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### Problem Solving for Online Bus Reservation System.

W3H :

PROBLEM STATEMENT : ONLINE BUS RESERVATION SYSTEM	
WHAT ? 1	HOW ? 2
<p>1)What are the functionality and Modules Required?</p> <p>ANS:</p> <p>1] ADMIN</p> <p>a)Add the bus Bus No,Bus Name,Route,Type(AC/Non-AC)</p> <p>b)Update the bus</p> <p>c)Delete the bus</p> <p>d)View /View all the bus</p> <p>e)Add/Delete/Update/View Fare Details</p> <p>f)Add/Delete/Update/View Customer Details</p> <p>2]USER</p> <p>a)Register</p> <p>b&gt;Login</p> <p>c)Search a bus</p> <p>d)Book a bus</p> <p>e)Cancel a bus</p> <p>f)Payment</p> <p>g)Review</p> <p>h)Travel History</p> <p>2) You need a mobile application or web application ?</p> <p>ANS : Both</p> <p>3)What is the time limit you give to us to complete this project ?</p> <p>ANS : 4-6 Month</p>	<p>Admin :</p> <p>1. In the admin panel, in the bus details, use a text box for the bus id and the delete,add,update,view,fare options.</p> <p>2. In the admin panel, in the bus details section, there is a drop down box for bus id with delete,add,update,view,fare options.</p> <p>3. In the admin panel, go to bus details and look for the delete,add, update,view,fare option.</p> <p>4. In fare, enter the route in the text bar and select the add, delete, or update option.</p> <p>5. Select the source and destination add,delete,update option in fare.</p> <p>6. In customer details, enter the customer id into the text box and select add, update, delete, or view.</p> <p>7. In customer details, there is a drop down menu with the options add,update, delete, and view.</p> <p>8. In customer details listing with customer id with add,update delete,view option.</p> <p>9. In driver or cleaner details with id in text box with add, update,delete,view option.</p> <p>10. In driver or cleaner details with id in drop down with add, update,delete,view option.</p> <p>11. In driver or cleaner details listing with id add,delete,update, view option.</p> <p>User :</p> <p>12. User page after login search by source,destination and time and listing the available bus by time.</p> <p>13. User page after login search by bus name and recent route.</p> <p>14. User page after login search bar for destination and time and display the available buses.</p> <p>15. Choose the bus for travel and select the book ticket option to book.</p> <p>16. Choose the bus and click it the full details of travel route time after book ticket.</p> <p>17. Provide the review link for the user to give review about the travel.</p> <p>18. Provide the review option after the book ticket in the app itself.</p> <p>19. Display the tracking by using the location access and show the traveling area.</p> <p>20. Displaying the recent histroy from the recent button in separate.</p> <p>21. Recent histroy under the search bars.</p>

WHY ? 3	WHY NOT ? 4
<b>Admin :</b> 1. In admin panel in bus details it list the bus details by name and route means it will easy that it is to be delete or update. 2. In fare selecting will be easy to choose the source and destination and enter the fare details. 3. In customer details listing will be easier to delete and to add, delete and view. 4. In driver details listing with id it is easy to find the driver by name, area to delete,update and view. <b>User :</b> 5. User can directly focus on which buses are available by that date and choose the time by their own. 6. Booking ticket after seeing the full details that the user will get clarify that they can book this bus or other buses. 7. Review option in the app it will store with customer id and easy to show the other about our reviews. 8. Recent histroy will be in private after clicking show only display the recent bookings	<b>Admin :</b> 1. In admin panel in bus details we can't remember every bus id by our own. 2. In select down it doesn't show the details from outside to delete we need to go view after delete. 3. In fare details entering the source and destination by remembering the area is difficult. 4. Entering customer details and selecting the customer only using customer id is difficult. 5. Driver details entering and selecting only using id is difficult. <b>User :</b> 6. Searching bus by name is more complicated and destination only also difficult. 7. Booking bus ticket without seeing full detail of bus is not more efficient. 8. Using link for review in not sufficient and it needs separate phase. 9. Displaying recent histroy in home is not private.

