

Introduction

During my 3rd year undergraduate time, a stand alone booking application based on file handling using java as the programming language was designed for our group project under the course “Advanced programming techniques”. My contribution to the project is included here.

Features and functionalities

- New Booking.

Based on the type of room selected, customer details entry panels are getting activated. Customer can search available rooms during the booking period and select the preference.

Once all the necessary fields are completed by the customer and click on the button “Book”, a confirmation will be asked whether to continue with booking or not. Based on the confirmation booking will be done and a passcode will be generated to be used with further modifications related to the booking completed.

- Update Booking.
Given the relevant correct passcode for booking and NIC of the customer as credentials, customer information provided can be changed.
- Extend Booking.
Given the relevant correct passcode for booking and NIC of the customer as credentials, period of booking can be extended based on the availability of the room for desired dates.

Future Features

- Connect to a database rather than based on file handling.
- GUI improvements.
- Keeping entry fields for only one customer details.

What the application looks like

When customer checked available rooms and a room is picked under the preferred category and necessary fields are completed for a new booking.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

Choose room type :

Luxury Single Room

Deluxe Single Room

Luxury Double Room

Deluxe Double Room

Luxury Single Room

Check in : Jan 29, 2022

Check Out : Jan 30, 2022

Check Room Availability

Select Room No : 6

Customer_1 Details

Name Anne Fernando

NIC 974253646v

Gender ☒ Male ☐ Female

Address Moratuwa,Colombo

Contact No. 0771342435

Customer_2 Details

Name

NIC

Gender ☐ Male ☐ Female

Address

Contact No.

BOOK

CLEAR

Home

When clicked on the button “BOOK”, asking for confirmation.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

Choose room type :

Luxury Single Room

Deluxe Single Room

Luxury Double Room

Deluxe Double Room

Luxury Single Room

Check in : Jan 29, 2022

Check Out : Jan 30, 2022

Check Room Availability

Select Room No : 6

Customer_1 Details

Name Anne Fernando

NIC 974253646v

Gender ☒ Male ☐ Female

Address Moratuwa,Colombo

Contact No. 0771342435

Customer_2 Details

Name

NIC

Gender ☐ Male ☐ Female

Address

Contact No.

BOOK

CLEAR

Home

Confirmation

?

Do you want to continue with booking ?

Yes No

Once booking is confirmed and completed, a passcode will be given.

Booking Section

Booking

☐ New Booking ☒ Update Booking Information ☐ Extend Booking

Choose room type :

Check in : Jan 29, 2022

Customer_1 Details

Name: Anne Fernando
NIC: 974253646v
Gender: ☒ Male ☐ Female
Address: Moratuwa, Colombo
Contact No: 0771342435

Booking Success

Room no - 6 is successfully booked by Anne Fernando from 2022-01-29 to 2022-01-30 .
Passcode for your booking - 50
Remember this passcode for further modifications with your booking completed !

To update customer details correct passcode and customer NIC should be provided as credentials as follows and click on continue.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

NIC : 974253646

Passcode : ..

Continue

Check in :

Check Out :

Customer_1 Details

Name

NIC

Gender

Male

Female

Address

Contact No.

Customer_2 Details

Name

NIC

Gender

Male

Female

Address

Contact No.

UPDATE

CLEAR

Home

Then entered customer detilas will be displayed for modifications.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

Room no : 6

Check in : Jan 29, 2022

Check Out : Jan 30, 2022

Customer_1 Details

NameAnne Fernando

NIC974253646v

Gender

Male

Female

AddressMoratuwa,Colombo

Contact No.0771342435

Customer_2 Details

Name

NIC

Gender

Male

Female

Address

Contact No.

UPDATE

CLEAR

Home

When clicked on “UPDATE” asking for confirmation.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

Room no : 6

Check in : Jan 29, 2022

Check Out : Jan 30, 2022

Customer_1 Details

NameAnne Fernando

NIC974253646v

Gender

Male

Female

AddressMoratuwa,Maligawa Rd,Colombo

Contact No.0771342435

Customer_2 Details

Name

NIC

Gender

Male

Female

Address

Contact No.

UPDATE

CLEAR

Home

Confirmation

?

Do you want to continue with updating your booking details ?

Yes

No

When update is successful.

Booking Section

Booking

☒ New Booking ☒ Update Booking Information ☐ Extend Booking

Room no : 6

Check in : Jan 29, 2020

Booking Details Updated

Booking details for Luxury Single Room, number - 6 are successfully updated !

