POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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“THIRD WHEEL PARKING LOT SYSTEM DOCUMENTATION”

In Partial Fulfilment of the Requirements in the Major Subject

Modeling and Simulation

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PSEUDOCODE

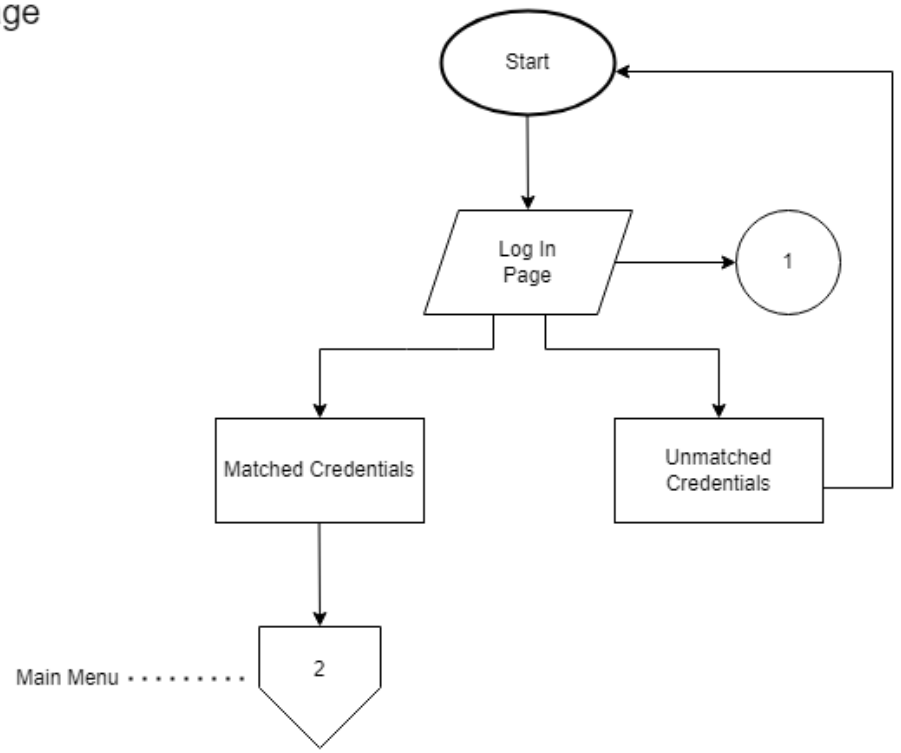
```
ALGORITHM Parking
    ALGORITHM Login_Frame
        INPUT username
        INPUT password
        IF (username && password is TRUE) THEN
            CALL main_menu
        END IF
    END Login_Frame
    ALGORITHM main_menu
        PRINT menu_commands
        IF button 1 is pressed THEN
            CALL Park_Frame
        IF button 2 is pressed THEN
            CALL Unpark_Frame
        IF button 3 is pressed THEN
            CALL Logs_Frame
        IF button 4 is pressed THEN
            CALL Login_Frame
        END menu_commands
        END IF
    END main_menu
    ALGORITHM Park_Frame
        PRINT 101
        PRINT 102
        PRINT 103
        PRINT 104
        PRINT 105
        PRINT 201
        PRINT 202
        PRINT 203
```

```
        PRINT 204
        PRINT 205
        PRINT 301
        PRINT 302
        PRINT 303
        PRINT 304
        PRINT 305
        INPUT parklotnum
        INPUT timestamp
        OUTPUT parklotnum
        OUTPUT timestamp
        PRINT menu_commands
        IF button 1 is pressed THEN
                Successfully Parked
                CALL main_menu
        IF button 2 is pressed then
                CALL main_menu
        END IF
END Park_Frame
ALGORITHM Unpark_Frame
        PRINT 101
        PRINT 102
        PRINT 103
        PRINT 104
        PRINT 105
        PRINT 201
        PRINT 202
        PRINT 203
        PRINT 204
        PRINT 205
        PRINT 301
        PRINT 302
        PRINT 303
```

