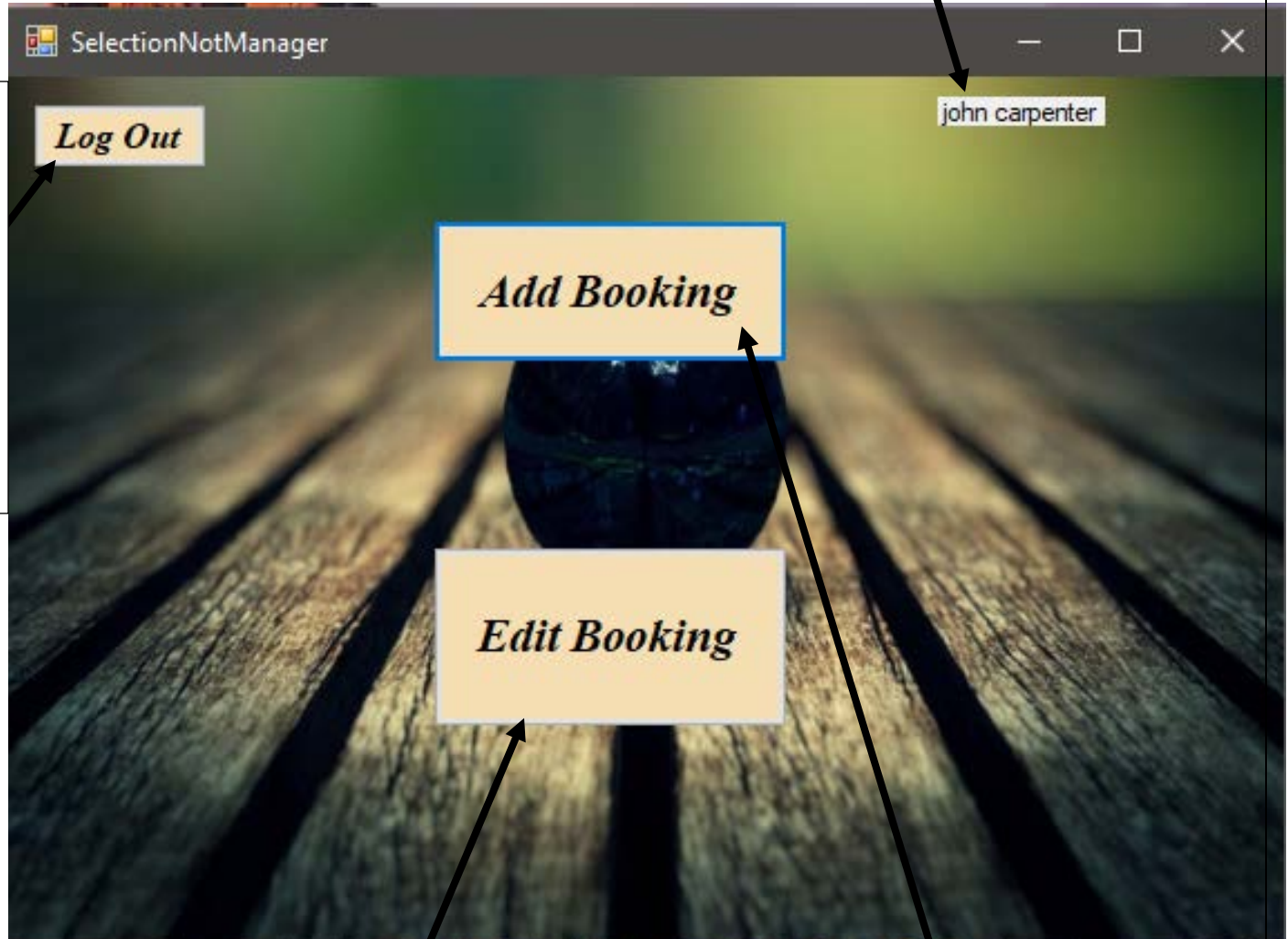


Edit booking is to edit a booking which has already been made

If you press 'Add Booking' it will take you to a page to add a new, fresh booking. We will press this button because we want to add a new booking.

Here, the employee has a choice to Add a new booking or edit a booking. To create a new booking, the user must press 'Add new booking'. This will take them to the booking page.

## 5.4 Add New Booking

**Step 3 Part 1: Booking Page (1ˢᵗ Half)**

This is Ticket ID which is specific to each ticket sold.

Customer ID which is specific to each customer. You must enter the customer ID first.

