

User Manual for Scooter Sharing System of Group 84

Introduction

This user manual is made for scooter sharing system designed by Group 84. Using this manual, all users can know how to operate system quickly.

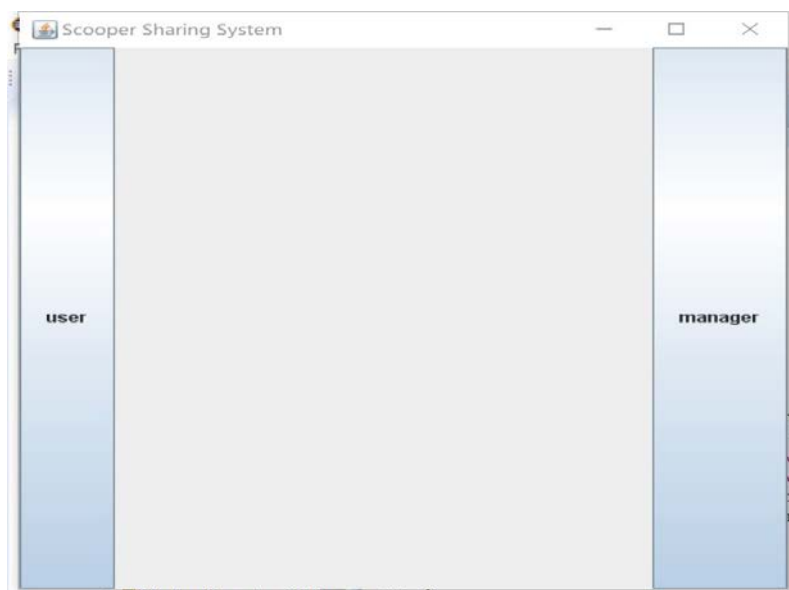
Usage overview

As a system manager, he can get the information record of all users and current state of docks and scooters. He can help students and staff in QM register to be users in system and delete them from it. He also can ban and release user ID directly. And he can send email to users.

As a scooter user, he can pick up and return scooters at docks. The students and staff in QM can register to be a legal user. And users can pay the fine to release his user ID.

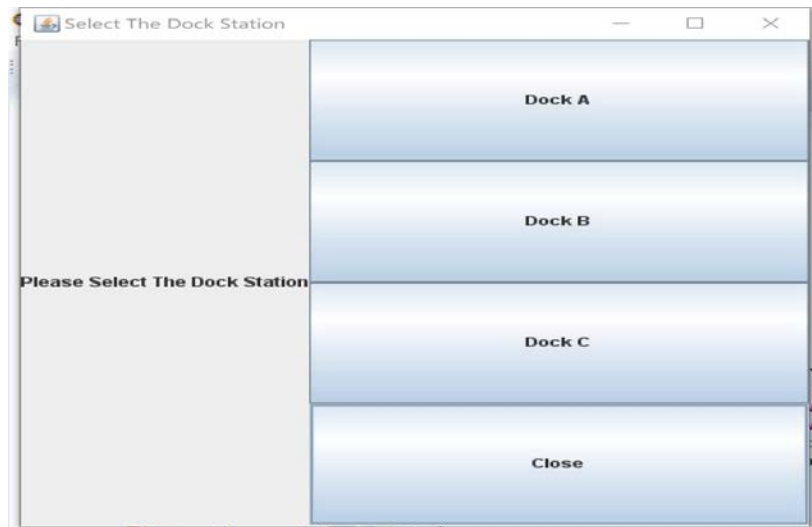
Usage detail

1. In figure 1, this is the main frame of system. Choosing “user”, you will go into user section, and choosing “manager”, you will go into manager section.