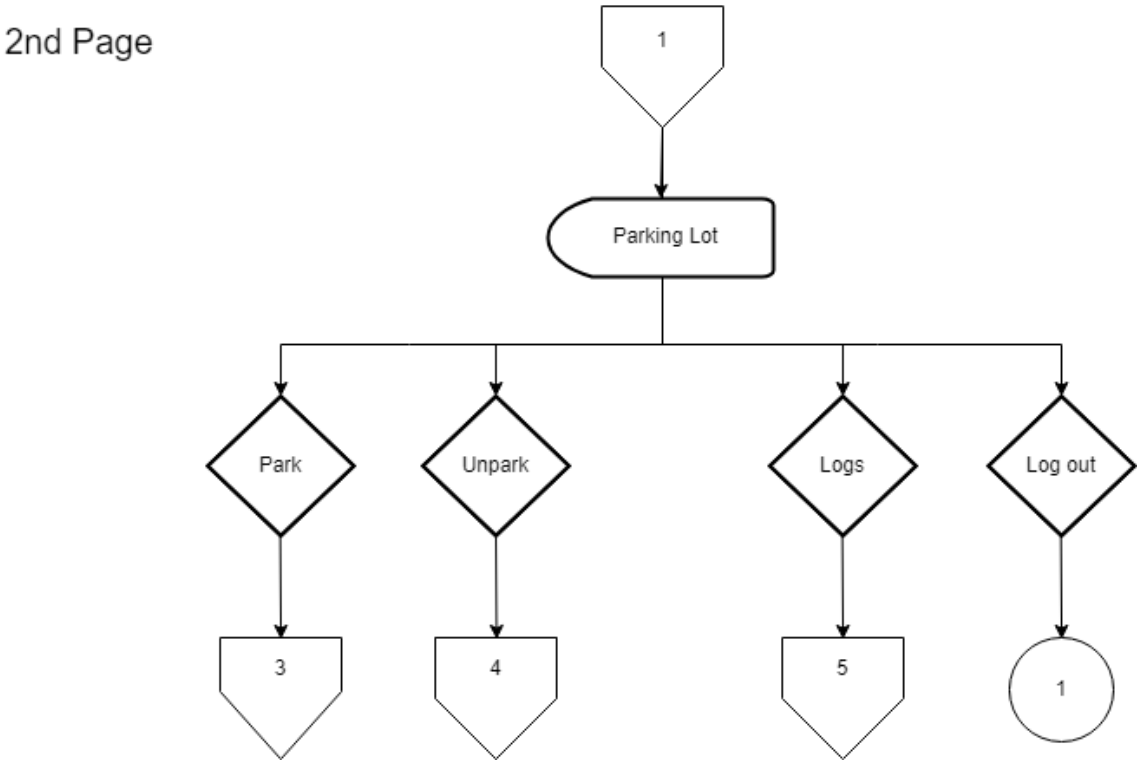
```
            PRINT 304
            PRINT 305
            INPUT parklotnum
            INPUT timestamp
            OUTPUT parklotnum
            OUTPUT timestamp
            PRINT menu_commands
            IF button 1 is pressed THEN
                  Successfully Unparked
                  CALL main_menu
            IF button 2 is pressed THEN
                  CALL main_menu
            END IF
      END Park_Frame
      ALGORITHM Logs_Frame
            OUTPUT Table
            IF Bar_Graph
                  OUTPUT Bar_Graph
            IF Table
                  OUTPUT Table
            PRINT menu_commands
            IF button 1 is pressed THEN
                  CALL main_menu
            IF button 2 is pressed THEN
                  CALL Park_Frame
            IF button 3 is pressed THen
                  CALL Unpark_Frame
            IF button 4 is pressed THEN
                  CALL Login_Frame
            END IF
      END Logs_Frame
END Parking
```