## ALGORITHM :

### Algorithm for Online Bus Reservation System

**Step 1 :** Start

**Step 2 :** Create a registration page and login page.

**Step 3 :** After login with admin credentials create an admin page with three options for pages bus details,customer details and driver & cleaner details.

**Step 4 :** In the bus details page it has the list of bus id with details and delete,update,view,fare and add separate option to add new bus details.

**Step 5 :** In the customer details page it has the list of customer id with details and delete,update,view and add separate option to add new customer details.

**Step 6 :** In the driver & cleaner details page it has the list of driver id with details and delete,update,view and add separate option to add new driver details.

**Step 7 :** After login with user credentials create a user page with source,destination drop down with location.

**Step 8:** Under that date selection button and separate option for recent history.

**Step 9:** After this page the bus listing page with the source,destination and date given by the user.

**Step 10 :** After selecting the bus from that page it will display the details of travel route,time,reviews and book ticket option.

**Step 11:** After selecting the book ticket option it displays the payment option upi and card.

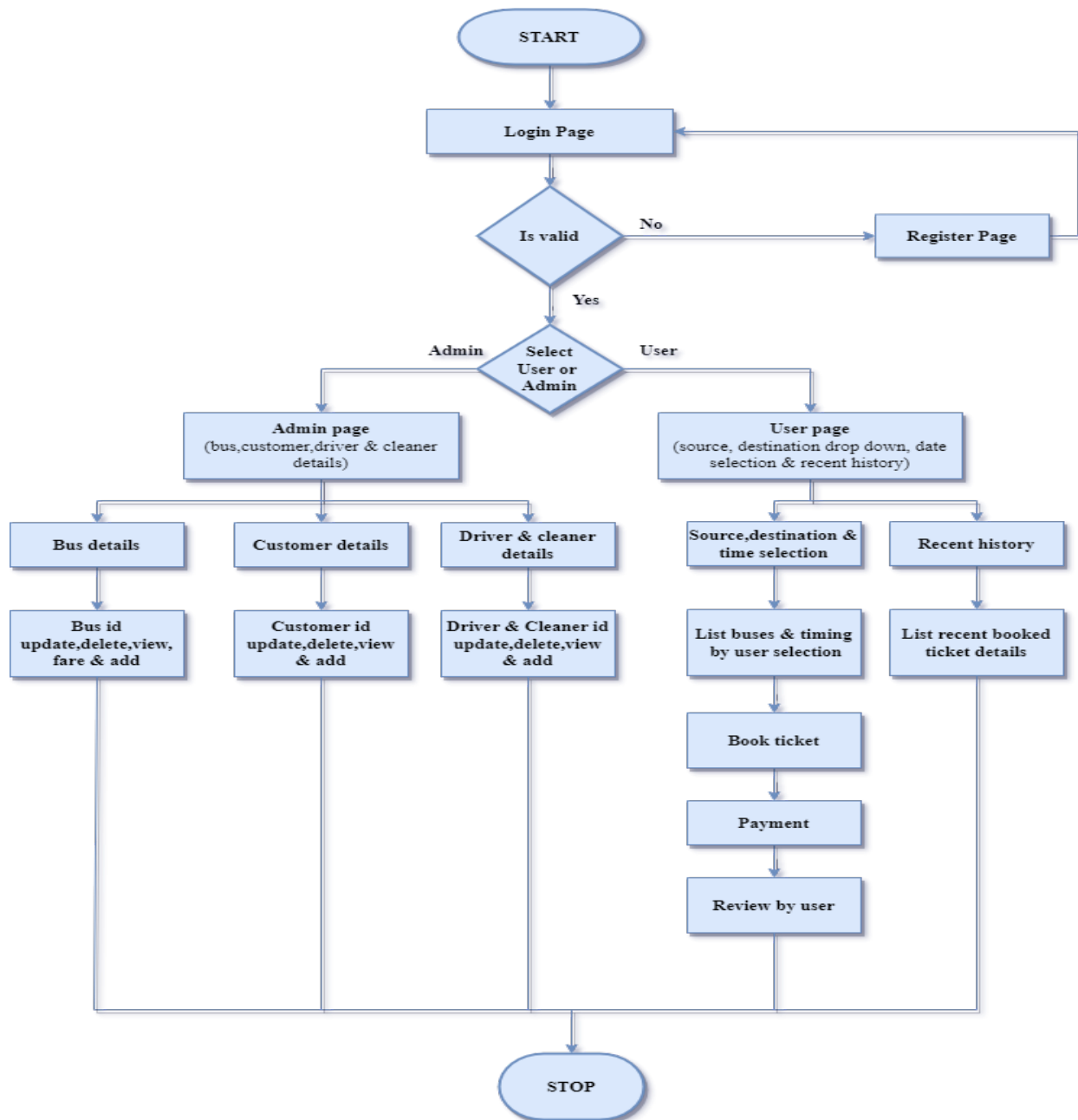
**Step 12 :** After booking a ticket it displays the review page to get review for the app and also for the bus travel after the user completed the travel.

