

Online Hotel Reservation

Project Report

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Name for the Website: Hotel Reservation

Project Description:

This project mainly requires us to design a hotel reservation website and to implement the function of online hotel reservation. Taking these into consideration, we first try to design the main function of our website. According to the requirements, we need to implement the following functionalities:

- User sign-up: Register a new user to the system.
- Check the new username if it's already registered to the system using AJAX.
- Form validation: Check if all mandatory fields are filled out. (JQuery)
- Check if password is strong enough. (At least 6 characters) (JQuery)
- Error and correct information will be shown once the field is validated
- User log in
- Search and list available hotels for reservation in the system. User should be able to filter the results based on price. Also, should be able to “Search” for a specific hotel.
- Reserve a hotel as a registered user or a guest
- Show the history of hotel reservation for the user.
- Cancel the order(only for registered user)
- Change information of user/admin

- Auto log in if last time the user didn't sign out(Cookies,Session)
- User sign out
- For Admin user(s):
 - Add a new hotel
 - Delete a hotel
 - Update a hotel
 - Search a hotel (based on hotel name and zip code)
- Prevent access to the admin page from normal user(improve security)

Database Design:

```
-- -----
-- Table structure for `city`
```

```
DROP TABLE IF EXISTS `city`;
CREATE TABLE `city` (
  `c_id` int(11) NOT NULL AUTO_INCREMENT,
  `name` varchar(30) NOT NULL,
  `s_id` int(11) NOT NULL,
  PRIMARY KEY (`c_id`)
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT
CHARSET=utf8;
```

```
-- -----
-- Table structure for `hotel`
```

```
DROP TABLE IF EXISTS `hotel`;
CREATE TABLE `hotel` (
  `h_id` int(11) NOT NULL AUTO_INCREMENT,
  `name` varchar(50) NOT NULL,
  `address` varchar(255) NOT NULL,
  `s_id` int(11) NOT NULL,
```

```
`c_id` int(11) NOT NULL,  
`zipcode` int(8) NOT NULL,  
PRIMARY KEY (`h_id`)  
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT  
CHARSET=utf8;
```

```
-- -----  
-- Table structure for `orders`  
-----
```

```
DROP TABLE IF EXISTS `orders`;  
CREATE TABLE `orders` (  
    `ordernum` varchar(255) NOT NULL,  
    `starttime` date NOT NULL,  
    `endtime` date NOT NULL,  
    `username` varchar(20) DEFAULT NULL,  
    `email` varchar(50) DEFAULT NULL,  
    `phone` varchar(20) NOT NULL,  
    `total` float NOT NULL,  