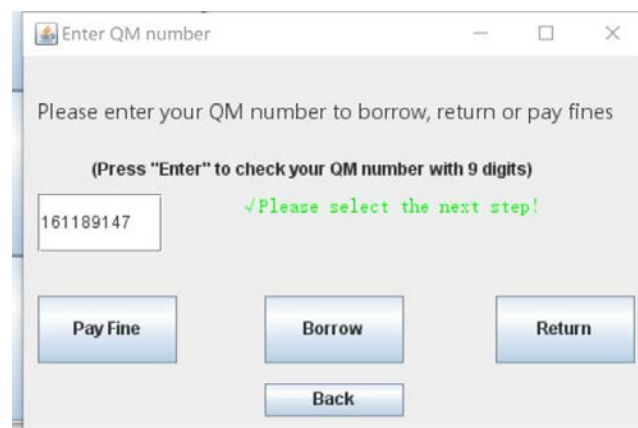
(Figure 1)

2. If you choose the user section, in figure 2, you can choose the dock you want to pick up scooters or return them.



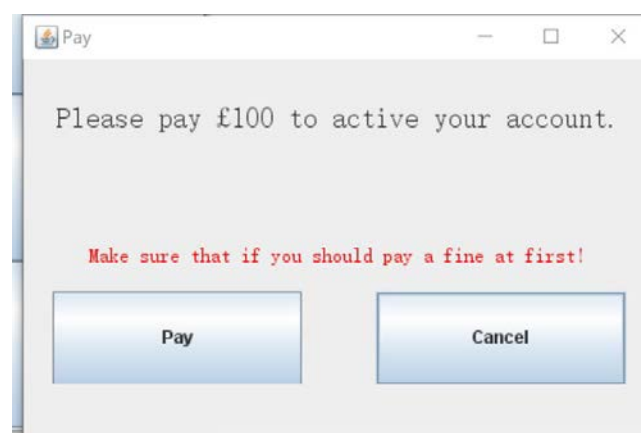
(Figure 2)

3. After choosing the dock, in figure 3, you should input your QM number and choose pay fine , borrow or return.



(Figure 3)

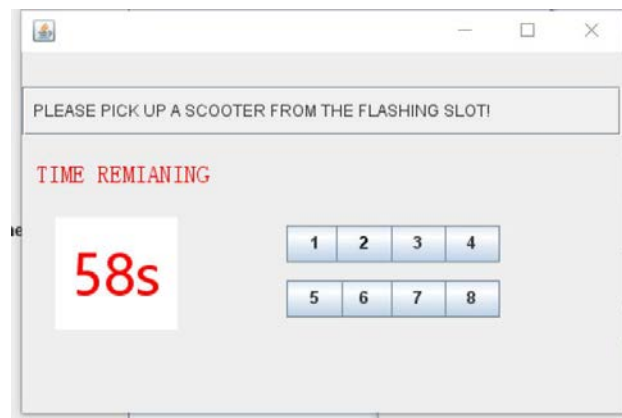
4. If choosing "pay fine", you will enter figure 4. And press button "pay", you will pay the fine and can use scooters after banning.



(Figure 4)

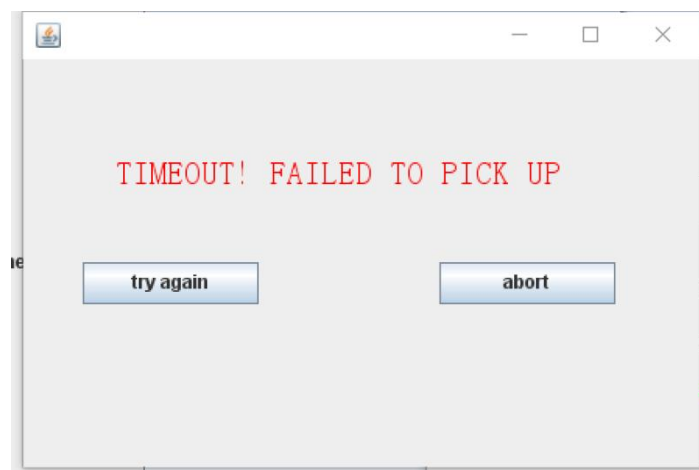
5. If choosing "borrow", and if your user ID is being banned, you will enter figure 4 again to pay the fine. If not, you will go into figure 5. There are 8 LEDs representing slots. And there will be a

LED that is flashing. If you press the flashing LED, the slot will be unlocked and you can pick up scooter. But you should pick it up before the timeout and there is a screen that displays time from 60s to 0s.