**Step 13 :** In selection of recent history in the home page it displays the recent booked tickets.

**Step 14 :** Stop.

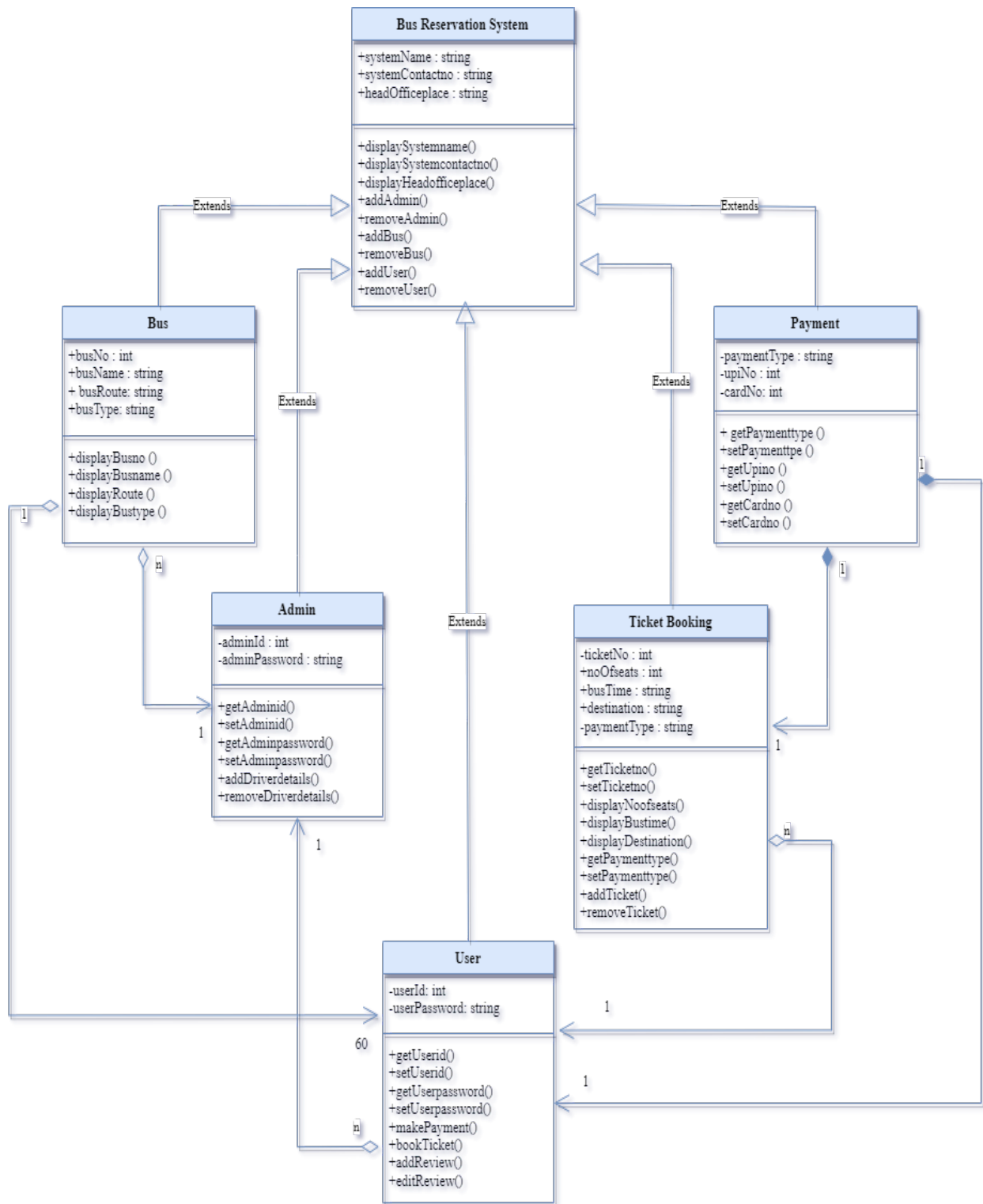
## FLOWCHART :