OK

Customer_1 Details

Name: Anne Fernando

NIC: 974253646v

Gender: ☒ Male ☐ Female

Address: Moratuwa, Maligawa Rd, Colombo

Contact No.: 0771342435

Customer_2 Details

Name:

NIC:

Gender: ☐ Male ☐ Female

Address:

Contact No.:

UPDATE CLEAR Home

To confirm by viewing whether it is updated as expected. Here the customer address is updated.

Booking Section

Booking

☒ New Booking

☐ Update Booking Information

☒ Extend Booking

Room no : 6

Check in : Jan 29, 2022

Check Out : Jan 30, 2022

Customer_1 Details

Name

Anne Fernando

NIC

974253646v

Gender

☒ Male

☒ Female

Address

Moratuwa,Maligawa Rd,Colombo

Contact No.

0771342435

Customer_2 Details

Name

NIC

Gender

☐ Male

☐ Female

Address

Contact No.

UPDATE

CLEAR

Home

To extend the booking, correct passcode and customer NIC should be provided as credentials as follows and click on continue.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

NIC :

974253646

Passcode :

..

Continue

Scheduled Check Out :

New Check Out :

BOOK

CANCEL

Home

Then the scheduled check out and the newly suggested check out which is the date ahead of scheduled check out will be displayed.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