(Figure 5)

6. If you do not pick up scooter before timeout, you will enter figure 6. It shows “timeout! pick up failed”. And you can press “try again”, you will borrow scooters at next time.



(Figure 6)

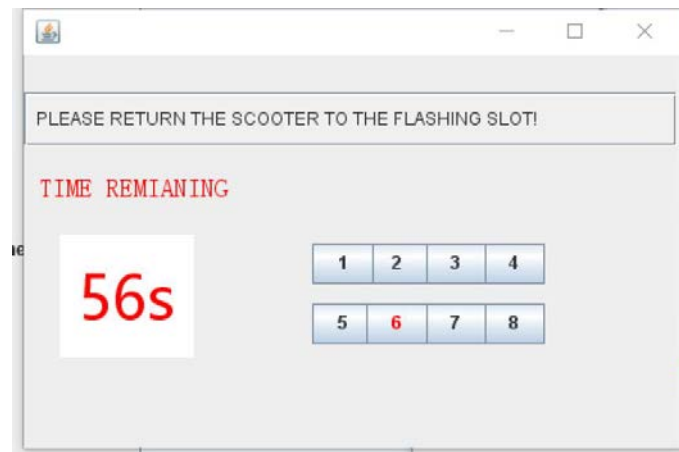
7. If you pick it up successfully, and in figure 7, it will show “Pick up successfully”.



(Figure 7)

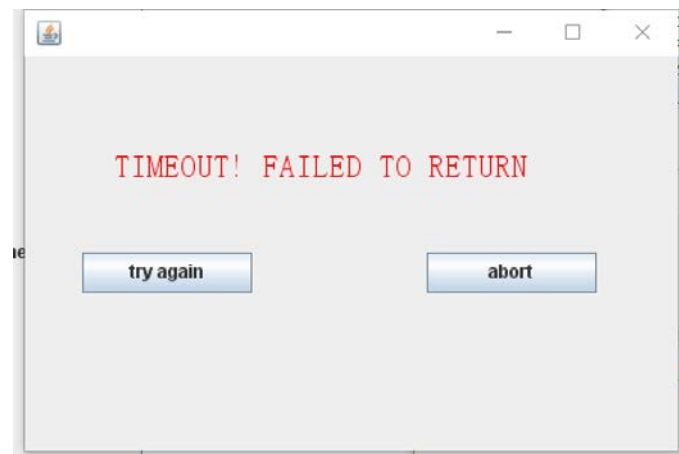
8. Back to figure 3, you can choose “return” and enter figure 8. In this, there are 8 LEDs too. And there will be a LED flashing randomly, which represents this slot is available and you should

return scooter to this slot. Pressing flashing LED means you have finished returning. And there is a time counter too.



(Figure 8)

9. If you do not return before timeout, entering figure 9.



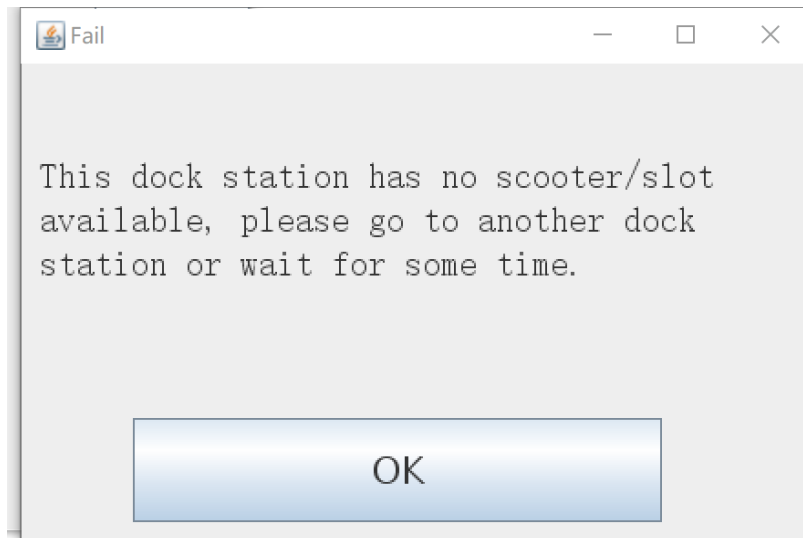
(Figure 9)

10. If you finish returning, entering figure 10.



(Figure 10)

11. Back to figure 3 again, if you decide to borrow or return scooter and there is no slot available in the dock you choosing, you will enter figure 11. The system will tell you this dock does not have available slot.