### Flowchart for Online Bus Reservation System



## UML DIAGRAMS :

### CLASS DIAGRAM :

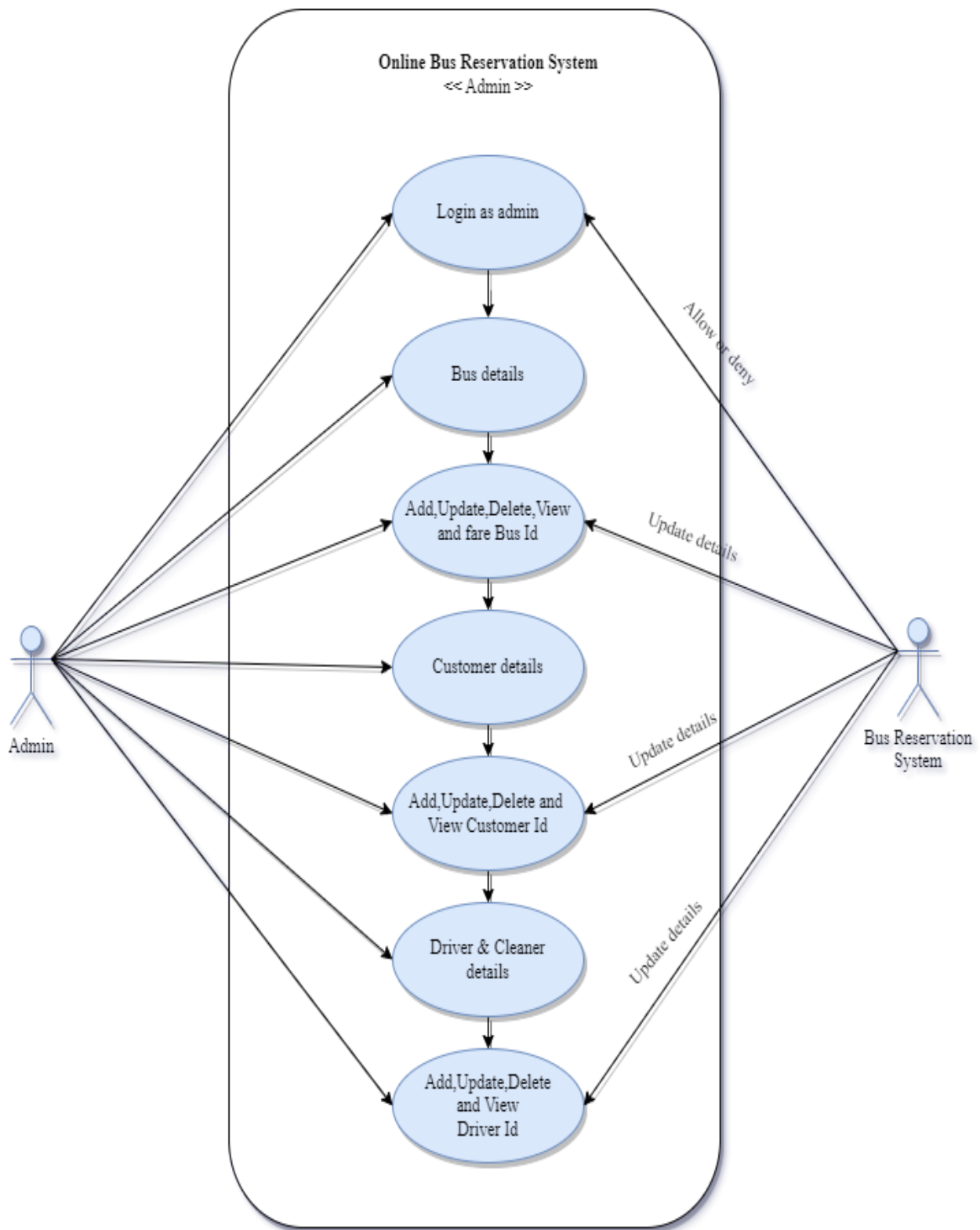


