System Requirements for "Bus Reservation System"

First the login screen is displayed, and the user should login to their account by entering the username and password.
If they are valid, they will be redirected to the main menu. Otherwise, they will be asked to re-enter them.
In the main menu, there are 3 options:

> 1-Show bus list & book
>
> 2-Cancel
> 3-Logout

The user is asked to choose the desired option ID. If the option ID is invalid, the user will be asked to re-enter it.

❖ **If the user chose option 1 (Show bus list & book):**
If the user has exceeded the number of maximum reservations, a message will be displayed informing them of that and they won't be able to book any trips.
Otherwise, a list of all the available buses specifying bus ID, Date, pickup time, pickup point, arrival time, arrival point, total seats and available seats will be shown.
The user will be asked if he would like to book any of them.
If the user wanted to book a trip, he will be asked to enter the bus ID.
  - If they chose an invalid ID he will be asked to re-enter the bus ID.
  - If they choose a bus that has no available seats left, a message will be displayed informing them that the bus is fully booked, and they will be asked to choose another bus.
The user will then be asked to enter the number of seats they would like to book.
  - If the number of seats is invalid (zero or negative), a message will be displayed informing them of that and asking them to re-enter the number of seats.
  - If the number of seats exceeds the available seats, a message will be displayed informing them of that and asking them to re-enter the number of seats.

If the booking was successful, a message will be displayed thanking the user for

booking and displaying the reservation id

❖ **If the user chose option 2 (Cancel):**
If the user didn't make any reservations, a message will be displayed informing them of that.
Otherwise, a list of all the reservations showing the reservation ID, bus ID and number of seats booked will be shown.
The user will be asked to enter the reservation ID of the trip he would like to cancel.
 If the reservation ID was invalid, a message will be shown asking the user to re-enter it.

Otherwise, a message will be displayed informing him that his cancellation was successful.

After finishing any operation, the user will be asked if they want to go back to the main menu.

If they didn't want to go back, the application will exit.

Otherwise, they will be redirected to the main menu.

❖ **If the user chose option 3 (Logout):**
The user will be redirected to the login screen where he is asked to enter the username and password.