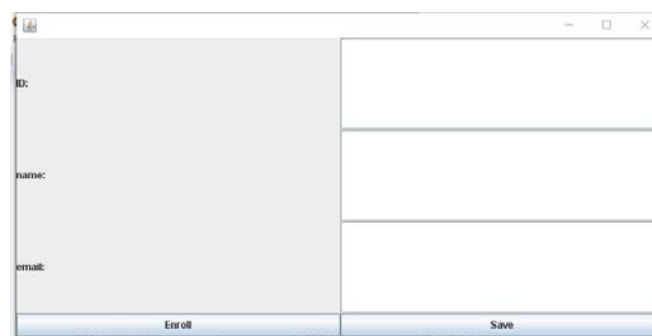
(Figure 11)

12. If you choose “manager” in main frame, you will enter figure 12. In this frame, you can choose “enroll”, “usage information”, “dock state”, “scooter state”, “user information” and “send email” to operate.



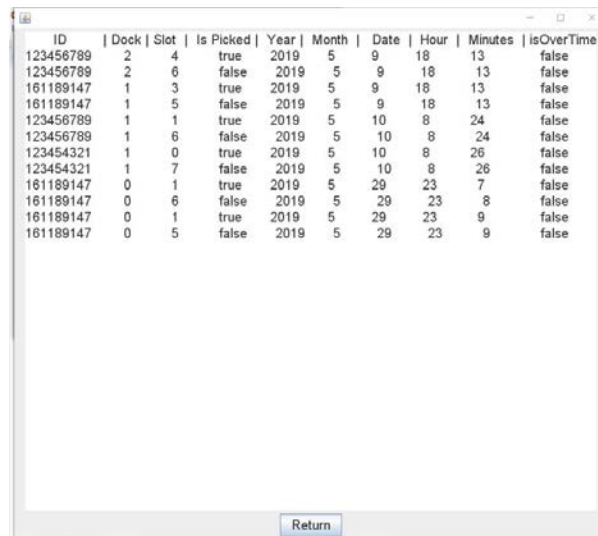
(Figure 12)

13. If you choose “enroll”, you register users’ information to system in figure 13. You can input QM number, name and email. Then pressing the “enroll” button, and users’ information will be registered into system. And this user will have right to use scooter sharing system.



(Figure 13)

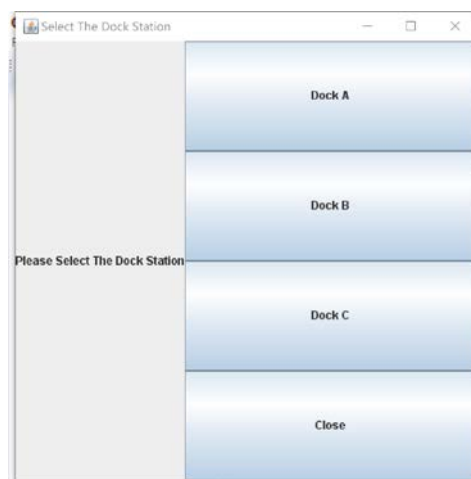
14. Pressing “usage information” button and enter figure 14. To input the users’ QM number and press “search” button, you will get his information.



ID	Dock	Slot	Is Picked	Year	Month	Date	Hour	Minutes	isOverTime
123456789	2	4	true	2019	5	9	18	13	false
123456789	2	6	false	2019	5	9	18	13	false
161189147	1	3	true	2019	5	9	18	13	false
161189147	1	5	false	2019	5	9	18	13	false
123456789	1	1	true	2019	5	10	8	24	false
123456789	1	6	false	2019	5	10	8	24	false
123454321	1	0	true	2019	5	10	8	26	false
123454321	1	7	false	2019	5	10	8	26	false
161189147	0	1	true	2019	5	29	23	7	false
161189147	0	6	false	2019	5	29	23	8	false
161189147	0	1	true	2019	5	29	23	9	false
161189147	0	5	false	2019	5	29	23	9	false