## USE CASE DIAGRAM :

### Use Case diagram for User :

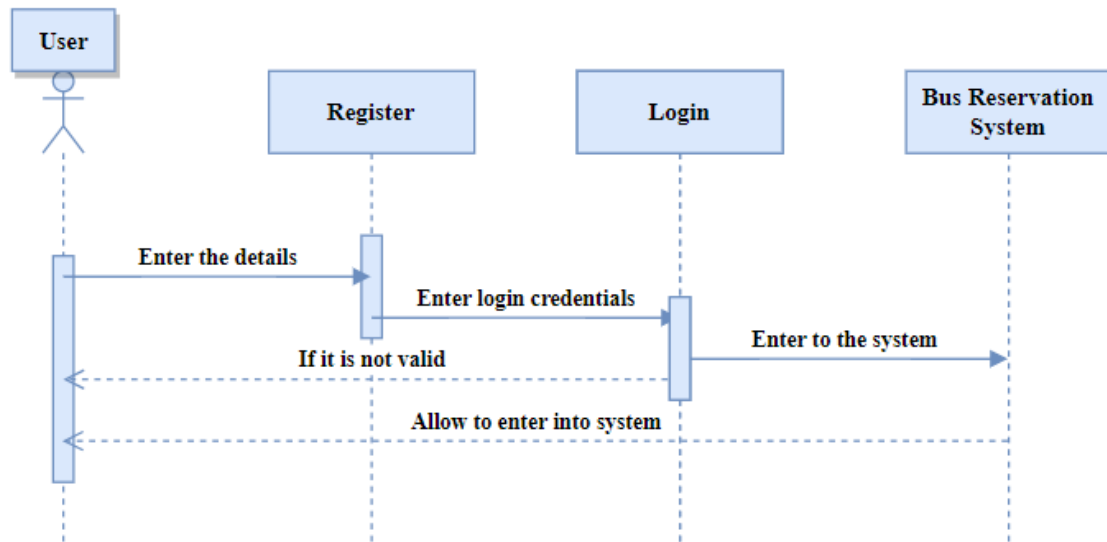


### Use Case Diagram for Admin :