This is a data grid which shows customer information.

Date of Movie.

Movie ID.



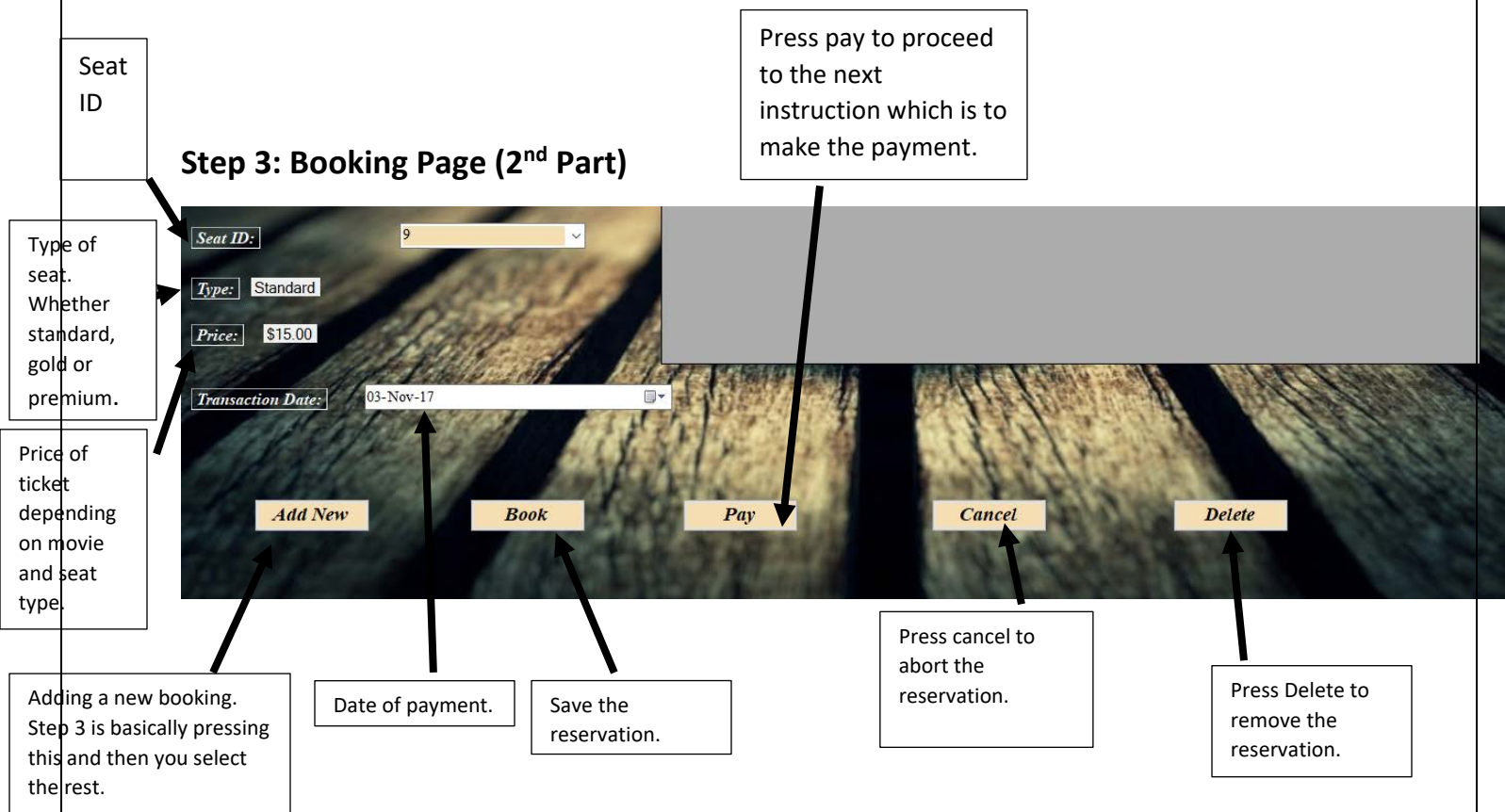| TicketID | TicketDate | PayableAmount | MovieID | SeatID | CustomerID | TransactionDate |
|---|---|---|---|---|---|---|
| 1 | 11-Nov-17 | 15 | MI011127 | 9 | A8914 | 03-Nov-17 |
| 2 | 12-Nov-17 | 25 | MI011132 | 3 | AC001 | 04-Nov-17 |
| 3 | 11-Nov-17 | 25 | MI011132 | 4 | AL001 | 05-Nov-17 |
| 4 | 11-Nov-17 | 20 | MI011213 | 6 | B3123 | 07-Nov-17 |
| 5 | 10-Nov-17 | 20 | MI011213 | 12 | D2314 | 04-Nov-17 |

Type of movie. Whether it is 2D, 3D or Imax. Depends on movie selected

Surcharge depends on type of movie.