FLOWCHART

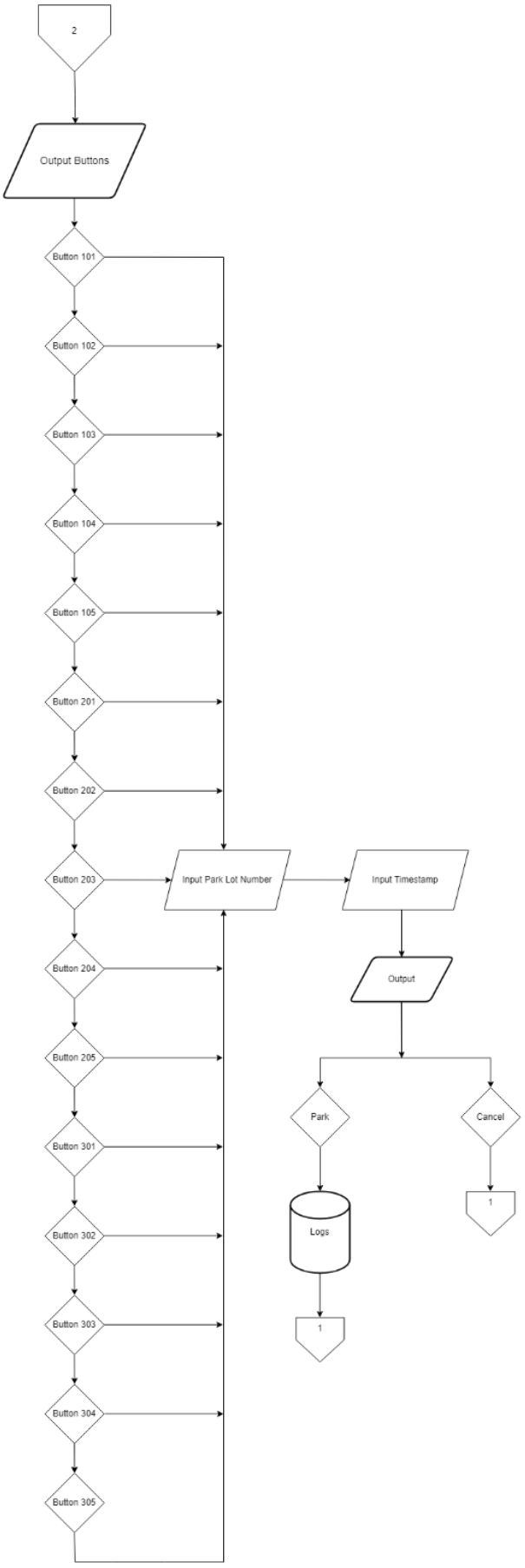
1st Page



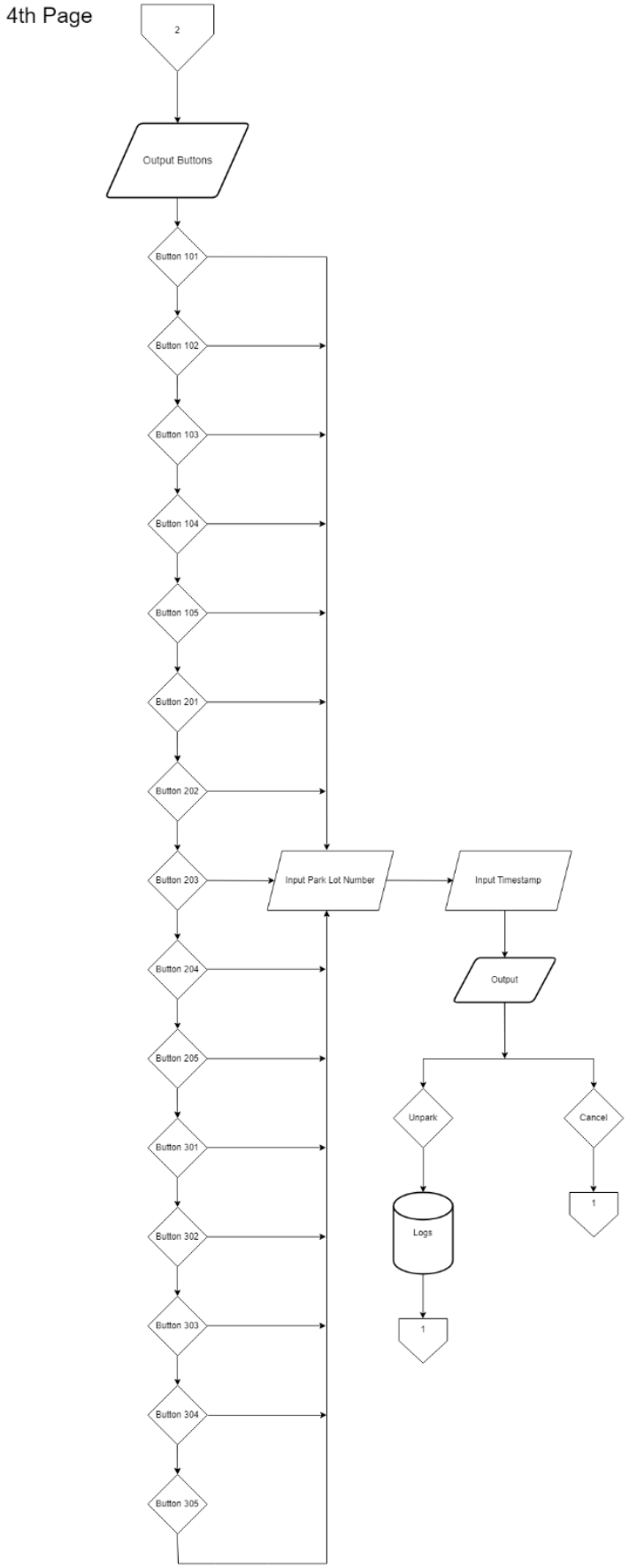
2nd Page



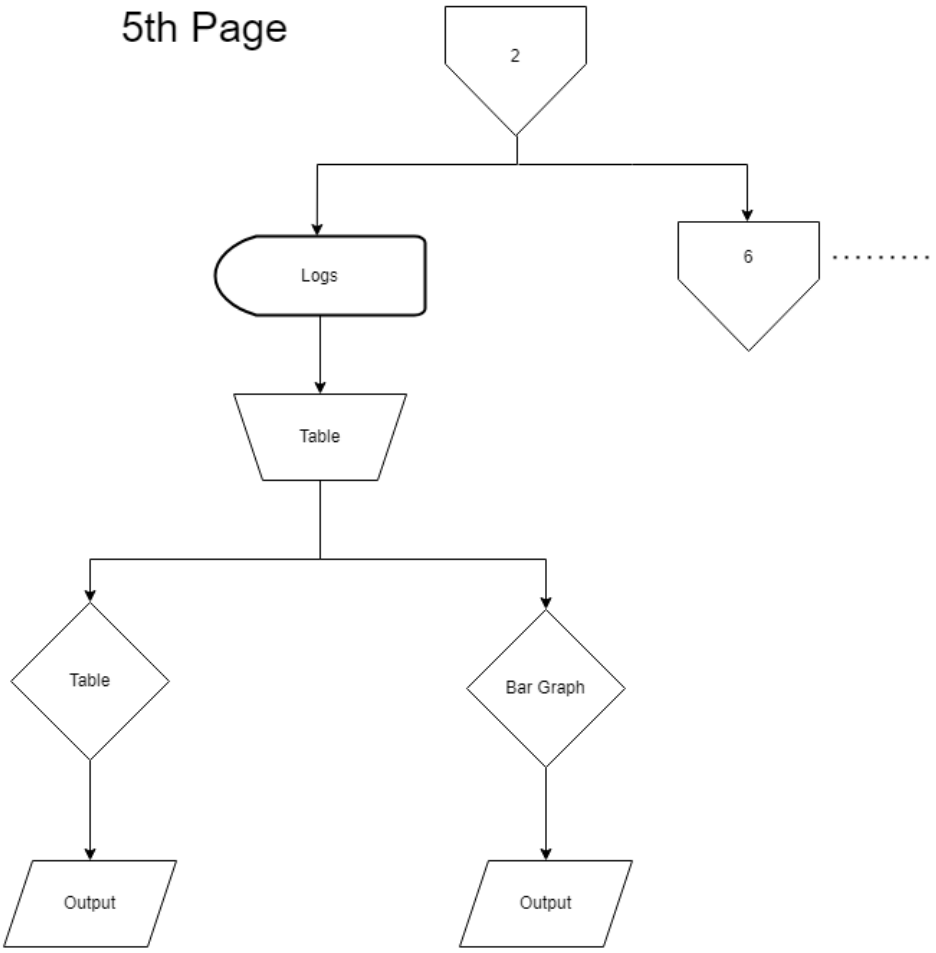
3rd Page


2
Output Buttons
Button 101
Button 102
Button 103
Button 104
Button 105
Button 201
Button 202
Button 203
Input Park Lot Number
Input Timestamp
Output
Button 204
Button 205
Button 301
Button 302
Button 303
Button 304
Button 305
Park
Cancel
Logs
1
1

