3. Specific Requirements
3.1 External Interface Requirement

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3.1.1 User Interfaces

If the user opens the application, the start page will appear with the application logo on it, see Figure 1. After that, the login page will appear if he is not a new user, see Figure 2. If the user has not registered, he should be able to do that on the sign-up page, see Figure 3. The Home page should be directly shown to the user when the application is opened if he isn't a new user and no more than a week has passed since he logged in as shown in Figure 4. As for the investor, another interface appears from which he can add his own spaces
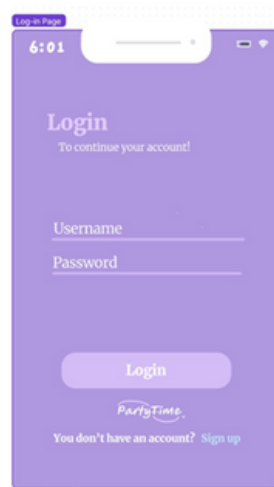
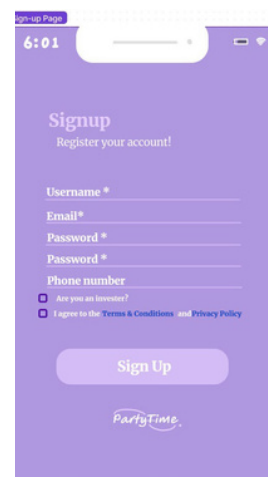## User interface :

Figure 1

Figure 2

Figure 3

*This interface in **Figure4** shows the services provided in the application :*
1-Organising the party .
2- Choosing a place for the party.

on the left of the interface shows additional icons:
1. Return to the home page .
2- Communicate with customer service .
3- Settings .

and at the bottom of the bar shows an icon in which the user's data can be modified

Figure 4

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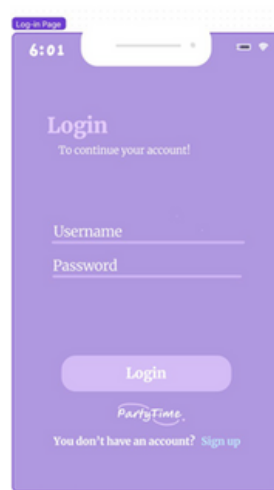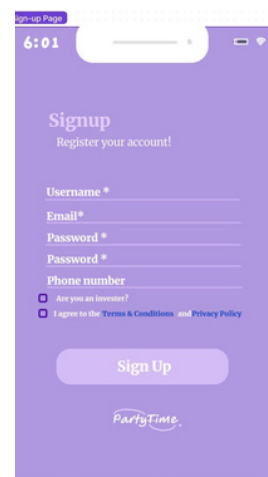
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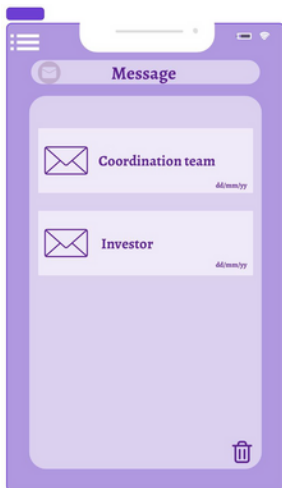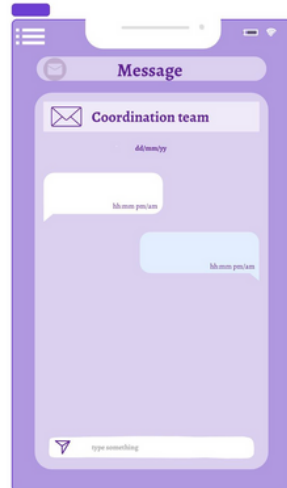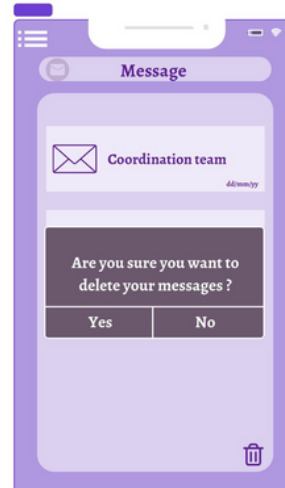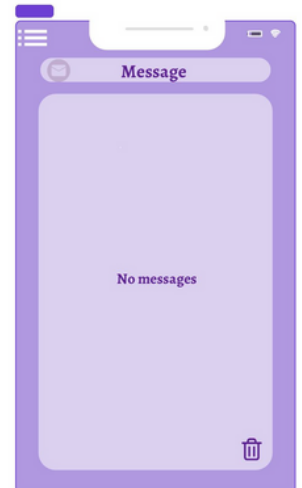

