Motorboat Management System

**-By Kushagra Gupta**

-Roll Number:01114811621

-Branch: AI and ML

The motorboat Industry is one of the most undermined industry that has driven maritime and coastal tourism to a whole new trajectory. Across the world, there has been an increase in demand for water activities that have become a major tourism attraction, especially in coastal areas. With the passing time, a dynamic approach is the need of the hour. I have developed a **Motorboat Project** which aims to cater its online management system. I have made this innovative project in C language (which has survived more than 3 decades in an industry where newer languages, tools, and technologies emerge and vanish day in and day out) and not to mention its overpowering features.

My objective for this project was to achieve online automation which provides greater freedom and flexibility in this approach as it accords users greater choice and more avenues. Users and trainers enjoy flexible hours, choice, and the ability to enhance income by multiplying their engagement.

The approach I have followed throughout is realistic and dynamic at every level, providing the end user flexibility and accountability at business perspective. I rejoice to add the key feature of my model i.e., its clean assigning structure, which provides a clean UI (user interface) to facilitate online user registration, book slots, schedule for motorboats and instructors based on certain parameters as well as maintaining a healthy record of the same. Moreover, my model is applicable to various similar fields too, for example, tuition management systems, driving school management systems, Meeting Scheduler, gymnasium management systems, etc., and helps avoid any human error leading to overlapping timings for instructors as well as Motorboats.

Snapshots of its working:
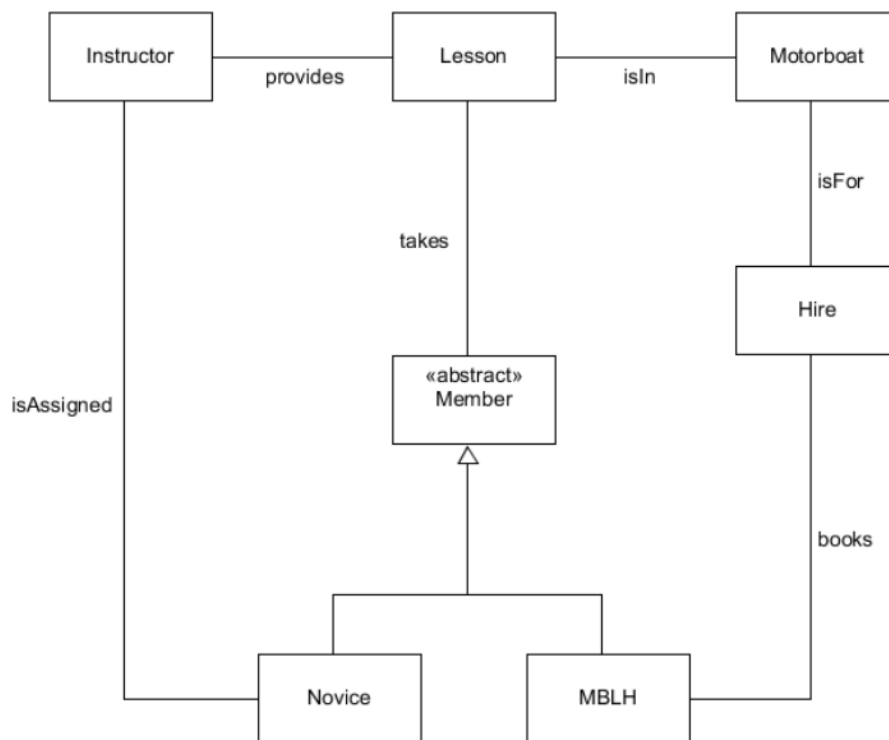

```
please choose the option :
1. Input new Student
2. Input new Motor Boat
3. Input new instructor
4.Assign a instructor
5.DIsplay all students
6.Book a Slot with instructor
7.Book a slot with Motorboat
8.Show Timetable of student
9.Show timetable of Instructor
10.Show timetable of motorboat
11. Exit


 Choose a option: 4

Name        ||    Roll No.    ||   Number of bookings already made
 student1       -        1         --             0
 Student2       -        2         --             0
Enter student ID: 1
Choose from the following instructors:

  Instructor1   -  1
  Instructor2   -  2
choose the instructor:  1


                   *** Instructor Assigned Successfully ***
```

```
please choose the option :
1. Input new Student
2. Input new Motor Boat
3. Input new instructor
4.Assign a instructor
5.DIsplay all students
6.Book a Slot with instructor
7.Book a slot with Motorboat
8.Show Timetable of student
9.Show timetable of Instructor
10.Show timetable of motorboat
11. Exit


 Choose a option: 6

student details are as follows:

NAME      ||  ROLL ||  NUMBER OF LESSONS BOOKED
student1    1   ---->          1
Student2    2   ---->          0
Enter the Roll number of student whose slot is to be bookeed!
1


Instructor Details of student :
Instructor1     -       1

Enter the Instuctor ID:  1
```

```
                              ----Whole schedule---
*********************************************************************************
Time slots:   9        10       11       12       13       14       15       16       17

*********************************************************************************
Mon
          0        0        0        0        0        0        0        0        0
*********************************************************************************
Tue
          0        0        0        0        0        0        0        0        0
*********************************************************************************
Wed
          0        0        0        0        0        0        0        0        0
*********************************************************************************
Thu
          0        0        0        0        0        0        0        0        0
*********************************************************************************
Fri
          0        0        0        0        0        0        0        0        0
*********************************************************************************
Sat
          0        0        0        0        0        0        0        0        0
*********************************************************************************
Sun
          0        0        0        0        0        0        0        0        0
Enter the desired weekday(0-6): 0

Enter the desired weektiming(9-17): 9
```
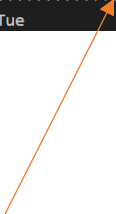
```
 Choose a option: 7

student details are as follows:

NAME    || ROLL ||  NUMBER OF LESSONS BOOKED
   student1      -     1   ---->       1
   Student2      -     2   ---->       0
Enter the Roll number of student whose slot is to be bookeed!
1


Instructor details of the studet is:

Instructor1    -    1

Enter the Instuctor ID:  1



                    ----Whole schedule of asked instructor---
*********************************************************************************
Time slots:   9        10       11       12       13       14       15       16       17

*********************************************************************************
Mon
          1        0        0        0        0        0        0        0        0
*********************************************************************************
Tue
```

```
                    ----Whole schedule of asked instructor---
***********************************************************************************************
Time slots:  9        10       11       12       13       14       15       16       17
***********************************************************************************************
Mon
             1        0        0        0        0        0        0        0        0
***********************************************************************************************
Tue
             0        0        0        0        0        0        0        0        0
***********************************************************************************************
Wed
             0        0        0        0        0        0        0        0        0
***********************************************************************************************
Thu
             0        0        0        0        0        0        0        0        0
***********************************************************************************************
Fri
             0        0        0        0        0        0        0        0        0
***********************************************************************************************
Sat
             0        0        0        0        0        0        0        0        0
***********************************************************************************************
Sun
             0        0        0        0        0        0        0        0        0
```