## 1. Introduction

## 1.1 Purpose of the system

The Hotel Reservation System is a reservation system which aim to offer easy and well design to customer to make reservation and offer detailed information about rooms and reservations to manager to check system. Program is easy to understand, customers make their booking with pleasure and easy way, and manager can access room details practically with their access code.

Main advantages of the system is choosing features of the room while making reservation. If customer choose just to stay in the room with basic form of it, customer pay less and customer does not have to choose fixed features, customer can decide which feature is important for him like laundry, breakfast or tv.

## 1.2 Design Goals

### Performance:

For the system, it is important to how quickly the system reacts to user input because this situation can cause to distract customers’ interest and comfort. Our system can response quickly at each step (1 second), because the main purpose is to make reservation quickly and efficiently.

### Adaptability:

The hotel reservation system is coded with Java. Java provide user to use program with all JRE installed platforms.

### Extensibility:

In software engineering, reusability and extendibility are two importance concepts. Hotel Reservation System suitable to be extended and re-used for future works because separation of controller, view and model classes offer to change or add new features without modifying anything in other classes.

### Usability:

Easy use of program is important functionality because it makes system more charming. Our program provide user with easy and clear interface to understand and make their booking swiftly. We specially focus on the plainness of the program, so users can use program without prior knowledge.

### Reliability:

The system should not demonstrate with unexpected crashes due to software bugs, so separate tests will be practiced , and exceptions and boundary conditions will be performed so carefully in order to avoid unconsidered conditions.

## **1.3** Definitions, acronyms, and abbreviations

Abbreviations:

MVC: Model View Controller

## 2.1 Overview

Hotel Reservation system consists of several subsystems. We use MVC structure and our system is decomposed based on this structer type. By dividing the system to subsystems, our goal is to manage the system more easily. And also it enables us code reusability. We can make changes easily.

## 2.2 Subsystem Decomposition

For a good organization, it is essential to seperate sytem into subsystems. Therefore, ur subsystems are basically based on models, views and controllers.

## 2.3 Hardware / Software Mapping

Our Hotel Reservation System will be coded in Java programming language and use java runtime environment. Mouse and keyboard will be used to interact with the program, users will determine reservation details by using keyboard and mouse. A standard computer with operating system and java compiler will be needed to run program. Hotel Reservation Program does not require internet connection, it is desktop program. The program will keep data by using .txt based structures which compose of details of the every separate reservation.

## 2.4 Persistent Data Management

In our system, we use text file to store the data. Our data is about basically customer, manager and reservations. We keep customer’s info whic are name, surname and for the manager also we keeps name, surname and ID for the system enterance.

## 2.5. Access Control and Security

In our system, there is no need to connect any network, our program works on the desktop. Therefore, Hotel Reservation System performs without any control for access. However, we keeps information about our customers, also managers. Therefore, security is an significant issue to consider it.

## 2.6 Boundary Conditions

**Initialization**

Our program does not require any installization. It can be opned by a simple .jar file.

**Termination**

User can exit the program simply by clicking exit button and in the program there are several buttons to return the back page.

**Error**

If an error occur during the information enterence or before the storage, all information kept by the sytem, can disappered unfortunately. Other than that. some errors happens during the program works, so user must be close the program and he or she can start the program again.

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