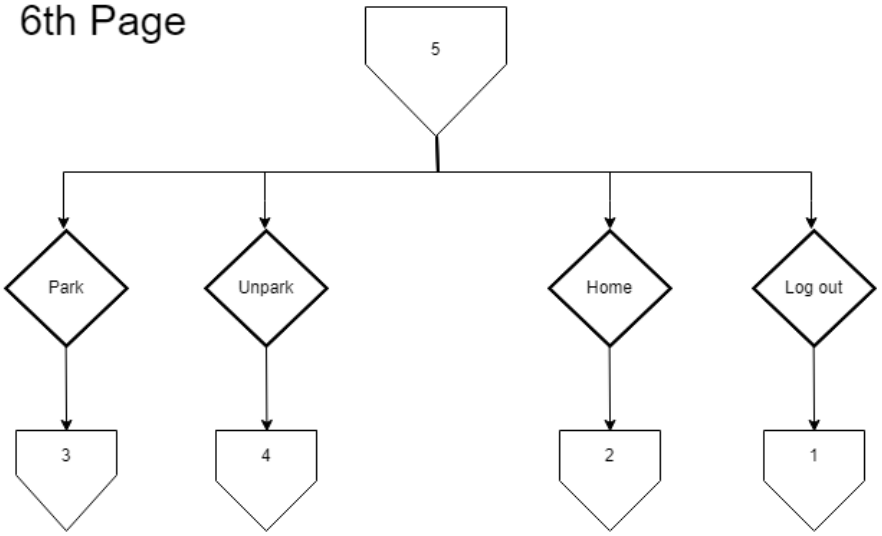
4th Page


2
Output Buttons
Button 101
Button 102
Button 103
Button 104
Button 105
Button 201
Button 202
Button 203
Input Park Lot Number
Input Timestamp
Button 204
Output
Button 205
Unpark
Cancel
Button 301
Logs
1
Button 302
Button 303
1
Button 304
Button 305