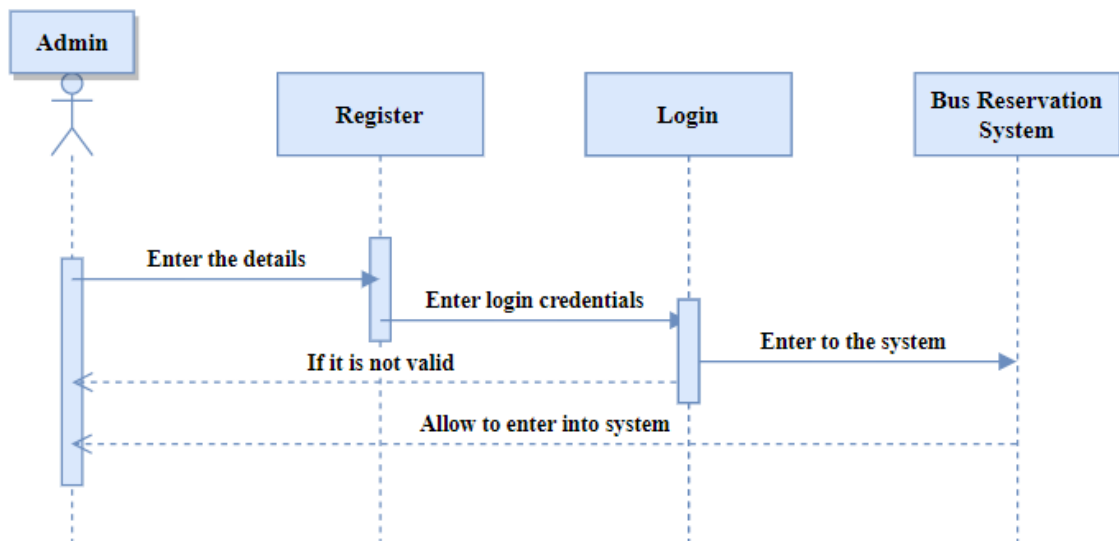


## SEQUENCE DIAGRAMS :

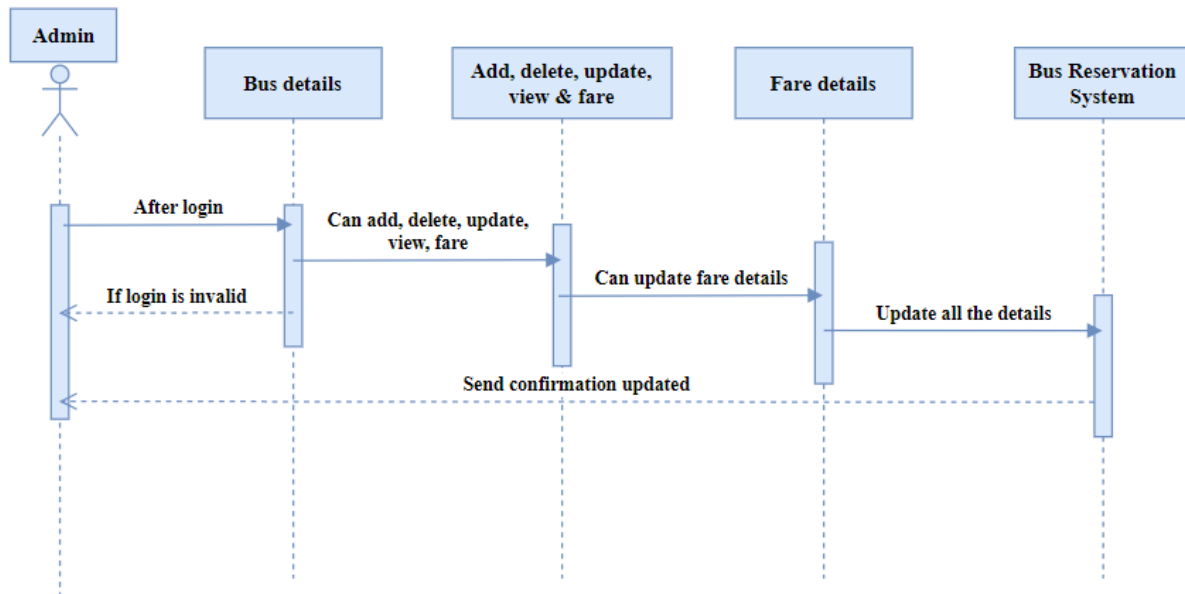
### Sequence Diagram for User Log in :



