**HOTEL MANAGEMENT SYSTEM**

***Business role***

The purpose of this document is to provide a summary of database design and application user guide for the development of the **Hotel Management System (HMS)**. It defines and describes the operations, interfaces, and quality assurance requirements of the software.

***Scope***

The objective of the project is to describe the software requirements of the Hotel Management System. The system will facilitate an information system that a hotel can use to manage the customers and maintain the hotel.

To complete the data model, we must determine a necessary relationship between entities as well as attributes for each entity.

* A management includes a unique employee no for employees,job,employee name,salary.
* A cutomer Detail includes one unique cutomer id,Name,address,Phone number,room no,check in,check out,customer status and one employee name for giving service to customer.
* Each room has a unique room id,room type,no of room,no of days,rent value,total amount and customer id for relation. Also has a room detail for detailed information.
* A food detail indicates that there was one or more item in food type,iteam no,food detail,order no,total cost.
* Each service has a unique service type ,service detail,service cost and a report for customer's experience in living there.Also has a service detail for detailed information.
* A payment indicates that there are one or more payment type.

The ERD model shows the entities and relationships described above.

***Business requirements:***

Concerning *the management*:

1. A management has a unique employee number and a specific name is its employee name.
2. A job indicates that hotel has diffrent kind of job and specific salary.

Concerning the cutomer detail:

1. Whe record each customer in unique customer id.
2. Each of cutomer id include customer name,address,phone number,room no,purpose,check in,check out,customer status.
3. A employee name for customer service.

Concerning room and room detail:

1. Each room has a unique room number for specify.
2. Each room has a room type for specific type and number of room,number of days,total amount,rent values and room status.

Concerning food and food detail:

1. Each food has a unique item number for specify.
2. Each food has a specific food type and food detail.
3. Each food has order number and a total cost.
4. A customer id for relation.

Concerning service and service detail:

1. A Service has a unique service type for customer.
2. Each service has a specific service detail,service cost.
3. Each service has a report for customer comment.

Concerning payment:

1. Each payment has a unique payment for customer.
2. A customer id for relation.

***Integrity Constraints:***

* A customer detail has a primary key customer id and a foreign key employee name.
* A room has a primary key room number and a foreign key customer id.
* A food has a primary key item number and a foreign key customer id.
* A service has a primary key service type and a foreign key customer id.
* A payment has a primary key payment type and a foreign key customer id

***Report:***

As a hotel management system,it has to take a record about customer,room detail,food detail,service detail,payment method and a management team.

System components:A management system contains one service subsystem.A service system contains customer system:customer detail.A customer system contains two subs systems:room system and food system.Room system contains room detail information and food system contains food detail information.