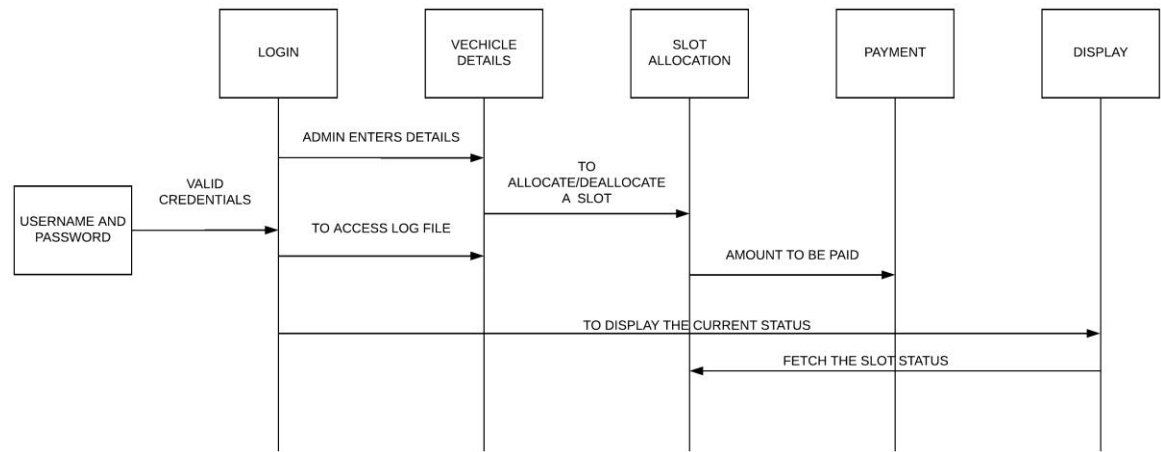
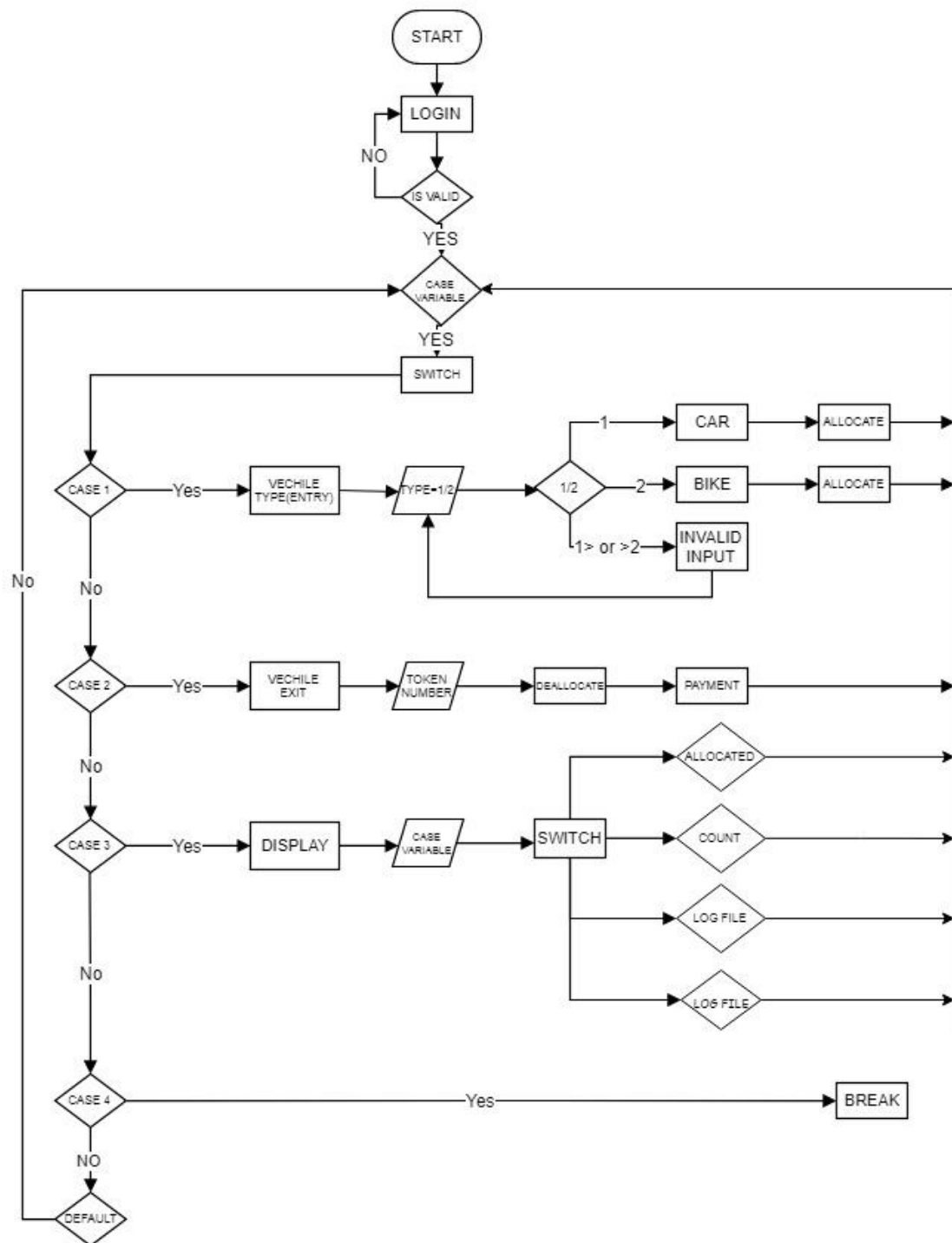