5th Page



6th Page

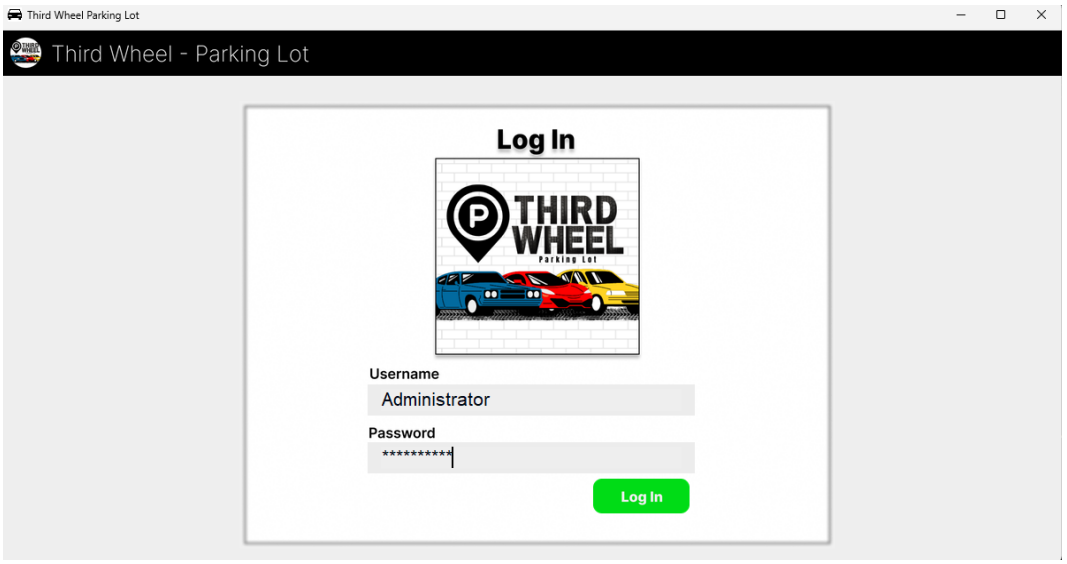


INSTRUCTION MANUAL

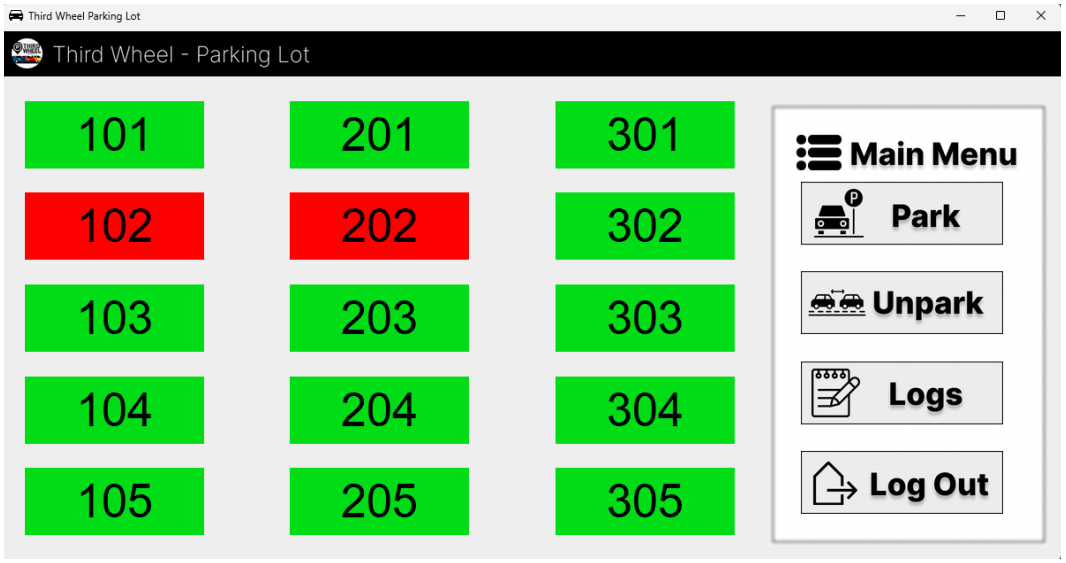
PUP Parking Lot is an application designed to serve its future clients and users to help them park easily having minimal contact. Its target clients are those who own parking lots like malls that are being rented by consumers. The transactions within the application will be recorded inside a log function where users can see the application's documentation that is updated every time there is a change in the system.

I. Logging In

Enter the Username and Password then click Login.