Figure 4

Figure 5

Figure 6

Figure 7

Figure 8

*When you click on the Contact Customer Service button as it appeared in **Figure4**, we will be shown in **Figure5** and **Figure6** a field to contact customer service about facing any problem and a field to communicate with investors (owners of places that have been rented by the user). .*

*At the bottom of the message page, a waste bin appears when we want to delete the message, as shown in **Figure 7** and **8**.*
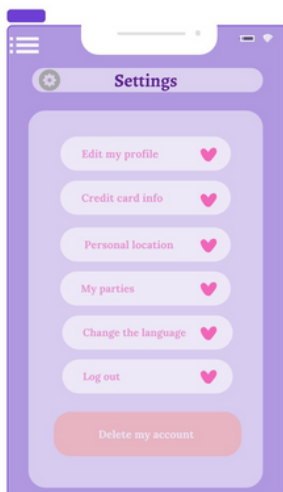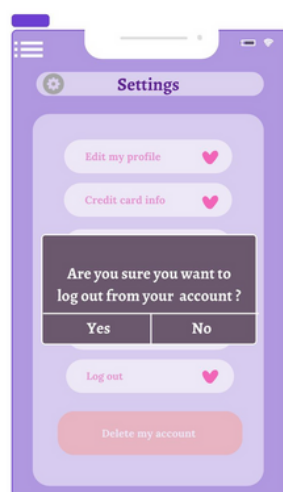

Figure 9

Figure 10
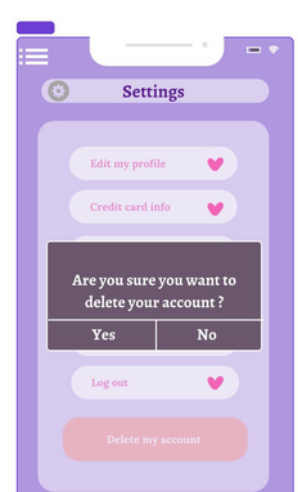

Figure 11

*When you click on the settings button as in **Figure4** you will see 5 operations in **Figure9** that you can modify in addition to logging out of the account and the user's account deletion button as shown in **Figure10** and **Figure11** .*
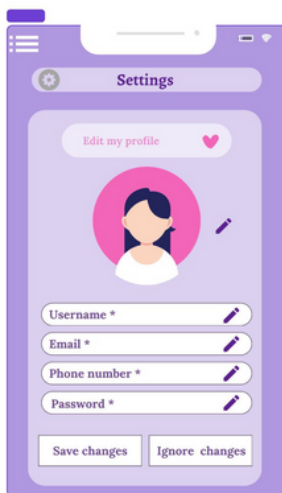
Figure 12

