**CS 6314 Web Programming Language**

**Final Project Report**

* **Project Title:**

Hotel reservation system

* **Name for the Website:**

[Super Hotel](http://localhost:3000/index)

* **Project Description:**

This project the website of Super Hotel. On this website, users will find all information they are looking for about this hotel. On top of that, users can check availability of any rooms on and dates/nights. Users can also book the rooms through this website once they have registered as a member.

The admin of the website, i.e. Super Hotel, will make changes to the database of the inventory of their rooms according users’ reservation. The admin changes what to be showed on the website according to the inventory for each date/night.

Besides, the admin can edit the description of or delete a room base on the change of the room, e.g. the part of the feature is altered.

or the whole rooms is reconstructed to a totaling different room, so the original one should be deleted from the website. However the data of the deleted room will still be kept in the database.

* **Database Design:**

IMAGE of relationship

“Create Table” statements:

|  |
| --- |
| create table hotel(  hotel\_id varchar(10) not null,  hotel\_name varchar(50) not null,  hotel\_instruction varchar(300) null,  address\_street\_number varchar(100) not null,  address\_city varchar(15) not null,  address\_state\_province varchar(15) null,  address\_country varchar(30) not null,  zipcode varchar(15) not null,  star\_rating float null,  contact\_name varchar(20) not null,  contact\_phone varchar(20) not null,  contact\_email varchar(30) not null,  primary key (hotel\_id)  );  create table amenities (  amenity\_id int auto\_increment,  amenity varchar(25) not null,  primary key(amenity\_id)  );  create table hotel\_amenities(  hotel\_id varchar(10) not null,  amenity\_id integer  );  create table room\_type (  room\_id int auto\_increment,  room\_feature varchar(250),  room\_name varchar(60),  primary key (room\_id)  );  create table hotel\_room (  hotel\_id varchar(10) not null,  room\_id int not null,  rooms\_availability boolean default true,  total\_num int not null,  room\_price float not null,  primary key(hotel\_id, room\_id)  );  create table room\_not\_available\_date (  hotel\_id varchar(10) not null,  room\_id int not null,  not\_available\_date date not null,  not\_available\_num int not null,  primary key(hotel\_id, room\_id, not\_available\_date)  );  create table bed(  bed\_type varchar(20) not null,  capacity int not null,  primary key (bed\_type)  );  create table room\_bed(  room\_id int not null,  number\_of\_beds int not null,  bed\_type varchar(20) not null  );  create table photo(  photo\_id int auto\_increment,  photo\_address varchar(100) not null,  primary key(photo\_id)  );  create table room\_photo(  room\_id int not null,  photo\_id int not null  );  create table hotel\_photo(  hotel\_id varchar(10) not null,  photo\_id int not null  );  create table bed\_photo(  bed\_type varchar(20) not null,  photo\_id int not null  ); |

* **Languages/frameworks used for implementation:**

Node.js

* **Screenshots for main functionalities (5-6 screenshots will be sufficient)**
* **Team Members:**

**JXL180022 – JuChen Lin**

**Yuantai Fu**

* **Work division among team members:**
* who has completed which part (be specific and try to give page names). Please note that every team member should be actively involved in every step of the project development (database design, client-side and server side scripting) and work should be equally divided between team members.