You must select a movie by pressing the drop-down button. You must select from the options provided.

The customer ID is the first thing the user will see. It will automatically be added by the system. The user must press the 'Add New' button to make a new reservation. The user doesn't have to add it manually. The user might have to change the ticket ID depending on the number. The user must then manually select the date they want to choose for the movie. The payable amount will be shown automatically after the selection of movie. The movie ID, Type and Surcharge will automatically appear after the selection of movie.

Seat ID

Press pay to proceed to the next instruction which is to make the payment.

## Step 3: Booking Page (2nd Part)

Type of seat. Whether standard, gold or premium.

Price of ticket depending on movie and seat type.

Seat ID: 9

Type: Standard

Price: $15.00

Transaction Date: 03-Nov-17

**Add New**        **Book**        **Pay**        **Cancel**        **Delete**

Adding a new booking. Step 3 is basically pressing this and then you select the rest.

Date of payment.

Save the reservation.

Press cancel to abort the reservation.

Press Delete to remove the reservation.

After selection of movie, the user should select a Seat ID. The user has the privilege to choose their seat. The type of seat and the price will appear automatically after selection of seat ID. The transaction date must be selected manually. That is the date the payment had been made by the user for the selected movie. After everything is complete, user must press book to reserve or pay to make the payment. If the user wants to cancel, they can press the cancel button.

## 5.5 Booking Page

## Step 3: Booking Page



When the users click 'Add new booking' this is the next page that appears. The user must select 'Add New' first to add a reservation. The user must select the ticket date, the movie and the seat ID. The movie ID, Surcharge, type and price will automatically appear depending on which movie and seat the user selects. If the user is confirmed about what they selected, they can press book to reserve earlier or select pay to complete the payment. If the user presses book, a message box will appear saying 'Seat Booked'.

## 5.6 Payment Screen

GST 6% will be included when purchasing a ticket.

Combo Box will show the information about the payment.

Shows number of tickets purchased.

**Step 4: Payment Screen**

Total and surcharge

Shows total amount with GST

This will show the amount of money you selected.



**Number of Tickets Purchased**

0

Subtotal: $0.00

Surcharge $0.00

Total Price ☐ Apply GST, 6%

$0.00

Amounts entered:

$0.00

RM1     RM5     RM10     RM50

RM0.10     RM0.20     RM0.50

Clear     Pay

This will clear the contents in the label 'Amount Entered'.

You must select the money that you are entering. These are the number of notes and coins that you are entering.

Press this to confirm the payment and exit the program.

This is the payment screen. The number of tickets purchased will automatically be shown by the system at the top of the screen. The subtotal, surcharge and total price will also be automatically shown by the user. The user has an option to select the GST. The user then must select the number of notes they are entering. The amount entered will automatically be shown by the system. If the user made a mistake they can choose to clear the number of notes entered. If the rest is correct, the user can press the pay button.

<div align="center">

### 5.7 Edit Booking

</div>

**Step 5: Edit Page**

This is the data grid where you can change most of the information.

| | TicketID | ▲ | TicketDate | PayableAmount | MovieID | SeatID | CustomerID | TransactionDate |
|---|---|---|---|---|---|---|---|---|
| ▶ | 1 | | 11-Nov-17 | 15 | MI011127 | 9 | A8914 | 03-Nov-17 |
| | 2 | | 12-Nov-17 | 25 | MI011132 | 3 | AC001 | 04-Nov-17 |
| | 3 | | 11-Nov-17 | 25 | MI011132 | 4 | AL001 | 05-Nov-17 |
| | 4 | | 11-Nov-17 | 20 | MI011213 | 6 | B3123 | 07-Nov-17 |
| | 5 | | 10-Nov-17 | 20 | MI011213 | 12 | D2314 | 04-Nov-17 |
| * | | | | | | | | |

**Ticket Date:** 11-Nov-17

**Update**

**Finish**

If you click this update button, it will automatically change the information in the data grid to what you want it to be after you changed the date. For example, you changed the date from 11th November to 2nd November. This will also change in the database and the data grid will be updated.