Figure 13

Figure 13.1

Figure 14

*Among the five operations in the settings is to modify the user's profile, as in **Figure12** All of his data can be modified, then he clicks on the "View the changes" button.*
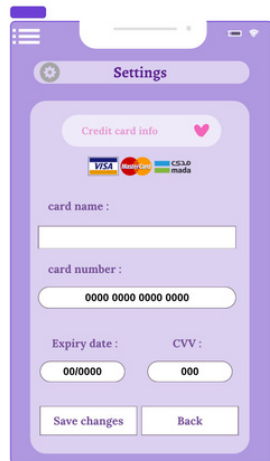
*There is also a field to add his credit card information, as shown in **Figure13** To save this data, click the Save button, the user can save and add multiple cards as shown in **figure 13.1** and pick only one default card.*
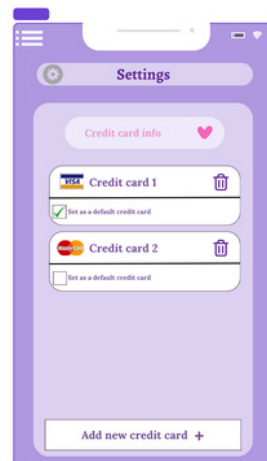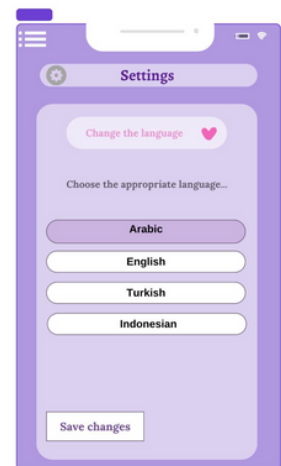
*The user can also choose the appropriate language to run the application, as shown in **Figure14**.*
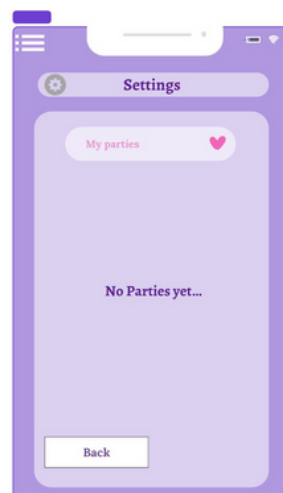

Figure 15

Figure 16

*The user can see all his previous and current purchasing transactions through this process, and it appears in **Figure15** All his previous operations, and this interface appears in **Figure16** when the user has not had any previous operation.*
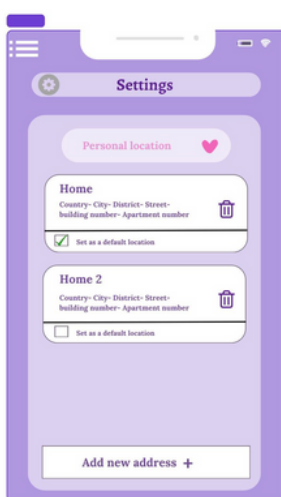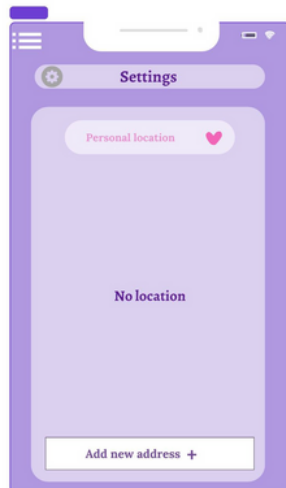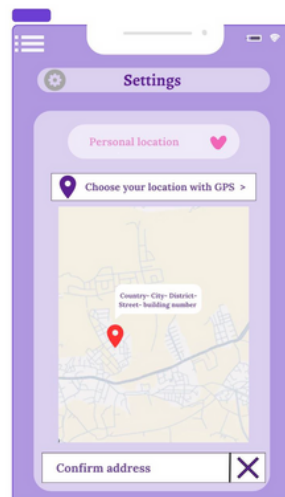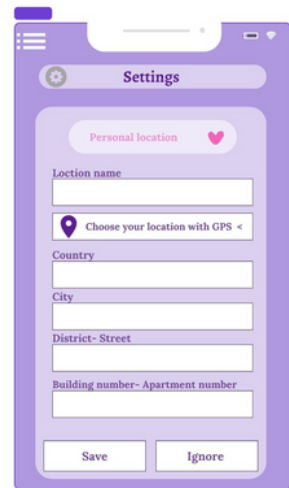
Figure 17