VEHICLE PARKING MANAGEMENT SYSTEM

CONTROL FLOW DIAGRAM



FLOW CHART



MODULE 1 (LOGIN)

ALGORITHM

Step 1: Start the program

Step 2: Get username and password from security

Step 3: Compare the username and password entered by the security with the existing password

Step 4: If the username and the password is correct, the security can login

Step 5: Otherwise, the security cannot login.

Step 6: Stop the program

PSEUDO CODE

```
BEGIN
Print "username"
Input uname
Print "password"
Input pass
If( uname=="admin1 or admin2") && if (pass=="pass")
True: Print "login successfull"
False: Print "Invalid username or password"
END
```

MODULE 2(VECHILE DETAILS)

ALGORITHM

step 1: start the program

step 2: get the registration number and vehicle type

step 3: record its entry time and write all details into log file

step 4: allocate token no and allocate parking

step 5: stop the program

PSEUDO CODE

```
BEGIN
case input
get regno and vehicle type
time_t mytime = time(NULL)
initialize tokenno
get start time = ctime(&mytime)
fputs(text,fptr)
END
```

MODULE 3 (SLOT ALLOCATION)

ALGORITHM:

Step 1: Start

Step 2: Get the token number and the type of the vehicle

Step 3: If the type is two wheeler then store it in array "two"

Step 4: Free spaces are represented as "0"

Step 5: Traverse the array and place the vehicle in the free space

Step 6: Return the slot number

Step 7: Stop

PSEUDOCODE

```
BEGIN
Input tokennumber
Input type
If type==1
Loop i=0-2,j=0-50
a[i][j]=0
Loop i=0-2,j=0-50
If(two[i][j]==0) do two[i][j]=tokennumber
Display slotnumber
If type==2
Loop i=0-2,j=0-50
a[i][j]=0
Loop i=0-2,j=0-50
If(four[i][j]==0) do four[i][j]=tokennumber
Display slotnumber
End
```

MODULE 4 (PAYMENT)

ALGORITHM

step 1: start the program

step 2: get the registration number

step 3: check its entry time and note exit time

step 4: calculate total durations and calculate charges

step 5: display total charges

step 6: write all details into log file

step 7: stop the program

PSEUDO CODE

```
BEGIN
time_t mytime = time(NULL)
get tokenno
get exit time = ctime(&mytime)
totalduration=endtime-starttime
parkingcharges=totalduration*fare
fputs(text,fp)
```

MODULE 5 (DISPLAY)

ALGORITHM

step 1: start the program

step 2: get the switch case variable

step 3: based on the case variable execute the functions.

step 4: 1 deals with allocation representation,2 deals with total vehicle count in parking,3 arrival log file,4 with departure log file

step 5: display the required case.

step 6: stop the program.

PSEUDO CODE

BEGIN

Input casevariable

switch casevariable

case 1: Display allocation representation

case 2: Display total vehicle count in parking

case 3: Display arrival log

case 4: Display departure log

END