This is the movie date. You can also change this and keep it on a day of your choice. It will automatically change in the database.

Press the finish button to complete the changes. After clicking it, the program will automatically close.

This is the edit page where the user can edit any reservation they made earlier. This is to make any changes to their current reservation. They can modify the seat ID and ticket date if they want. After everything is done, the user can click the 'Update' button to confirm the changes made. Then the user can press 'Finish'.
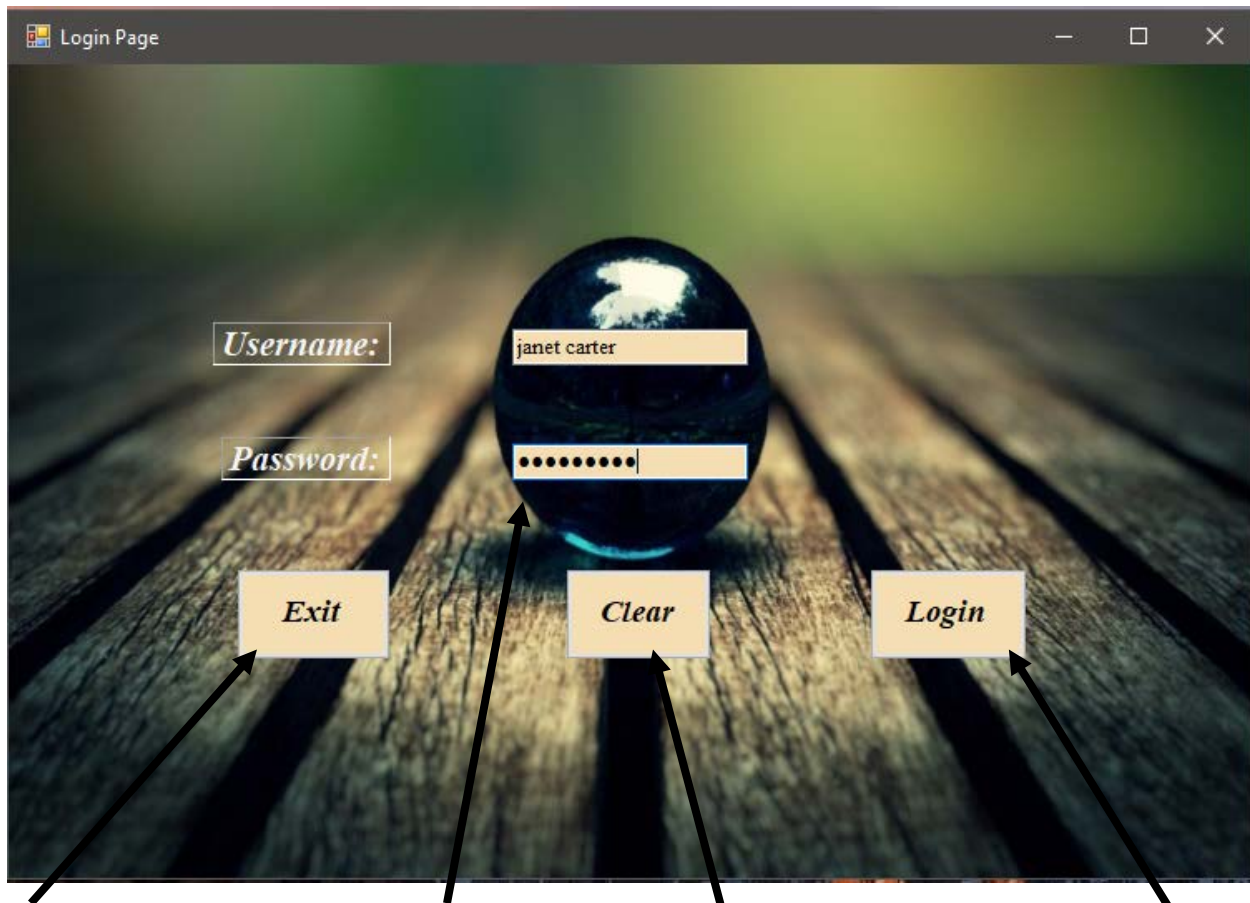
5.8 Closing the Application