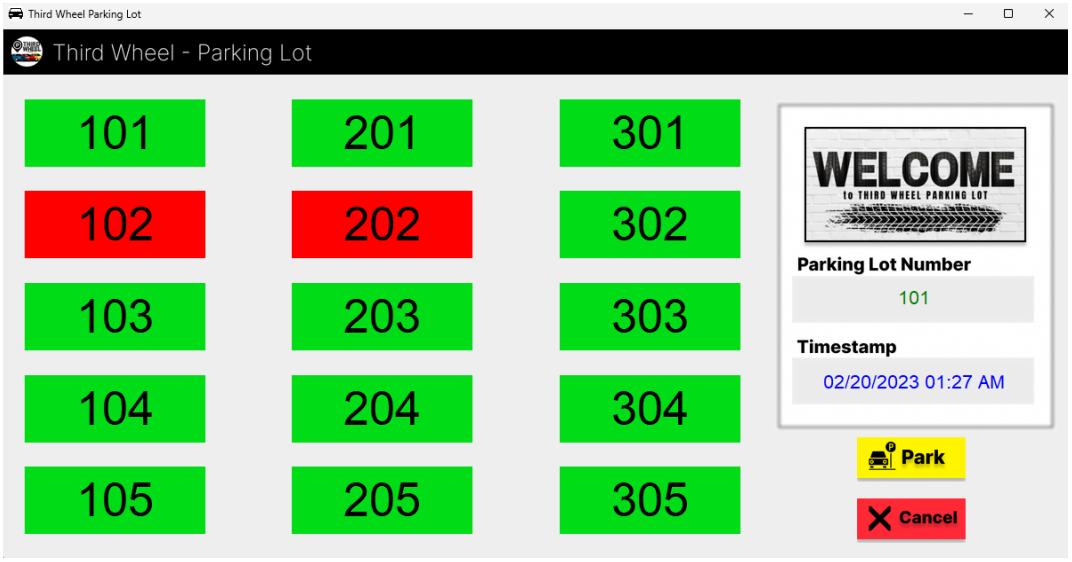


II. Interface



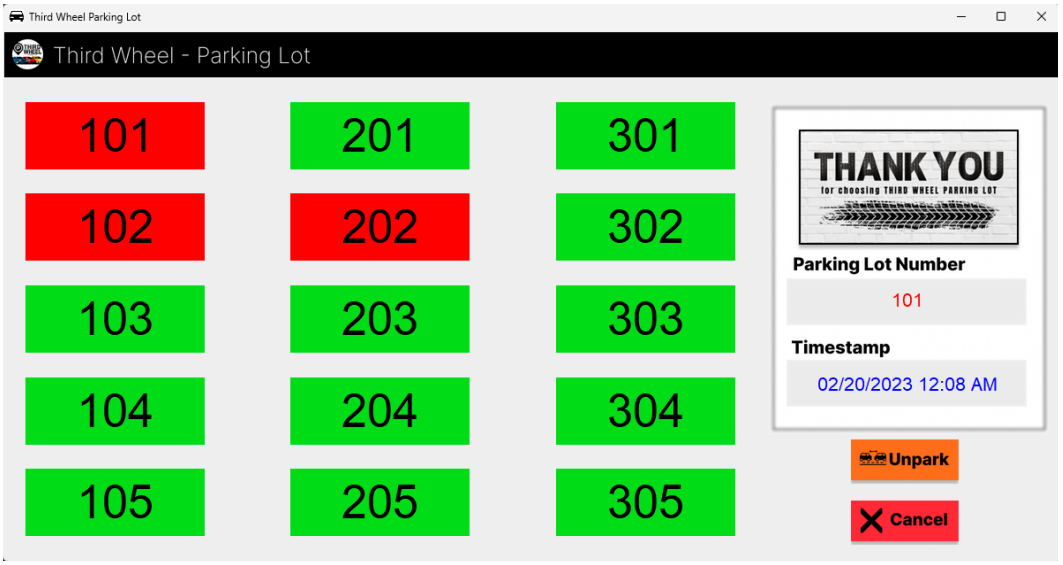
III. Parking

Click “PARK”, then enter the Parking Lot Number where the client parks. The user will also see the Timestamp when the client parked its car to a certain parking lot area. Then, the area where the client parked will turn red.



