

## CSIT 537 Web Development

### Project I Option 1

#### Design a hotel reservation system using PHP and Mysql

Team project of at most three, two preferred. Solo is fine.

The home page of your web site gives a brief introduction of your hotel (note the hotel shall be named after your real name or your team's name) which includes the address, email, phone numbers, and direction to your hotel (can make up these information to protect your privacy)

Your hotel website allows user to select check-in and check-out dates; select number of rooms; select number of adults and children. You shall validate user's selection. For example, checkout date shall be later than check in date. Number of people shall be positive etc.

Your website will only show available rooms for the duration of stay of the reservation. If there are no rooms available, then notice the user about that. When these rooms are displayed, make sure also display images for different type of rooms available. It shall list price per night and the total cost for the stay period. A user can choose the room type they want. The information of the available rooms shall be retrieved dynamically from your backend MySQL database rather than hard code.

After user submit the request, your system should store reservation information to your database. There is a confirmation page which contains fields for user to enter his/her name and correspondence information such as address, street name, city, state, phone number, email address. The room type, stay period and cost of the stay will be summarized and shown on this page. You will also provide a confirmation number to the user.

Your system will include a web-based admin system to allow hotel management team to change the database content. Such as add a new room, change how much to charge for a particular room type, etc. Note: to protect your system, you must implement a login/logout feature for system admin. Do not store the password as is. Try to store a hashed password.

Add at least three other pages. For example, local attraction, Hotel dining service, Shopping, Salon, and Computer services, etc.

The views of your system are **responsive**. You may use Bootstrap to implement all these views.

Your system allows user to search their reservation(s). To simplify your implementation, you don't have to ask user to login to the system in order to search the database. Simply use the confirmation number and others like last name or email to search. Your system should allow user to cancel their reservation(s), or modify a reservation.

## Requirements

- Use XAMPP
- Use PHP as server side script (if you decide to use others, talk to your instructor)
- Use MySQL. Design your own database and table(s).
- Use MVC pattern to design your website.
- Name your web site *yourNamePHP*
- Use of PDO when connect to database.
- Create a write up report (in word or pdf format) which include a cover page with your name, this class information, such as course name, section, instructor, etc. Second page is table of content.
- First chapter is the description of your hotel system.
- Second chapter is your system components (for example, you use MVC to design your system or something else). You can use diagram to illustrate your design if you want to.
- Third chapter is your implementation. It should include the sql file content that you submitted, the source code of all pages. You can simply copy and paste to this report
- Fourth chapter includes your test run results which shall include test run screen shots. As detailed as possible.
- Fifth chapter is discussion and conclusions. Mention about the 1. features of your web site. 2. Things for future improve. 3. The limitation of your web site.
- Video link of your demonstration of your system. A YouTube video link will do. Make sure there is narration so I can understand your demo.
- You can include a References chapter at the end or as Appendix which may contains links or any information such as conference papers, or journal papers.

## Submission

1. Zip your website which includes all your application files.
2. The sql file which can regenerate your database and create a user to connect to your database
3. The report in word or pdf format.
4. A YouTube video link to demonstrate how you design your web site, features of your web site, and how to use it.
5. Zip all above (1,2,3,4) to a folder and submit that folder to Canvas.

**Due** 3/10 before midnight

**Note 1**

Make sure your web site can run independently after one download from Canvas. I.e., it shall be portable to others' system that run XAMPP and there is no local file directory dependence on your machine.

**Note 2**

You can use Zoom to record your video demonstration.

**Note 3**

Post your demo on the web and give me the link. Post to YouTube is preferred.