**Step 6: Exit**
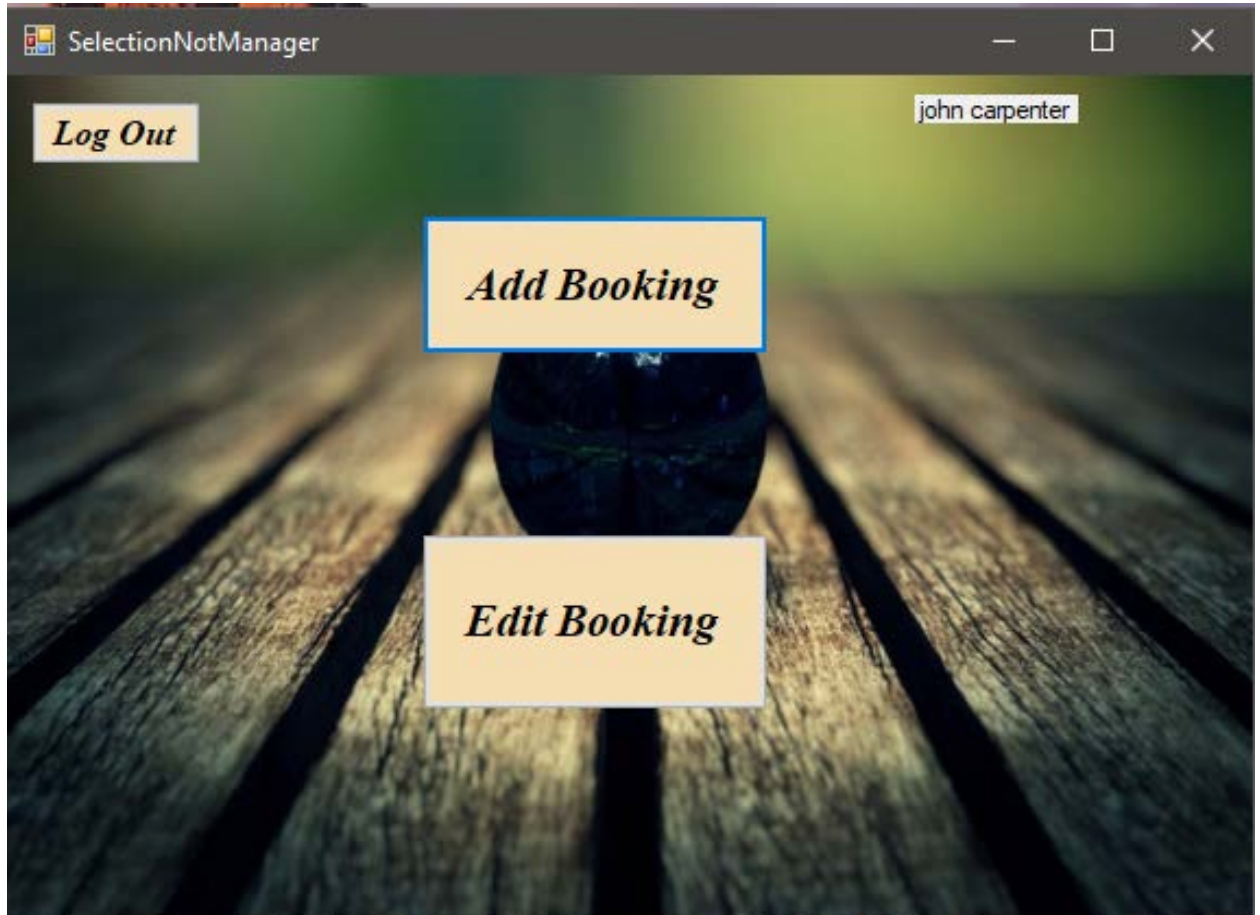


The user will be brought back to the Selection page where they can choose to log out. After they press log out, they can press the exit button which will be displayed on the Login Page.

### 5.9 Manager Login

## Manager Login

## Step 1: Login Page



If manager does not wish to continue, he/she can exit the program.

The manager must add a valid username and password. The username and password should be of a manager.

The manager can clear the contents if he/she is not sure if they entered the correct information.

After you are sure about the contents that you entered, you must press the login button to proceed to the next step.

The manager must enter the correct details. If they enter staff details, they won't be able to access the report. After they enter the details, they must press the 'Login' button to proceed.

### 5.10    Manager Selection Page

This is the manager username. Shows who has logged in.

This is to add a new booking.

