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| [Company name] |
| Hotel Management System Requirements |
| [Document subtitle] |

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# Introduction

This document covers the system level and high level requirements for the Hotel Management System software. This software will be referred as ‘Peach’ elsewhere in this document.

# Requirements

## System requirements

S1 Peach shall use input information (e.g. check in/out date, room type, etc.) to search for vacant rooms.

S2 Peach shall identify each booking with a unique number.

S3 Peach shall store booking information for later retrieval.

S4 Peach shall allow the update of room status (i.e. vacant, booked, upcoming check-in/check-out, cleaning).

S5 Peach shall notify upcoming check-in/check-out events for a room.

S6 Peach shall be a Java application.

## High Level Requirements

S1H1 The following information shall be obtained before every booking:

* Customer information: first and last name, nationality, DOB, gender, ID type and ID number.
* Contact details: Mobile phone, address, email address.
* Booking information: Check-in/out date, room type, number of customers.

S1H2 The room information shall be available from a database.

S1H3 The room information shall include the following:

* Room type.
* Telephone extension.
* Room status: vacant, booked, upcoming check-in/check-out, cleaning.
* Check-in/out date.
* Relevant booking reference.

S1H4 The vacant rooms shall be listed in the form of a table.

S2H1 Peach shall provide a mean to generate a unique booking number for each booking.

S3H1 Each booking shall have the information mentioned in S1H1 and S1H3.

S3H2 Each confirmed booking shall be saved into a database.

S3H3 The database shall have a table for booking confirmations.

S3H4 The database shall have a table for room status.

S3H5 The database shall have a table for pricing.

S4H1 Peach shall allow changing room status to ‘booked’ upon agreeing the booking with the customer.

S4H2 Peach shall allow changing the room status to ‘vacant’ in the event of:

* Cancelation.
* Check-out complete.

S4H3 Peach shall allow changing room status to ‘checked-in’ upon the customer’s arrival.

S5H1 Peach shall generate a list of check-ins on a particular date on request.

S5H2 Peach shall generate a list of check-outs on a particular date on request.

S6H1 Peach shall be an offline Java application.

S6H2 Peach shall have a MySQL database.

# Future Work

## Web application

Although this proof of concept application provides basic functionality for the process of hotel management, it is confined in an offline environment. Hence functions such as booking or updating room status can only be on a PC running the application.

In order to provide a more flexible way of operating the same functionalities on other platform, a web interface would be considered in the next iteration of the project. It would eliminate the OS dependent nature of a normal Java application. It can also be operated on mobile platform.

## Database encryption

Customer information and privacy is of the utmost important for a business. A security management scheme of the database will need to be implemented in order to satisfied this need.

## Authentication

The proof of concept Java application does not have any requirement for user authentication. Hence malicious activity cannot be monitored. A multi-privilege scheme to limit the ability of a user to the database has to be implemented.

# Use Cases

## Booking

## Check-in

## Check-out

## Cancelation