    `status` varchar(20) NOT NULL,  
    `description` varchar(255) DEFAULT NULL,  
    `h_id` int(11) NOT NULL,  
    `r_id` int(11) NOT NULL,  
    `name` varchar(30) NOT NULL,  
    PRIMARY KEY (`ordernum`),  
    KEY `o_foreign`(`h_id`),  
    CONSTRAINT `o_foreign` FOREIGN KEY (`h_id`) REFERENCES  
    `hotel`(`h_id`) ON DELETE CASCADE ON UPDATE CASCADE  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
-- -----  
-- Table structure for `room`  
-----
```

```
DROP TABLE IF EXISTS `room`;  
CREATE TABLE `room` (  
    `r_id` int(11) NOT NULL AUTO_INCREMENT,
```

```
`num` int(11) NOT NULL,  
`rt_id` int(11) NOT NULL,  
`h_id` int(11) NOT NULL,  
PRIMARY KEY (`r_id`),  
KEY `h_id` (`h_id`),  
CONSTRAINT `h_id` FOREIGN KEY (`h_id`) REFERENCES `hotel`  
(`h_id`) ON DELETE CASCADE ON UPDATE CASCADE  
) ENGINE=InnoDB AUTO_INCREMENT=15 DEFAULT  
CHARSET=utf8;
```

```
-- -----  
-- Table structure for `roomtype`  
-----
```

```
DROP TABLE IF EXISTS `roomtype`;  
CREATE TABLE `roomtype` (  
`rt_id` int(11) NOT NULL AUTO_INCREMENT,  
`h_id` int(11) NOT NULL,  
`name` varchar(30) NOT NULL,  
`price` float NOT NULL,  
`info` varchar(255) DEFAULT NULL,  
PRIMARY KEY (`rt_id`),  
KEY `rtForeign` (`h_id`),  
CONSTRAINT `rtForeign` FOREIGN KEY (`h_id`) REFERENCES  
`hotel` (`h_id`) ON DELETE CASCADE ON UPDATE CASCADE  
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT  
CHARSET=utf8;
```

```
-- -----  
-- Table structure for `state`  
-----
```

```
DROP TABLE IF EXISTS `state`;  
CREATE TABLE `state` (  
`s_id` int(11) NOT NULL AUTO_INCREMENT,  
`name` varchar(255) NOT NULL,  
PRIMARY KEY (`s_id`)
```

```
) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT  
CHARSET=utf8;
```

```
-- -----  
-- Table structure for `userinfo`  
-- -----
```

```
DROP TABLE IF EXISTS `userinfo`;  
CREATE TABLE `userinfo` (  
  `email` varchar(50) DEFAULT NULL,  
  `phone` varchar(20) NOT NULL,  
  `name` varchar(30) NOT NULL,  
  `username` varchar(20) NOT NULL,  
  `password` varchar(20) NOT NULL,  
  `type` char(1) NOT NULL DEFAULT 'u',  
  PRIMARY KEY (`username`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

Languages/framework used for implementation:

Server side scripting: PHP

Client side scripting: HTML, CSS, Javascript, Bootstrap, AJAX, JQuery

Work division among team members:

Mengdi Deng is responsible for:

- 1.Database design
- 2.Html pages: index.html, account.html
- 3.PHP files: searchCity.php searchState.php addRoom.php

DbOperation.php

4.JS files: administrator.js index.js

5.Project report

Lei Gao is responsible for:

1.Database design

