Weekly Assignment 4 – Instructions

Read the requirements document and use cases closely so you understand the program state requirements. Then fill out the events planning document. Please save the events document in your Project folder. Submit your GitHub link or Zip.

Requirements Document

REOL	HREM	FNTS	DOCUM	MENT

Date: October 19, 2018

Date Submitted:

Application Title: Airbnb Reservations

This Windows Classic Desktop application allows a user to calculate the cost of Purpose:

an Airbnb stay for an apartment in Orlando, Florida.

Program Procedures: From a window on the screen, the user chooses the number of nights to stay at

the Orlando Airbnb; the total cost of the accommodations is displayed.

Algorithms, Processing,

and Conditions:

1. The user must be able to enter the number of nights.

2. A picture of an Airbnb app will be displayed throughout the entire process.

3. After entering the number of nights needed, the user clicks the Display Cost

4. One night of accommodations costs \$79 for the full apartment each night;

the total cost will be displayed in currency format.

Notes and Restrictions:

1. The user can use a Clear button to clear the number of nights entered and

the total cost and then enter another number of nights.

2. An Exit button should end the application.

3. The cost per night can vary, so the program should allow a different price to

be placed in any headings and be used in any calculations.

Comments:

The picture is named airbnb and is available on CengageBrain.com.

FIGURE 4-91

Use Cases

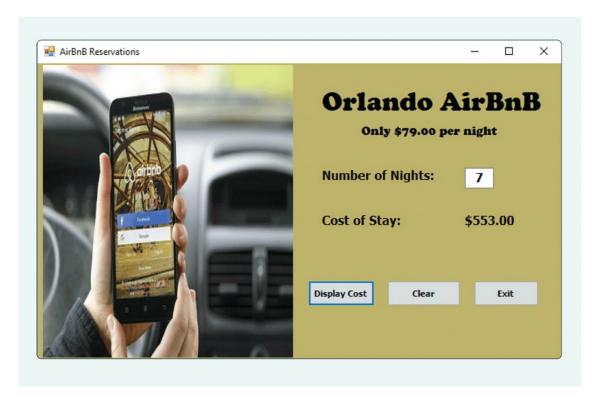
Airbnb Reservations

USE CASE DEFINITION

- 1. The Windows Classic Desktop application opens.
- 2. The user enters the number of nights.
- 3. The user clicks the Display Cost button.
- 4. The program displays the total cost for the Airbnb stay.
- 5. The user can click the Clear button and repeat Steps 2 through 4.
- 6. The user exits the program by clicking the Exit button.

FIGURE 4-92

Screenshot of GUI



Instructions:

Rename all controls using our naming convention.

Form Load event:

- 1. Cost of Stay label control is cleared.
- 2. The textbox is cleared and has focus.

btnClear click event:

- 1. Cost of Stay label control is cleared.
- 2. The textbox is cleared and has focus.

btnExit click event:

1. Program closes.

btnCost click event:

- 1. Write code to create to following variables:
 - a. strNumNights
 - b. intNumNights
 - c. decTotalCost
- 2. Write code to create the following constant and initialize it to the value specified in the requirements:
 - a. cdecCostPerNight init to 79D (D for Decimal!)
- 3. Convert the strNumNights value from the textbox to an Integer and store ii in the intNumNights variable.
- 4. Calculate the cost of stay amount.
- 5. Display the results on the form:
 - a. Convert the decTotalCost amount to String and assign it to the Text property of the Cost of Stay label. Be sure to display as currency!