Figure 18

Figure 19

Figure 20

*In this option, the user can choose his personal location **Figure17** if it is previously registered, in order to show him all the available spaces near his area. If there is no previously registered location like **Figure18** , his location can be added either automatically using GPS, as in **Figure19** Or enter data manually by entering all the data shown in **Figure20**.*
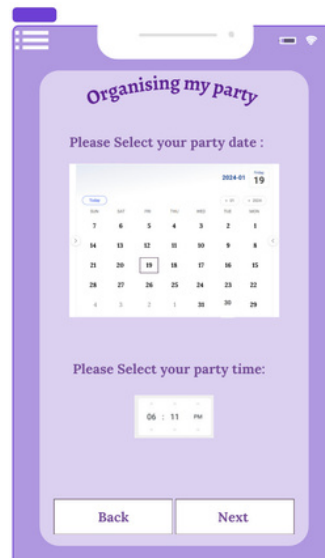
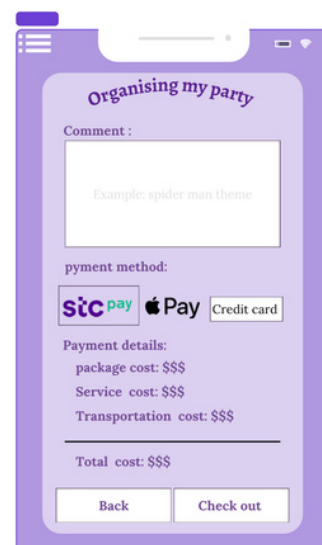

Figure 21

Figure 22

Figure 23

*if the user wants to organize his party first he must choose one of the packages that are shown in **Figure 21** then click on the next button to continue, then in **figure 22** the user will choose the right date and time and click on the next button, then in **figure 23** the will user comments all instructions so the work team put the instructions in mind for example party theme, the color of the balloons … etc and at the end the details of payment and check out*
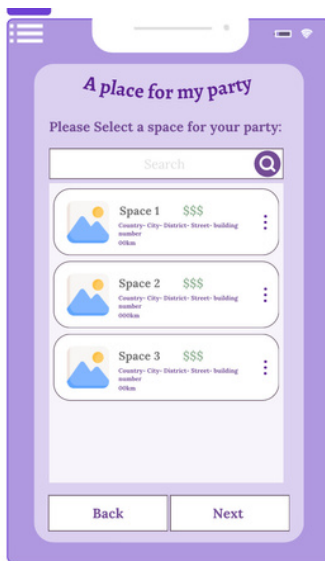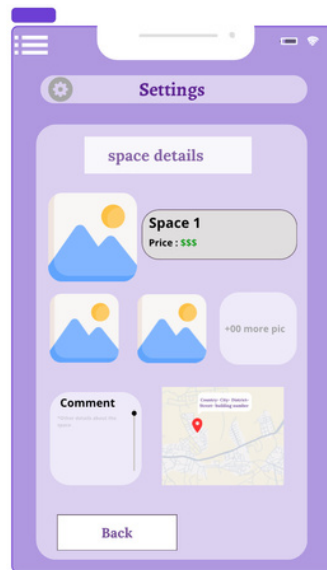
Figure 18.1

Figure 19.1

Figure 20.1

When a client rents a space from an investor (a place for my party), he first searches for the space he wants to rent as shown in Figure 18.1, and when he clicks on the three dots next to the space, the details of the space appear as shown in Figure 19.1. When searching for a specific space and it does not exist, the user interface appears. As in Figure 20.1
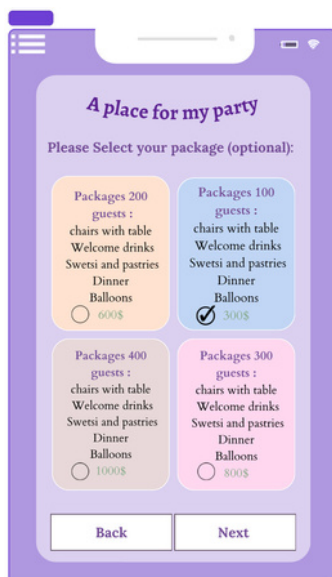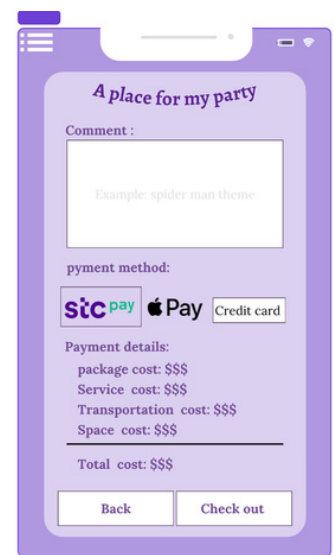