Room no : 6

Scheduled Check Out : Jan 30,2022

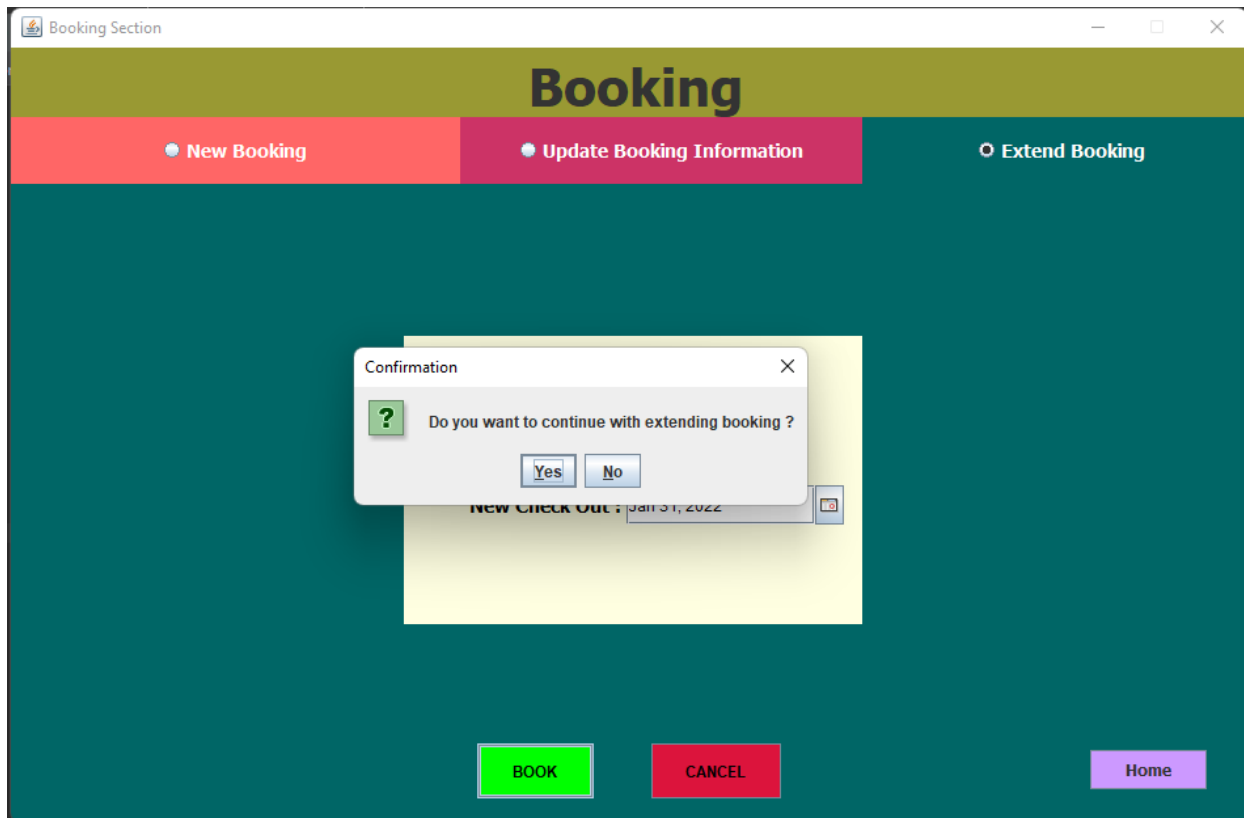
New Check Out : Jan 31, 2022

BOOK

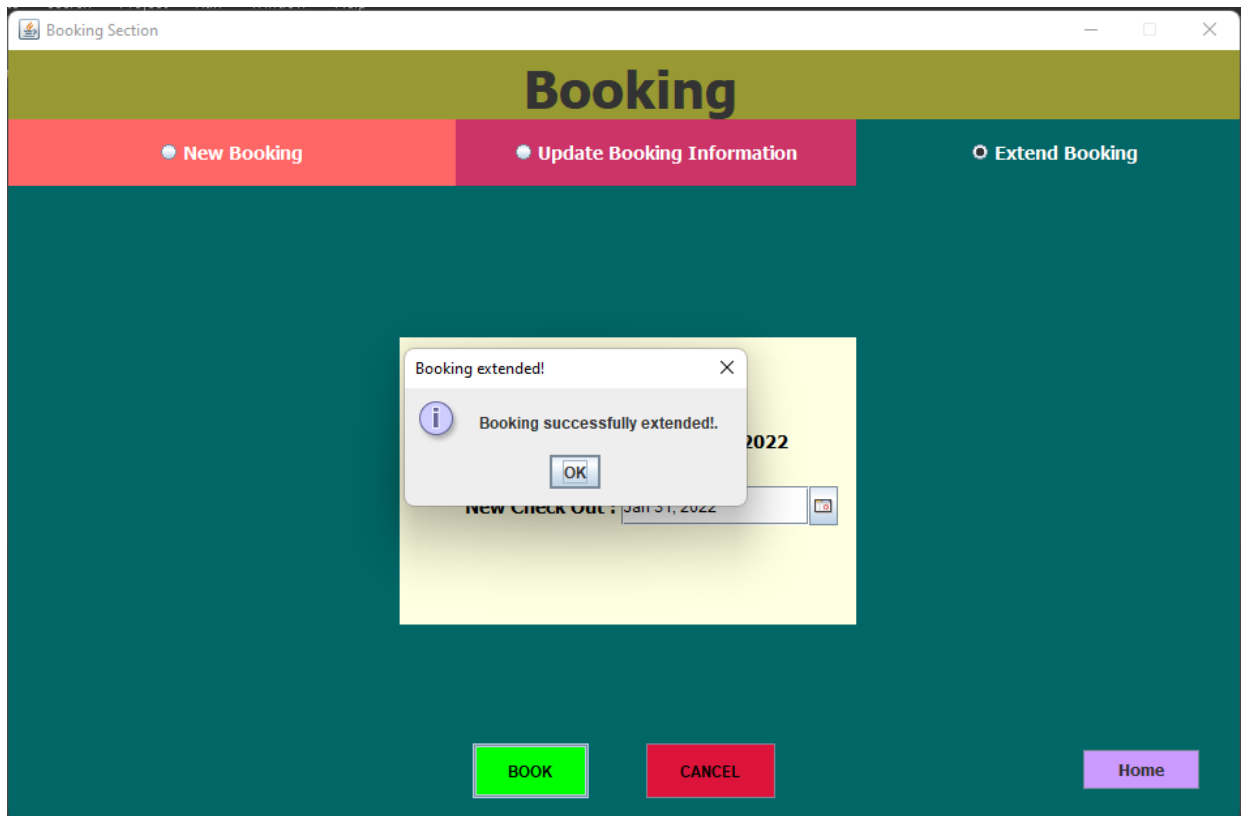
CANCEL

Home

When clicked on “BOOK” , asking for confirmation.



If room is available extending happen.



To check if extending is successful can view the details.

The screenshot shows a web application window titled "Booking Section". The main heading is "Booking". Below the heading, there are three tabs: "New Booking", "Update Booking Information", and "Extend Booking". The "Extend Booking" tab is currently selected. In the center of the page, there is a yellow box containing the following information:

- Room no : 6
- Scheduled Check Out : Jan 31,2022
- New Check Out : Feb 1, 2022

At the bottom of the page, there are three buttons: "BOOK" (green), "CANCEL" (red), and "Home" (purple).

If room is not available during extending dates, unavailability will be notified as follows.

Booking Section

Booking

New Booking

Update Booking Information

Extend Booking

NIC :

Passcode :

Continue

Room Unavailable!

i

Room no. 6 is unavailable for the dates checked.

OK

BOOK

CANCEL

Home