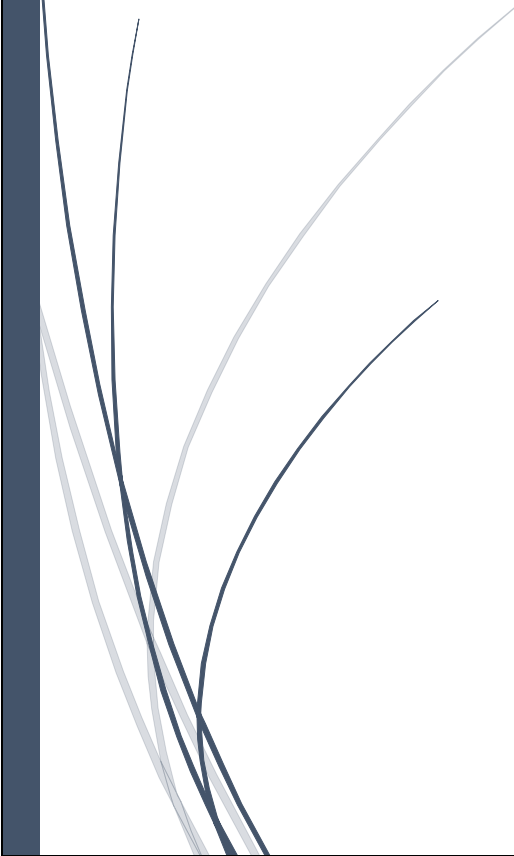# Project Report

Hotel Management System

Group 14

PS/2019/135 – W.M.S.S. Wickramasinghe

PS/2019/126 – R.P.D. Migara

PS/2019/026 – G.M.D. Mahindapala

PS/2019/055 – G.D.D.S. Sarathchandra

PS/2019/199 – K.D.R. Tharushika

Table of Contents

Abstract

This is the project report document for the created hotel management system of The Glory Hotel. It covered the hotel's existing situation as well as issues that have arisen because of the current system.

After gathering requirements, we found that The Glory Hotel uses a manual file-based system for its low processes. They are keeping a huge number of files to handle guest details, bills, items… etc. the purpose of this hotel management system automates the existing manual system with the help of java language fulfilling their requirements. So that their valuable data can be stored for a longer period with easy access.

The project aimed to build a fully functional system to achieve efficiency in hotel management. The overall goal of system development is for hotel workers to be able to accomplish hotel management tasks swiftly and easily.

Introduction

The Glory Hotel is one of the famous tourist hotel located in Badulla. Its history extends up to 50 years. Most tourists visit this place due to several reasons such that its iconic location, and panoramic view of a waterfall from the hotel. Both local and foreign guests reserve rooms, conduct meetings, celebrate parties, and many other functions at the hotel.

Currently, The Glory Hotel is using a manual system to handle the hotel processes. When guests make a reservation, call the reservation details including guest details are recorded in a file. Calculations of bills and inventory items are also done manually. So, we created a hotel management system using java language. They can keep their data long period using this system.
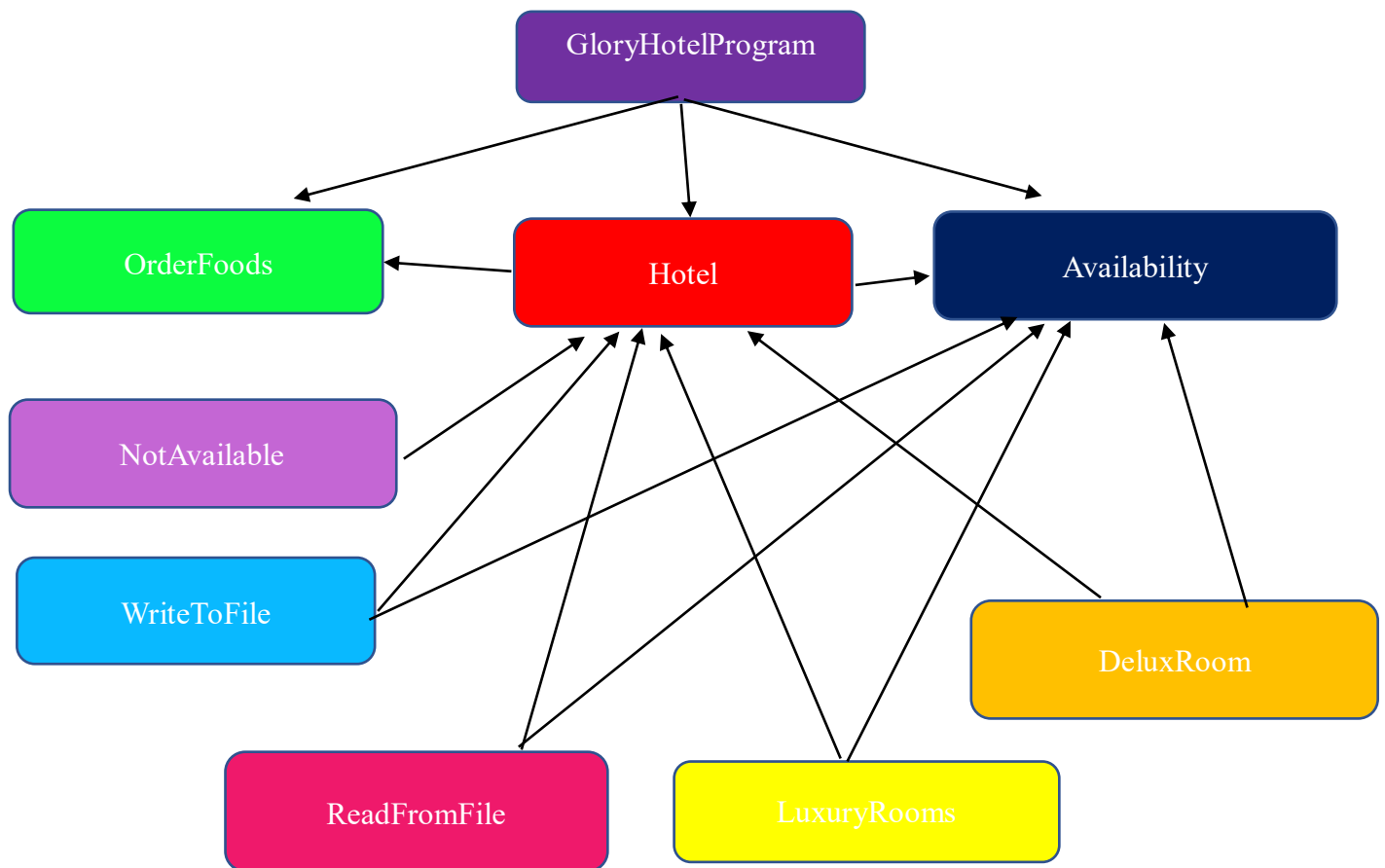
The hotel management system has been developed to override the problems prevailing in the practicing manual system. This system is supported to eliminate, and some cases reduce the hardships faced by the existing system. Moreover, this system is designed for the needs of the hotel to carry out operations smoothly and effectively.