Figure 21.1

Figure 22.1

Figure 23.1

When the user finishes choosing a space to rent, he can choose whether to select a package or not as shown in Figure 21.1. Upon completion, the user moves to the interface in Figure 22.1 by using the Next button to set a day and time for the party in the rented place, so that the days in green are considered not reserved. In red, reserved. Upon completion, the user goes to the last interface to place comments related to the party, whether for the investor or the coordination team and finally, payment details with the final cost and checkout, as shown in Figure 23.1.

Investor interface :

Figure 24

Figure 25

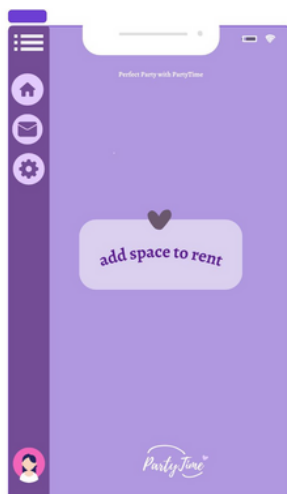

Figure 26

In *Figure 24*, it is the main screen for the investor when he logs in to the application. The investor's screen is similar to the customer's screen, but the investor has a special function, such as adding a space for rent. The function is shown in *Figures 30 to 37.*
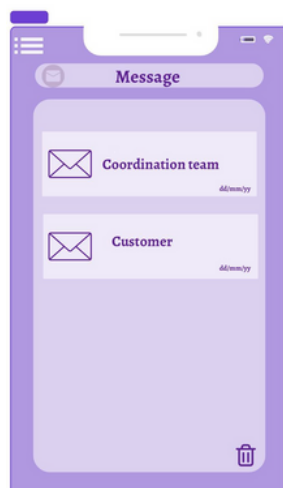
In *Figure 25* we see the message field, which is the same field that the customer has, but the investor can communicate with customers to meet their needs or communicate with the coordination team to coordinate his rented space.
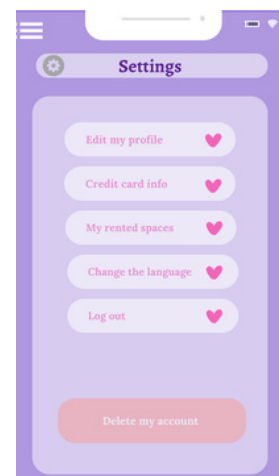
Figure 26, is the settings page for the investor, but what is different is that the personal address box and the My Parties box are deleted, and there is a new box called My Rented Spaces, the details of the new box are explained in *Figures 27 to 29*.
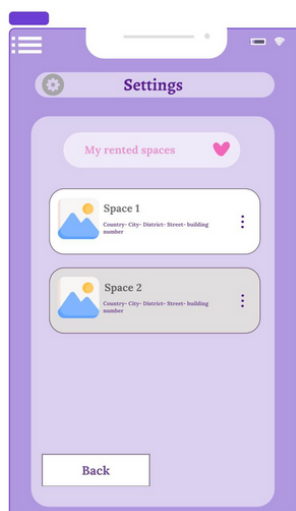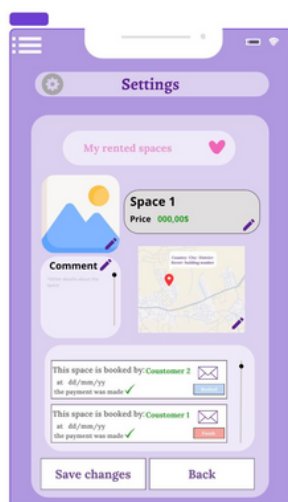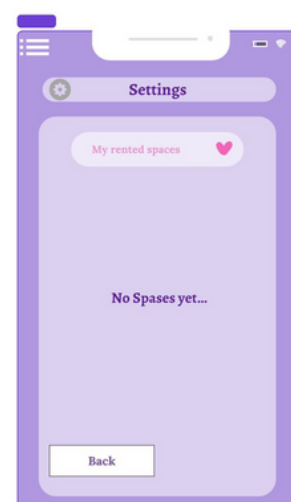

