APS PROJECT
Holiday Home Accommodation System (Airbnb)

Group-4

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INTRODUCTION

Holiday Home Accommodation System (Airbnb) is built with an objective that any person who travels to another city for vacations and don't want to stay in hotel rather want to stay in a house which is well furnished, then in that case he/she can use this system to get the details of all the nearby homes which are available as per the suitability of the user.
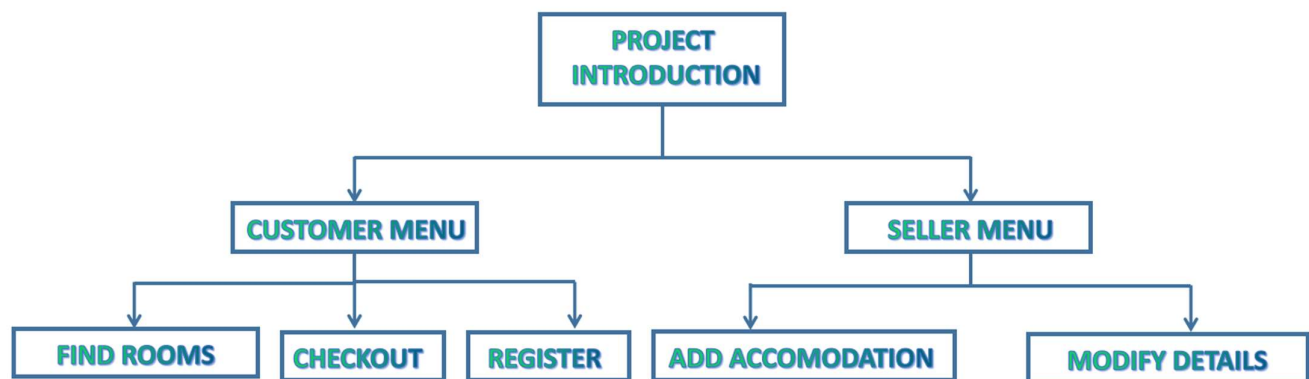
ABOUT OUR PROJECT

We build this project using C++ language and we have used several data structures like maps,vectors,graphs. We also used File Handling in our project to handle the data of the customers, seller, address of the house. Our project uses Djikstra's Algorithm.
Djikstra's Algorithm is best suited algorithm for our project because when the user inputs his current location where currently he is then automatically our projects provides the user with all the nearby homes in

order of the shortest distance between the user and the house.

FUNCTIONING OF PROJECT

The functioning of our project is listed below in the help of flow chart

```
                    ┌──────────────┐
                    │   PROJECT    │
                    │ INTRODUCTION │
                    └──────┬───────┘
              ┌────────────┴────────────┐
       ┌──────▼──────┐           ┌───────▼──────┐
       │CUSTOMER MENU│           │ SELLER MENU  │
       └──────┬──────┘           └───────┬──────┘
    ┌─────────┼─────────┐          ┌──────┴──────┐
┌───▼────┐┌───▼────┐┌───▼────┐┌────▼──────────┐┌─▼────────────┐
│  FIND  ││CHECKOUT││REGISTER││ADD ACCOMODATION││MODIFY DETAILS│
│ ROOMS  ││        ││        ││               ││              │
└────────┘└────────┘└────────┘└───────────────┘└──────────────┘
```

On the homepage, we have provided two menu options- first one is Customer Menu and second one is Seller Menu. When the user selects any one of the options then further processing takes place. Suppose if user selects Customer Menu then in that we've provided three options- first one is to find rooms, second one is

checkout option and third option is customer register. Find rooms works for providing the best homes on the basis of shortest path with the customer. Checkout is used when the user wants to leave the home. At the time of checkout, we've provided the feedback option also with adds the rating of the room. Next is customer register, this function is used for the new customers who want to register for the Airbnb can register with the help of this.

Now suppose if user selects Seller Menu, then their we've provided two options. First is Add Accommodation, suppose the user wants to add another property for rent then he or she can do the same using this function. Second is to modify details, this function helps the user to modify their details of the accommodated property.

Output

LANDING PAGE:

```
=========================================================
||       WELCOME TO HOLIDAY HOME ACCOMODATION SYSTEM    ||
=========================================================

                -> 1) SELLER MENU
                -> 2) CUSTOMER MENU

Select the menu you wish to continue with......

-> 1
```

SELLER MENU:

```
==========================================================
||                    SELLER MENU                       ||
==========================================================

                -> 1) ADD ACCOMODATION
                -> 2) MODIFY DETAILS

Select the task you wish to continue..
-> 1
```

CUSTOMER MENU:

```
===========================================================
||                   CUSTOMER MENU                       ||
===========================================================

                -> 1)SEARCH HOTEL
                -> 2)CHECKOUT
                -> 3)REGISTER

Select the task you wish to continue..
->
```

SEARCH HOTEL MENU:

```
=========================================================
||                   SEARCH HOTEL MENU                 ||
=========================================================


    Enter your customer Id : 5
    Customer Login Successful..!!!
    Do you wish to continue booking..(Y/N) : Y

    Enter your location : 65
```

HOTEL SEARCH LIST:

```
Details of Hotel Availaible:
```

Hid	Name	Price	Room Type	Available For	Number of +ve Reviews
5	honghog	878	Private	98	9
20	Entire	215	Private	321	0
33	1	180	home/apt	67	197
42	Room	150	Entire	365	15
65	Side	375	room	180	27
104	jailcafe	657	private	10	0
105110	hongknight	765	Private	20	0
105110		765		20	0
43	Near	40	home/apt	188	25
87	-	130	home/apt	38	61

```
        Select home Id for home you want to book :
```

CHECKOUT MENU:

```
=========================================================
||                   CHECKOUT MENU                     ||
=========================================================


    Enter your customer Id : 5
    Customer Login Successful..!!!

    Enter home Id for home you want to checkout :
```

RATING SYSTEM:

```
        Home checkout successfully...!!
        Checkout succesfull..!!
        Do you want to rate your accomadation ,press 'y' for yes : y

        For positive feedback , press 1 ,else 0 : 1
```

CUSTOMER REGISTRATION MENU:

```
=========================================================
||                  CUSTOMER REGISTRATION MENU                 ||
=========================================================

Enter your name :
```

MODIFY ACCOMMODATION DETAILS:

```
=========================================================
||                    MODIFY DETAILS MENU                     ||
=========================================================

Enter your seller Id : 5

ID Matched....Login In Successful..!!

Do You Want to Modify Details (Y/N) : Y

Enter your new details

Enter Name : hoongkong

Enter Address : Noida

Enter Sector : 56

Enter room type : Private

Enter price : 650

Enter availaible days : 87
```

ADD ACCOMMODATION:

```
=========================================================
||                    ADD ACCOMODATION MENU                   ||
=========================================================

        Enter Name : moonnight
        Enter Address : noida
        Enter Sector : 64
        Enter room type : Entire
        Enter price : 876
        Enter availaible days : 98
```

THANK YOU