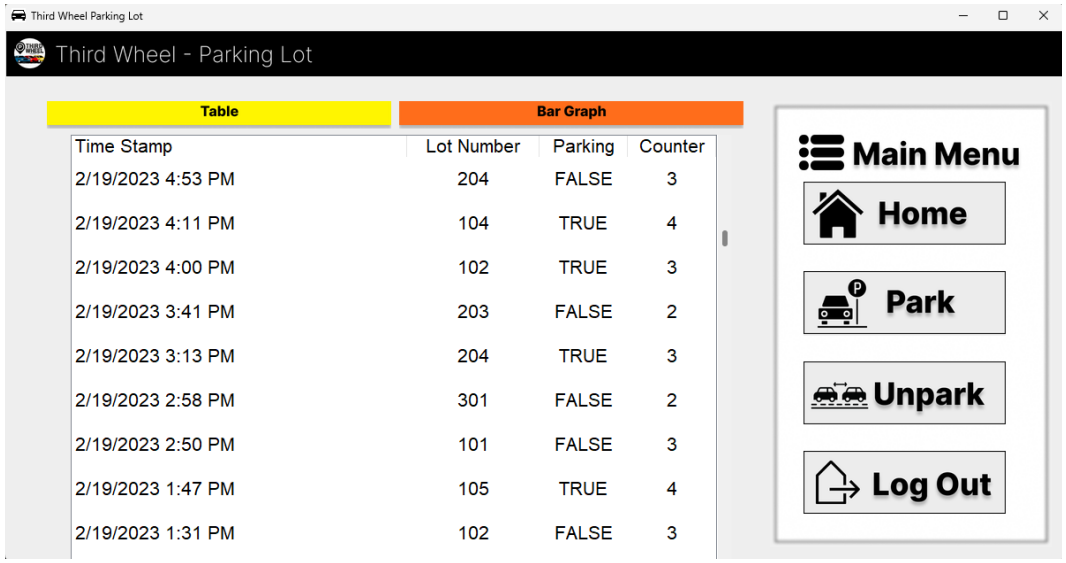
IV. Unparking

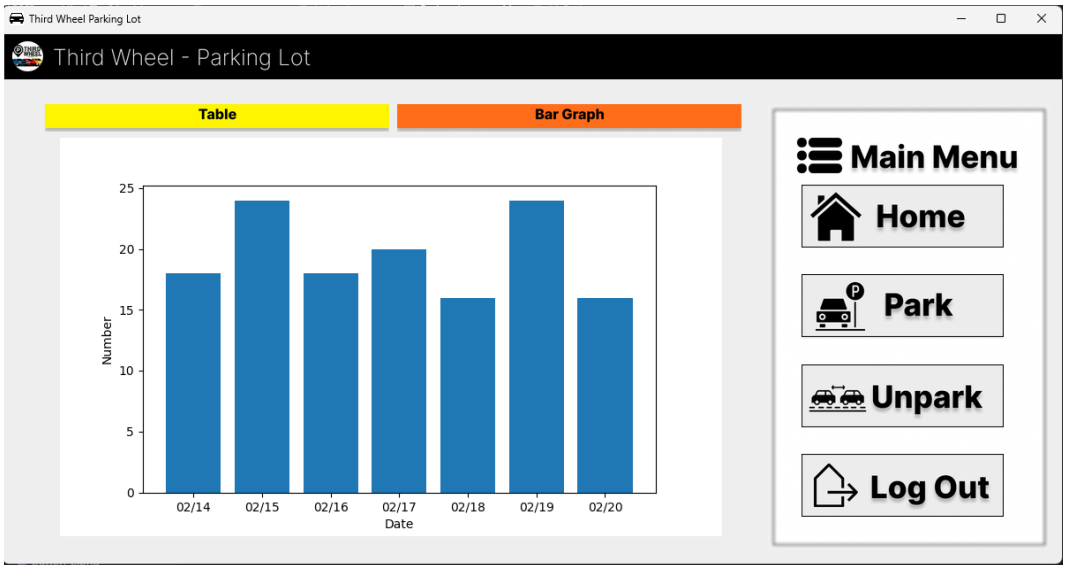
Click “UNPARK”, then enter the Parking Lot Number where the client will unpark. The user will see the Timestamp when the client unparks its car to a certain parking lot area. Then, the area where the client parked will turn back to green.

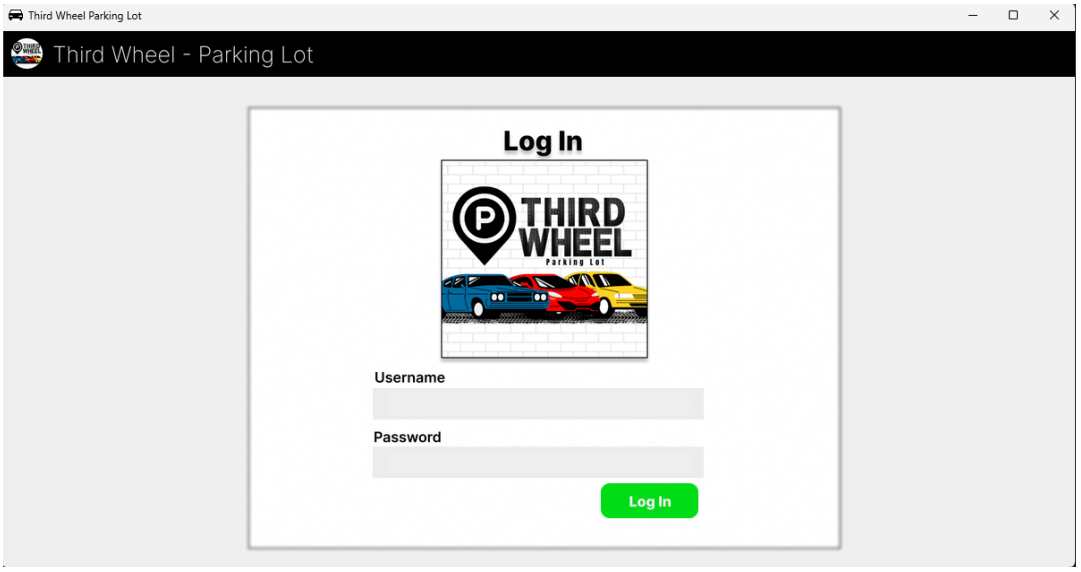


V. Logs

To view the logs, click “LOGS”. The logs have two options – table and bar graph. The default display, and when the user clicks “TABLE”, is a table with the Timestamp when the client parked and unparked its car, Parking Lot Number where the clients parked, Parking– which shows True if the car parked, and False if the car unparked, and Counter which displays how many cars are in the Parking Lot. When the user clicks “BAR GRAPH”, it will display a bar graph with the number of cars that park on a specific date.





VI. Logging Out

To Log Out, Click “LOGOUT”. Then, the user will be directed to the Login windows, again.