The application is reduced as much as possible to avoid errors while entering the data. It also provides an error message while entering invalid data. No formal knowledge is needed for the user to use this system. Every organization, whether big or small has challenges to overcome and manage the information of customer details, room details, hotel bills, food bills, etc. So, this system helps to manage these functions. Hence this hotel management will ultimately allow management to better manage resources.

```
================================================================================
   TTTTTTTTT  HHH HHH  EEEEEEEE      GGGGGGG    LLL         OOOO      RRRRRR    YYY    YYY
      TTT     HHH HHH  EEE           GGG        LLL      OOO  OOO    RRR  RRR   YYY YYY
      TTT     HHHHHHHH EEEEEEEE      GGG    GGG LLL      OOO    OOO  RRRRRRR      YYY
      TTT     HHH HHH  EEE           GGG  GGG G LLL      OOO  OOO    RRR RRR      YYY
      TTT     HHH HHH  EEEEEEEE       GGGGG  G  LLLLLLL     OOOO     RRR  RRR     YYY

================================================================================
================================================================================
```

The flow of the project

The implementation of the hotel management system for The Glory Hotel begins with the data gathering of requirements and examining the background of the hotel. Although the current system is a manual and file-based one, we realize that the system we are going to build must give the solution of waste of time and the amount of space available has an impact on the efficiency of the hotel's everyday operations. We are decided to use java programming and build the hotel management system.

The objective of the project on the hotel management system

The main objective of the project on the hotel management system is to manage the customer details, booking details, room availability details, checkout details, food bills, and room bills. It manages all the information about the room, customers, and food. The purpose of the project is to build a hotel management system to reduce the manual work of managing the room, customers, booking, and bills.

Data requirements of The Glory Hotel Management System:

- ❖ Customer details
    - ➢ Customer Name
    - ➢ Contact number
    - ➢ Email address
    - ➢ ID number
- ❖ Room numbers
- ❖ Room details and Prices
- ❖ Food type
    - ➢ Breakfast
    - ➢ Lunch
    - ➢ Dinner
- ❖ Prices of food

Functionalities provided by The Glory Hotel Management System:

- ❖ Provides the search facilities. Such as Room details, availability of rooms, food types

- ❖ Manage the customer information.

- ❖ Manage the room details.

- ❖ This system can get customer details and book a relevant room that customers chose.

- ❖ Can save customer details to relevant deluxe room types and Luxury room types.

- ❖ Displaying the "Not Available" message when re-booking the booked room.

- ❖ When customer checkout successfully deletes customer details.

- ❖ Display the food types and available foods. After that display the bill.

- ❖ Saving customer details to a text file.

- ❖ To read customer details from a text file.

When we save our booking details to a text file and read details from it. We additionally refer to some relevant websites. These are the resources we refer to:

References

Gopaldave. (2018, 10 16). *GeeksforGeeks*. Retrieved from Scanner hasNextLine() method in Java with Examples: https://www.geeksforgeeks.org/scanner-hasnextline-method-in-java-with-examples/

Grepper. (n.d.). Retrieved from Read a file line by line assigning to variable using bufferedreader: https://www.codegrepper.com/code-examples/java/read+a+file+line+by+line+assigning+to+variable+using+bufferedreader

Grepper. (n.d.). Retrieved from Read text file with values in each line java: https://www.codegrepper.com/code-examples/java/read+text+file+with+values+in+each+line+java

stackoverflow. (2010). Retrieved from How do I create a file and write to it?: https://stackoverflow.com/questions/2885173/how-do-i-create-a-file-and-write-to-it

stackoverflow. (2012, 11). Retrieved from How to remove specific value from string array in java?: https://stackoverflow.com/questions/12812307/how-to-remove-specific-value-from-string-array-in-java

Teamwork

- Introduction – All the group members
- Class 03, 08 & 09 – PS/2019/135(W.M.S.S. Wickramasinghe)
- Class 03, 08 & 09– PS/2019/126(R.P.D. Migara)
- Class 01, 02 & 04 – PS/2019/026(G.M.D. Mahindapala)
- Class 01,04 & 07 – PS/2019/055(G.D.D.S. Sarathchandra)
- Class 05,06 & 07 – PS/2019/199(K.D.R. Tharushika)