## Step 2: Manager Selection Page

The manager can choose to log out without proceeding.
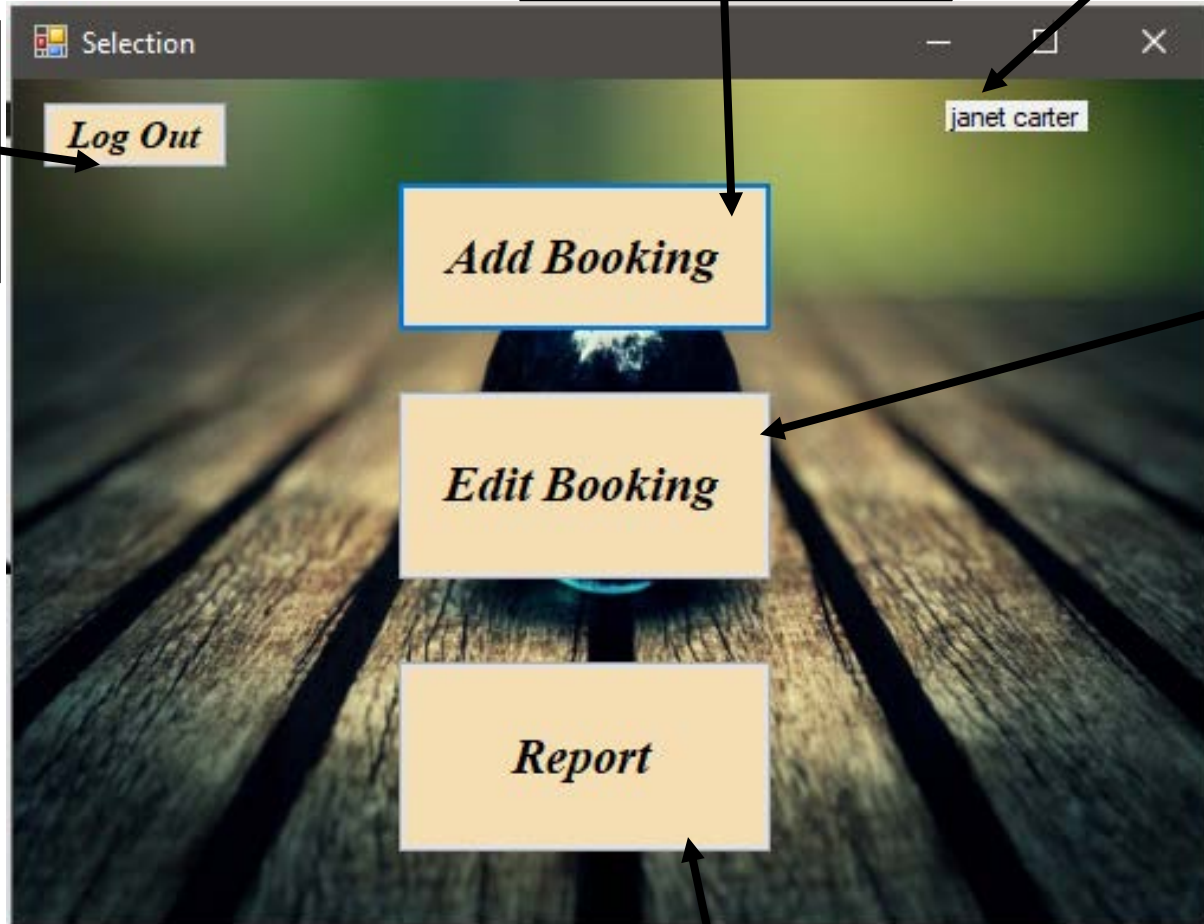
This is to edit a booking that has been made before and needs modifying.

This is to view the report.

This is the selection page for the manager. Most of the things are the same except the report. The report is only available to the managers. The staff cannot view the report when they login. To view the report, the manager must press on the 'Report' button.