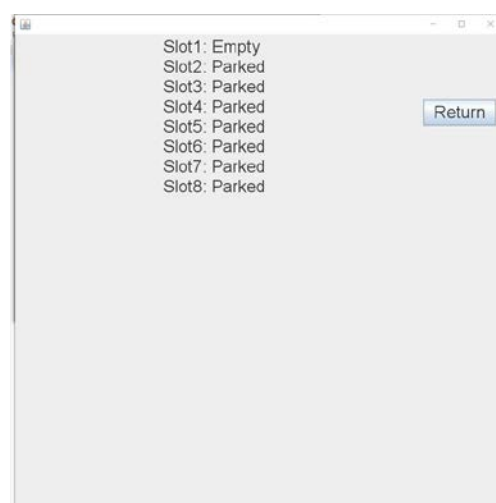
(Figure 14)

15. Pressing “dock state” button and enter figure 15. You can choose the dock A, B or C to check.



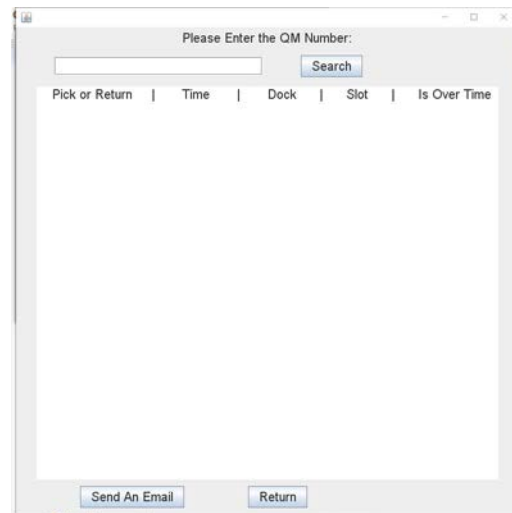
(Figure 15)

16. Assuming that you choose dock A, the current state of dock A will be displayed in figure 16.



(Figure 16)

17. Pressing “send email” button and enter figure 17, you will input the user’s QM number who you want to send email to. And pressing send button to send email.



Please Enter the QM Number:

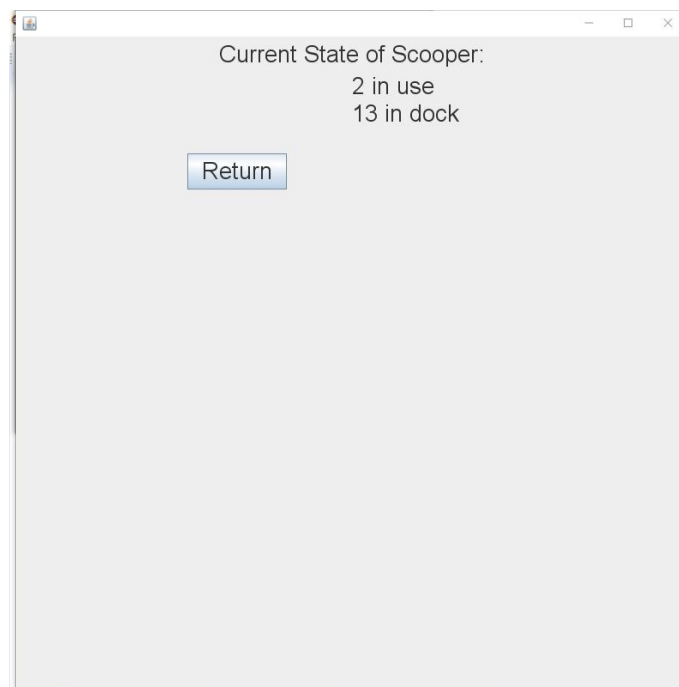
Search

Pick or Return	Time	Dock	Slot	Is Over Time
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Send An Email Return

(Figure 17)

18. Pressing “scooter state” will enter figure 18. To show the current of scooter usage.



Current State of Scooper:

2 in use
13 in dock

Return

(Figure 18)