Figure 27

Figure 28

Figure 29

In *Figure 27*, it represents all the areas registered and saved by the investor. If he wants to see details about his registered spaces, when the investor chooses the box he wants all the details will appear to him as shown in *Figure 28*. He can read and modify the selected space information from the pen mark, He can also view the customers who rented his space and the previous tenants, and he can write messages to the customer(and you must click on the Save Changes button to save any amendment to the information). If the investor has not added any space yet, a message will appear on the screen, as shown in the *Figure 29*
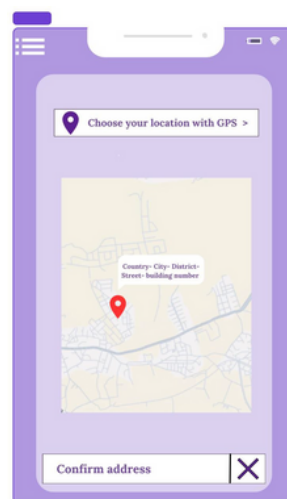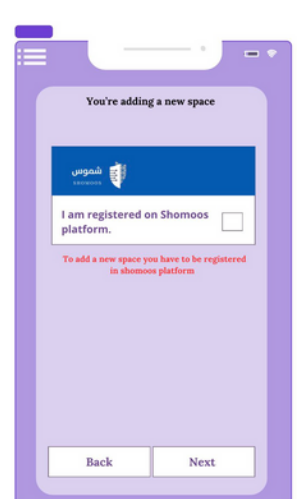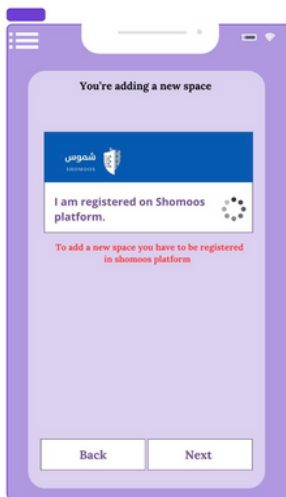
Figure 30

Figure 31
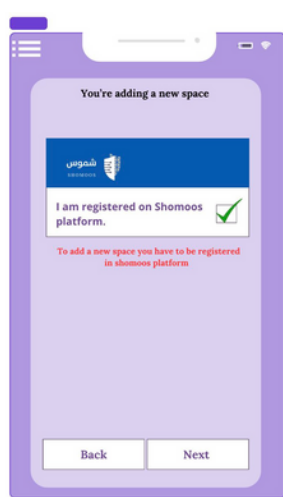

Figure 32

Figure 33

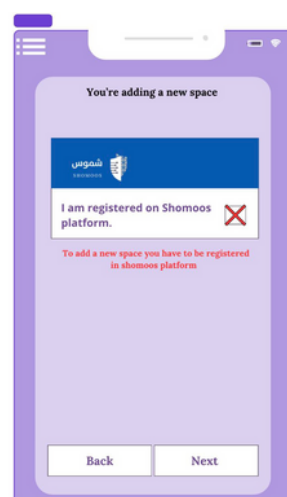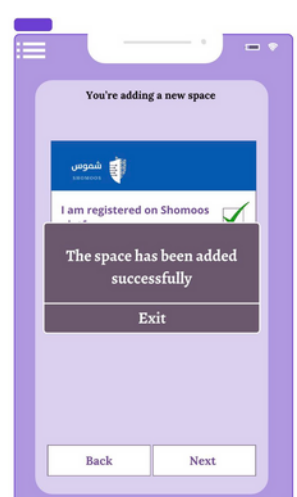
Figure 34