### 5.11        Reservation Report

**Step 3: Reservation Report**

The manager can choose to print the report if they want.
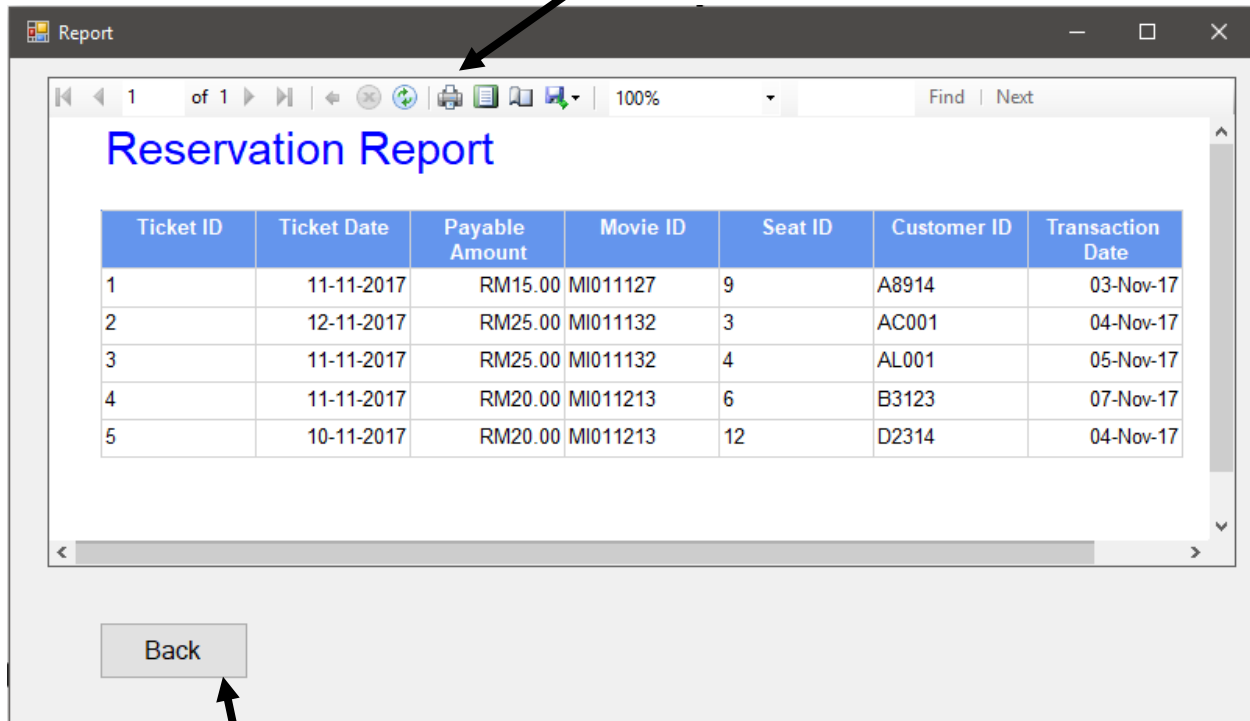


After the Manager has viewed the report they can press the back button to return.

This is the reservation report. Only the Manager has can view it. If they choose to, they can print this report so that they can also have a hard copy of it. If there are many records, the Manager can search for a specific record if they want on the top right. After the manager finishes to view the report, he/she can press the 'Back' button which will take them back to the 'Selection' page. From there they can choose to log out.