2.Html pages: administrator.html booking.html

3.PHP files: addHotel.php delHotel.php editHotel.php

findHotel.php searchHotel.php updateHotel.php

DbConnection.php

4.JS files: administrator.js index.js

Weijian Zeng is responsible for:

1.Database design

2.PHP files: cancel, change, create, search Order php files

add, delete, search, update RT php files

autoLogin.php checkAdmin.php checkUsername.php

login.php logout.php retrieveInfo.php signup.php

updateUser.php

3.JS files: index.js validate.js account.js booking.js order.js

User.js

Screenshots for main functionalities:

Search hotels page:

Hotel Reservation

My Account Login Signup Logout

Hello, You've Reached

HOTEL RESERVATION

SEARCHING BOOKING MANAGING

Select state (select one): TX

City: Dallas

Check in: 03/12/2015 Check out: 04/12/2015

Hotel Name: aloft

price filter Ascending Descending

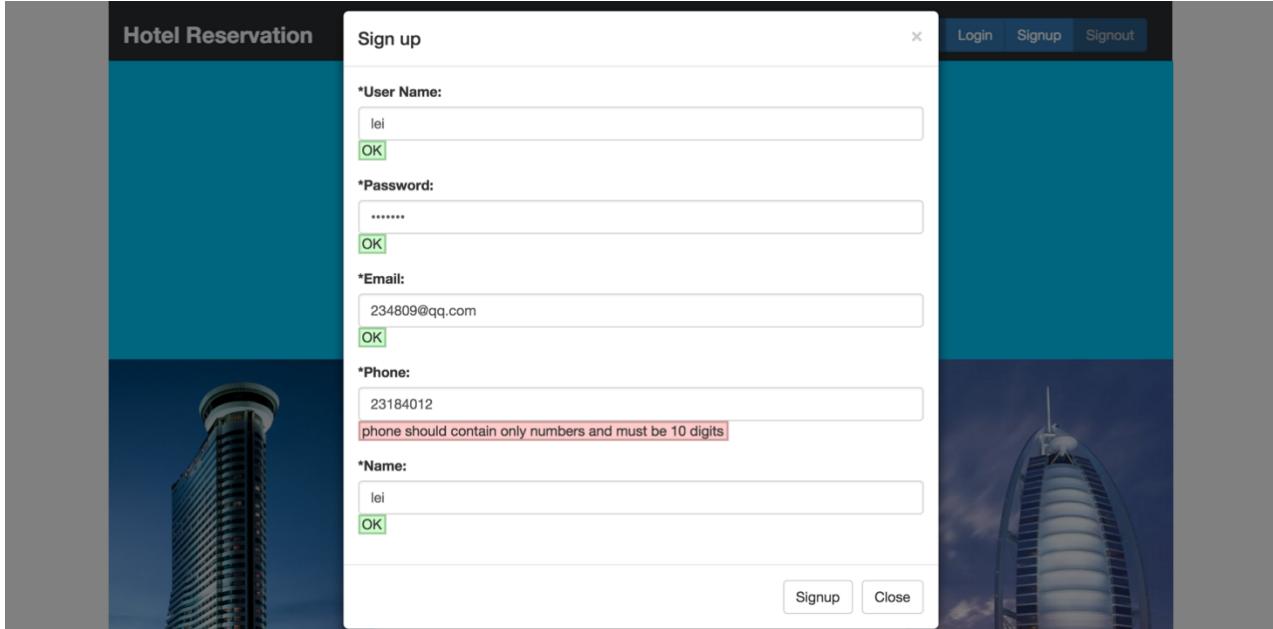
Submit



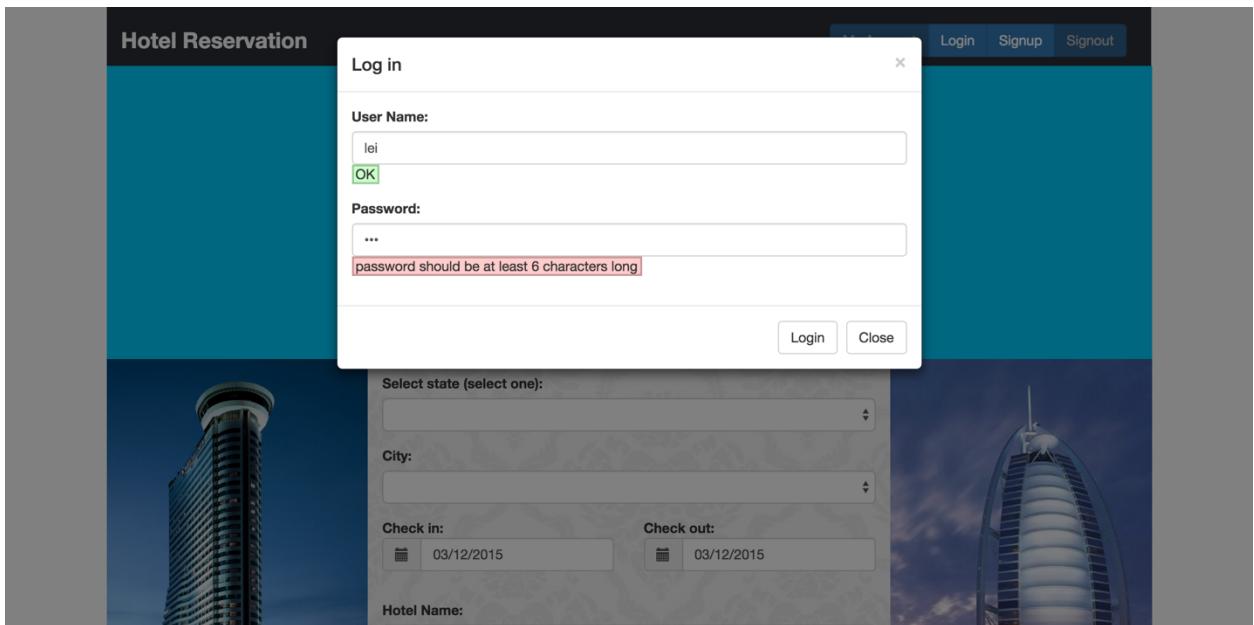
Hotel name	Address	Room type	Room info	price	Operation
Aloft Plano	N, 6853 Dallas Pkwy, Plano 75025	Single Room	maximum 2 people	30	book
Aloft Plano	N, 6853 Dallas Pkwy, Plano 75025	Double room	maximum 4 people	80	book

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Sign up page:



Log in page:



Booking page:

Hotel Reservation

[My Account](#) [Login](#) [Signup](#) [Signout](#)

Booking

Hotel Name:

Address:

Price:

Name:

OK

Email:

Phone:

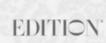
OK

Check in: **Check out:**

Requirement:

Submit

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Add hotel page:

Hotel Reservation

Profile Add Edit Signout

Administrator

Hotel Name:
Double Tree
OK

Select state (select one):
TX
OK

City:
Austin
OK

Zip-code:
75012
OK

Address:
Austin
OK

Room Type	Price	Info	Room Number
suite	380	one king bed	101,102,103,1
twin	120	two queen be	202,203,204
king	220	two queen be	301,302,303

Add 

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Edit hotel page:

Hotel Reservation Profile Add **Edit** Signout

Administrator

Hotel Name:

Zip-code:

Submit

Hotel Name	Address	Zipcode	Edit	Delete
Aloft Plano	N, 6853 Dallas Pkwy, Plano	75025		

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Order page:

Hotel Reservation Profile **Order** Signout

My Accounts

Hotel Name	Time	Name	Phone	Total	Status	Operation
Serrano Hotel(405 Taylor St San Francisco CA)	2015-12-10 to 2015-12-12	lei	2144026721	460	confirmed	Cancel
Aloft Plano(N, 6853 Dallas Pkwy, Plano)	2015-12-03 to 2015-12-04	lei	2144729021	30	cancelled	Cancel

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