Figure 35

Figure 36

Figure 37

*In the **figure 30** the user begins registering a space to rent by entering the space information and adding pictures of it. When he finishes entering the information, he moves to the other page using the Next button. The user moves to the **figure 31** Here the location of the space is entered either using GPS like **figure 32** or entering the address manually, then the user moves to the next page by the next button or returning to the previous page by the back button to modify something. In **figure 33** Here it is verifying that the user is registered in the Shoumos platform, and the **figure 34** the application confirms whether the user is registered or not, if he is registered in the system. The checkmark appears as in the **figure 35**, and if he is not registered, the error mark appears as in **figure 36**, and the user cannot add their space without registering on the Shoumos platform. When everything is completed, the user moves to the next step, and his space is registered successfully and a window appears as In **figure 37**.*
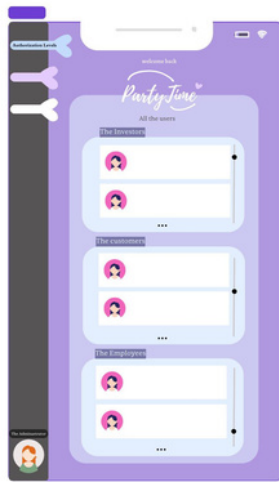
Administrator interface :

Figure 38

in the Administrator interface, three options will appear on the left side. The first (blue) is the one chosen in **Figure 38** this interface, shows the Administrator the authorization levels for all users he has in the application, and this depends on logging in to the admin with his username as in **Figure 2**.
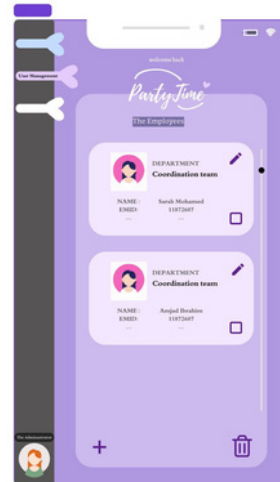

Figure 39

In **Figure 39** in the second option (purple color) we see the option user management, allowing the administrator to manage users in the application by modifying, adding, or deleting users.
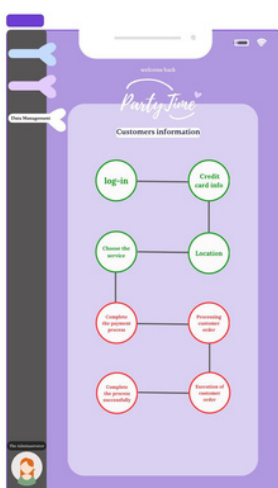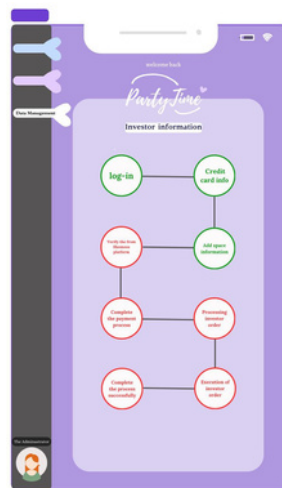

Figure 40   Figure 41

the administrator manages data related to parties(customer info in **Figure 40** and investor info in **Figure 41**) this includes validating the accuracy of the data and ensuring its consistency with the system's requirements and So which ensures the administrator the safety and smooth flow of service.

3.1.2 Hardware Interfaces:

The camera is used to take photos of investors' spaces, and the application indirectly uses the physical GPS device in the mobile phone hardware that is managed by the GPS application, and also the mobile phone hardware is connected to the application database server to collect data and manage it.

3.1.3 Software Interfaces:

The GPS application along with the mobile application share information so that the GPS application can determine the user's location. and the application connects with the Shomoos platform database to check if the investor is registered on the platform, also it uses the calendar application to schedule parties. The Party Time application also communicates with bank credit payment services to obtain customer transfers, and for the investors to receive their funds.

3.1.4 Communication   Interfaces:

the communication between the partyTime application, and the software and hardware devices is handled by the underlying operating system.