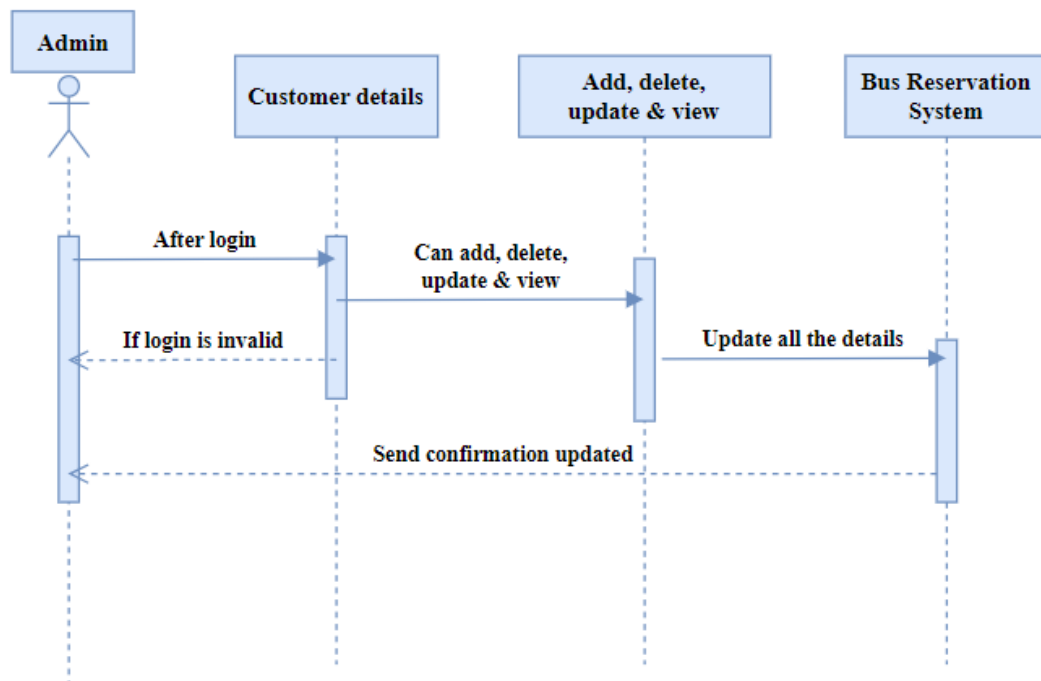
### Sequence Diagram for Admin Log in :



### Sequence Diagram for Admin Operations - Bus Details :

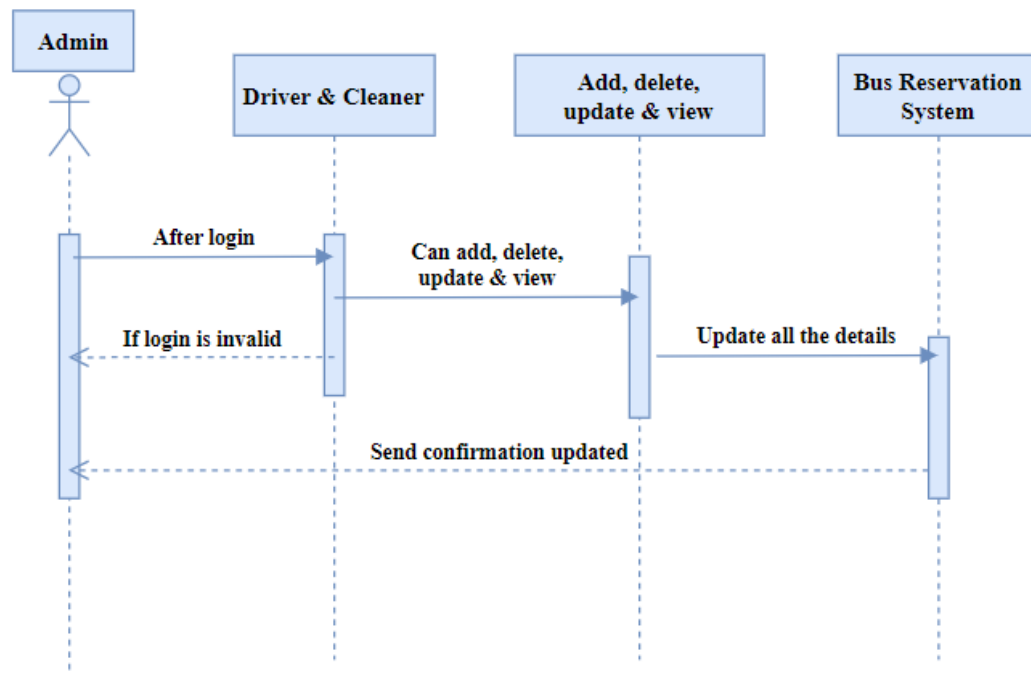


### Sequence Diagram for Admin Operations - Customer Details :





### Sequence Diagram for Admin Operations - Driver and Cleaner Details :



### Sequence Diagram for Ticket Booking :