### 5.12      Closing the Application

**Step 4: Exit.**
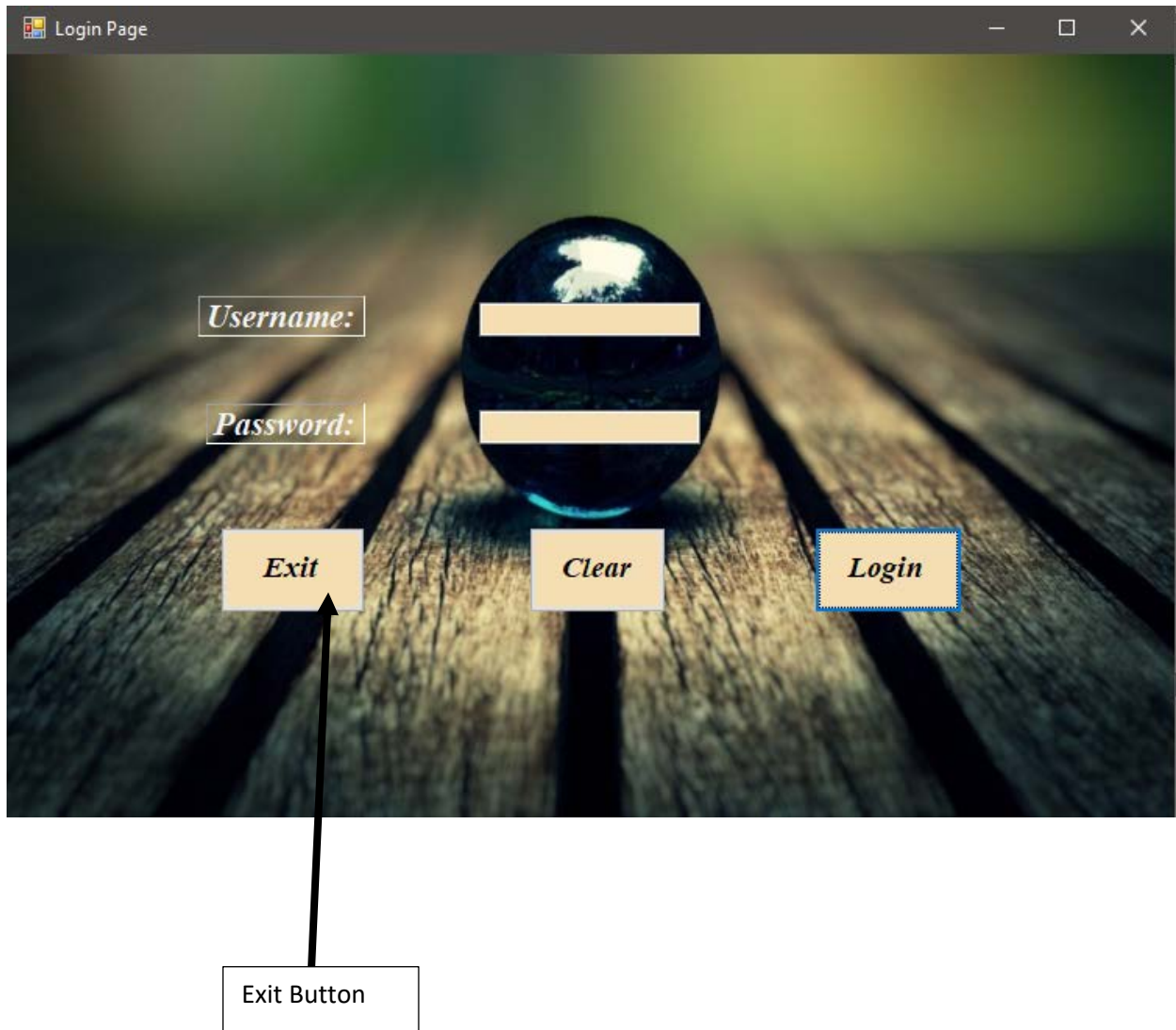


Exit Button

After the user presses the Log out button in the selection screen, it brings them back to the Login page. Here they just have to press the Exit button to get out from the program.

# 6.0      Critical Assessment

The main strength of our new system is how dynamic it is, it adapts to the changes of data inside the database very well. This means any changes to the database will be automatically applied to the system when it launches. Another strength of the system is how navigable it is, users are able to navigate through each window easily using buttons. Furthermore, our system is fairly simple to use, all the booking functions are straight forward and easy to understand as well as the payment options, so this will result in easier and quicker booking session for customers and employees.

Meanwhile, the main weakness of our system is the lack of visualization of seats booking for customers and staffs. Staffs musts manually look into the reserved seats in the system to determine if the seats have been booked which slows down reservation process.  Thus, our system can be improved in the future by incorporating picture boxes or any other forms of visualization of the seats booked and available to make the process of reservation much more simpler and quicker.

# 7.0      Conclusion

At last, this movie ticketing system provides many benefits to the user and it is very helpful. Our system enables both staff and Managers to login separately. It also has privacy, so Staff cannot access some details that managers can like the Reservation report. Only the Managers have the authority to access that. The system allows users to make new reservations and edit reservations very easily. This system is not very complex because later, it is harder for users to use it. It just has a few steps to book a ticket. We believe that our system is more developed and easier to use compared to other systems because it requires few steps to book a ticket or edit a reservation.

## 8.0      Work Breakdown Structure

| Students name / Tasks | Wahid | Maharshi | Kenzo |
|---|---|---|---|
| Program solution | | | |
| Coding | Wahid | Maharshi | Kenzo |
| Designing | Wahid | Maharshi | Kenzo |
| Documentation | | | |
| Introduction | | Maharshi | |
| Abstract | | Maharshi | |
| Storyboard & Output Screen | Wahid | | |
| User Manual | Wahid | Maharshi | Kenzo |
| Critical Assessment | | | Kenzo |
| Conclusion | | | Kenzo |
| Work Breakdown | Wahid | | |
| Reference | Wahid | Maharshi | Kenzo |
| Signature: | | | |

# 9.0       References

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21 December 2013. Available from: https://www.youtube.com/watch?v=Cxy-Rsb403A&t=947s.
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