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Project Overview:

The Atlantic hotel is using a crap manual system to handle hotel business processes which is really not clever as the current system is file based and the management of the hotel must put much effort on securing those files, andthey can be damaged by fire or stolen. Looking for some old reservations can take alot of time since there is no easy way to look it up. As a software engineers, we want to make this easier for you by creating a database system that will save you alot of hours with storing your records and keeping everything clean together.

It will be User-friendly interfaces which will provide guests with an online web based GUI to search for room categories and availability, bookings, faciliate hotel staff management and more.

Problems in existing system:

1: Hotel business processes are stored manually in a cabinet which could get destroyed by fire.

2: Alot of effort is put in to secure the files.

3: Files will always keep growing and that requires more trees to be cut down to make paper ☹.

4: Files coule be stolen by anyone who has access or steals keys to the access.

5: Checking previous room records takes long time and effort.

6: Guests can not look for rooms and make reservation by them selves.

7: calculations of bills and inventory items are done manually and can cause accuracy problems.

Solution to the problem:

Solution to the problem can be done with what i have mentioned here above and that would help improve these things :

* To enable online booking via the internet.
* Increase security to avoid unauthoriezed access to guest records.
* To enable automated data entry methods.
* Enable fast and easy retrieval of guest records and data for fast reference activities.
* Ensure efficient and reliable communication within the hotel.
* Back up facility provided in case of data loss.
* Cost benefits

New System Objectives:

* Old system is manually, new system will be automatic
* In the new system there will be much more security
* User friendly system that is easy to use for everyone.
* Guest details.
* Reservation details.
* Inventory management details.
* Room services.
* Staff management.
* Our system will be awesome.

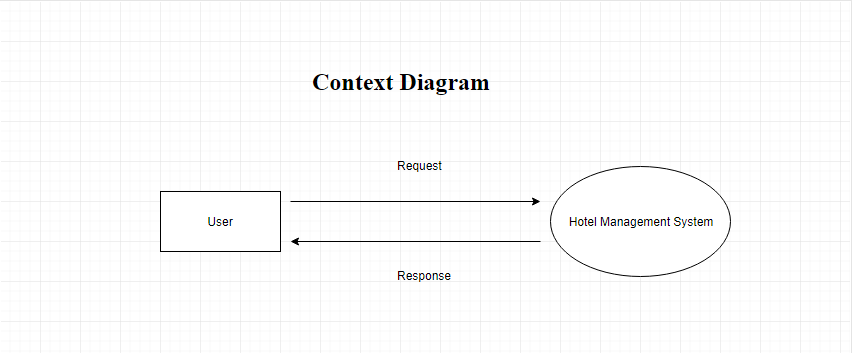
List Of Events:

* Reserve rooms.
* Conduct meetings.
* Celebrate cocktail parties.
* Weddings.
* Birthdays.

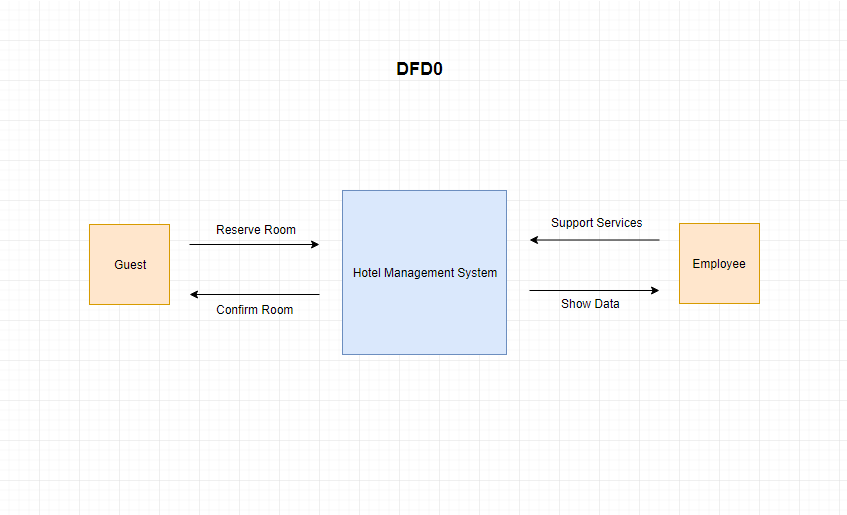
List Of Actors:

* Guests
* Employees

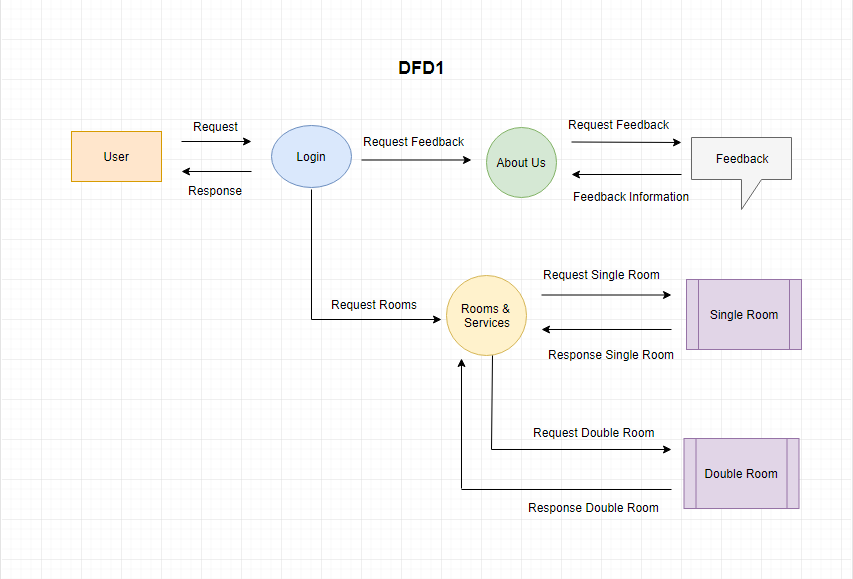
Context Diagram:

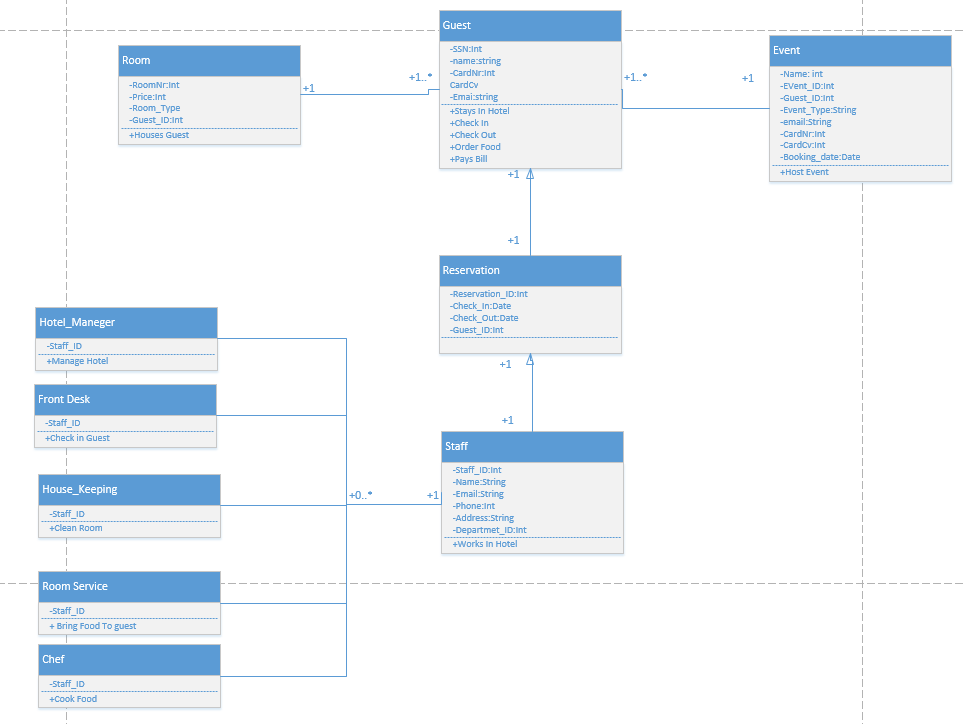


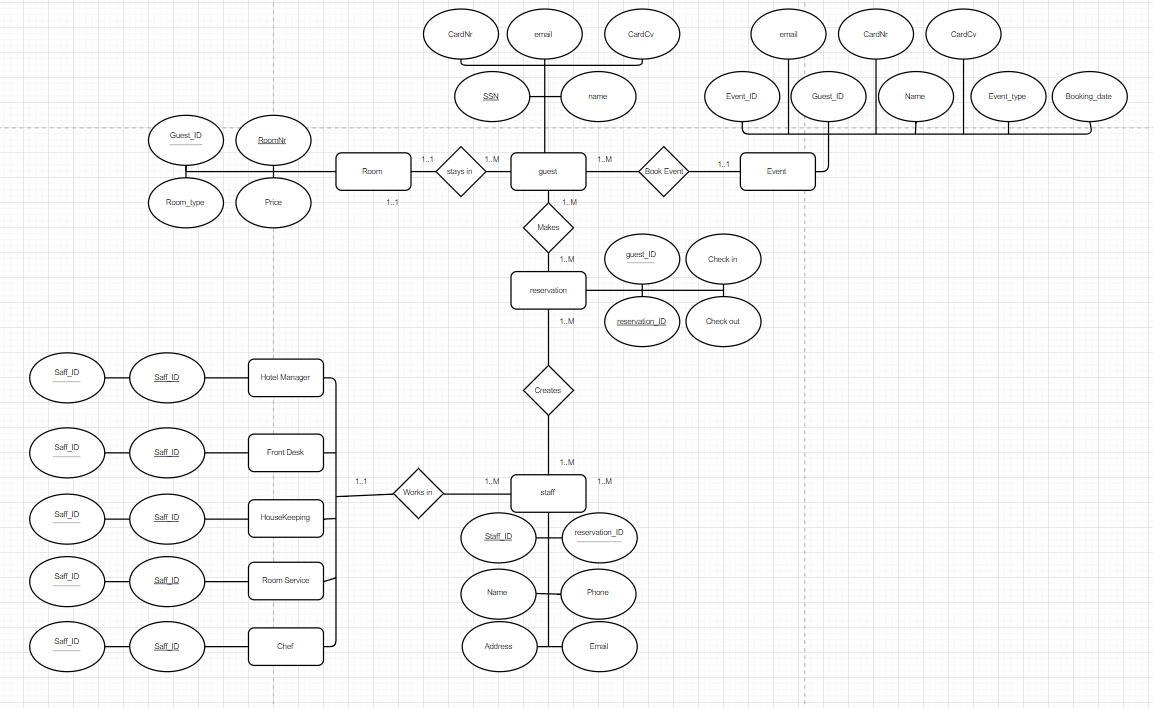
Data Flow Diagram Level 0:

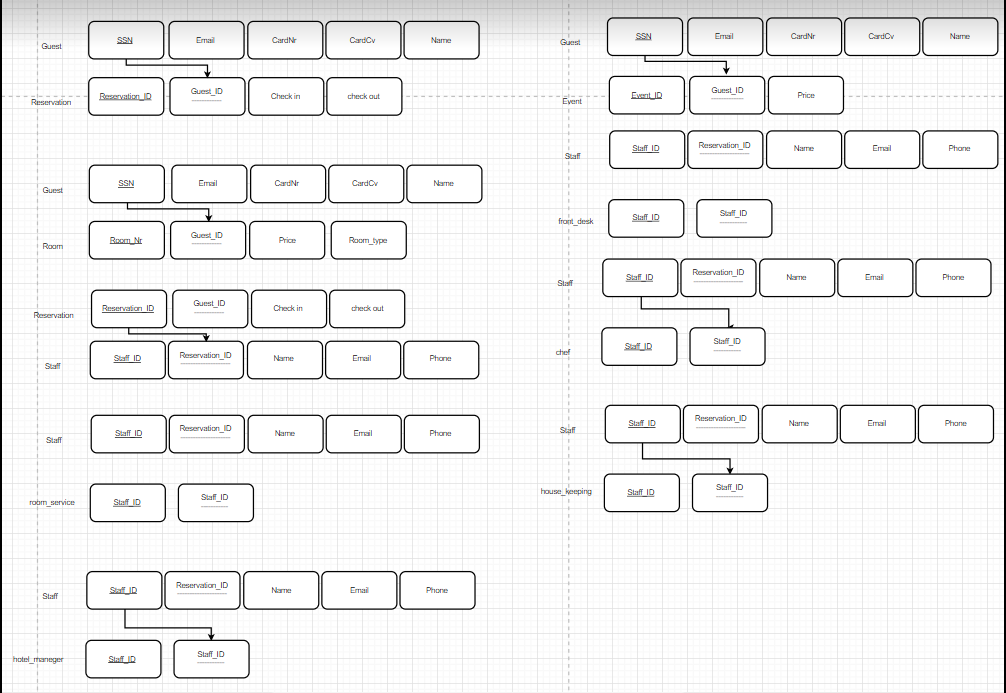


Data Flow diagram Level 1:



ER-model in UML:

Er Diagram:

ER Mapping:

SQL Code:

create table staff

(

staff\_id int primary key not null,

Name varchar(50),

phone int,

address varchar(50),

email varchar(50)

);

CREATE TABLE IF NOT EXISTS 'hopverkefni'

(

ID int(11) NOT NULL AUTO\_INCREMENT PRIMARY KEY,

name varchar(60) NOT NULL,

email varchar(60) NOT NULL,

roomType varchar(60) NOT NULL,

doa varchar(60) NOT NULL,

dol varchar(60) NOT NULL,

cardNum varchar(60) NOT NULL,

cv varchar(60) NOT NULL,

);

create table departments

(

departments\_ID int primary key not null,

hotel\_maneger int,

front\_desk int,

chef int,

house\_keeping int,

room\_service int,

staff\_ID int,

foreign key (staff\_ID) references staff(staff\_ID)

);

create table guest

(

SSN int primary key not null,

name varchar(50),

CardNr int,

CardCv int,

email varchar(50)

);

create table reservation

(

reservation\_ID int primary key not null,

check\_in date,

check\_out date,

guest\_ID int,

foreign key (guest\_ID) references guest(SSN)

);

create table room

(

roomNr int primary key not null,

price int,

RoomType int,

guest\_ID int,

foreign key (guest\_ID) references guest(SSN)

);

create table Event

(

Event\_ID int primary key not null,

Name varchar(50),

Email varchar(50),

Event\_Type varchar(60),

guest\_ID int,

CardNr int,

CardCv int,

Booking\_date date,

foreign key (guest\_ID) references guest(SSN)

);

create table Hotel\_Manager

(

Staff\_ID int primary key not null,

foreign key (Staff\_ID) references staff(Staff\_ID)

);

create table

(

Staff\_ID int primary key not null,

foreign key (Staff\_ID) references staff(Staff\_ID)

);

create table Front\_Desk

(

Staff\_ID int not null primary key,

foreign key (Staff\_ID) references staff(Staff\_ID)

);

create table HouseKeeping

(

Staff\_ID int primary key not null,

foreign key (Staff\_ID) references staff(Staff\_ID)

);

create table Room\_Service

(

Staff\_ID int primary key not null,

foreign key (Staff\_ID) references staff(Staff\_ID)

);

create table Chef

(

Staff\_ID int primary key not null,

foreign key (Staff\_ID) references staff(Staff\_ID)

);

-------------------------------------------------------------------

insert into staff()

values

(1,"Aron",8482690,"aaa","aront@hotmail.com"),

(2,"Jon",6451645,"afasdf","jon@gmail.com"),

(3,"petur",845460,"pp","Petur@hotmail.com"),

(4,"atli",1235234,"at","atli.com"),

(5,"johanna",123123,"jp","jonna.com");