



School of Information, Computer and Communication Technology

Sirindhorn International Institute of Technology

**ITS322 : Database System**

**Hotel Management System : CU@MyPlace**

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## **Abstract**

CU@MyPlace is a Hotel Management System that focuses on many general aspects of hotel management such as payment management, staff management, room management and service management. The project will try to use the idea of Relational Database to create the database that could support the system. The project is developed using PHP with mySQL in order to create Web Application that could show General Information about the hotel, Customer System that allows customer to book room and do several functions and Administration System that allows staffs to do management functions. This project simplifies complicating jobs of hotel management into simpler idea that allows us to focus on studying database and system development. Our approach to create this system will involve iterative processes of creating ER Diagrams, creating DataFlow Diagram and creating Context Diagram in order to decide the functions of the database and will be shown more in detail later in this report.

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# **Chapter 1**

## **Introduction of The Project**

### **1.1 Tourism and Information Technology**

One of the most important part of the economic growth of Thailand is " Tourism ". It provides our country much money that it becomes one of the main income of Thailand. Having brilliant natural resources, kind people, beautiful attraction and good culture are main characteristics of Thailand.

During the stay of tourists, one important part of the stay is the accommodation. There are several choices of accommodation which could be hotel, homestay, resort or even a bangalore. Those accommodations need one same thing is management system.

Since we are moving into the World of Information Technology(IT) , developing a management system for hotel(or any relating accommodations) will be needed to oriented in Information and Technology also. Developing the system and using the idea of IT could bring much more efficiency of resources and generate more income to the hotel. That is why we believe that a good Hotel Management System is very important to any accommodation business anywhere, especially Thailand.

### **1.2 Hotel Management System**

Managing a hotel does not include only booking a room for a guest, but it include so many more tasks which are complicating and hideous job to do manually. This is where Management System will handle the complex part and allow mans to work more efficiently.

Hotel Management System is expertise in management , professional managers, technicians, manuals, systems, etc. On the basis of management fees and share of profits as incentive payment , leading to the prosperity and profit for the hotel.

Our hotel management system will include

1. Hotel Information

- (a) Information about hotel/picture
- (b) Facilities
- (c) Rooms

2. Customer System

- (a) register/login system
- (b) view/edit profile information
- (c) booking system
- (d) request to hotel
- (e) payment
- (f) view the message from admin

3. Hotel Administration System

- (a) login system
- (b) staff and customer profile
- (c) view customer booking
- (d) room management
- (e) message to customer
- (f) payment system
- (g) charge money from customers

And will be demonstrated later in this report.

The term of Hotel Management System includes the management of each and every aspect related to the hotel for the attraction. Smoothness of handling things and proper management such as Booking system , Payment system , Registrations system. The better service can make more attraction for tourist and can make more the profit not only to the hotel but also indirectly to the country.

### **1.3 What is a good Hotel Management System?**

A good Hotel Management System is the system that should be comprehensive of necessary functions that can provide a high quality of service for customer. Also it must allows staffs to use the system efficiently. In other words, the system must accomplish both usability goals and user experience goals.

## **1.4 Database**

A database is a collection of information organized to provide efficient retrieval. The collected information could be in any number of formats (electronic, printed, graphic, audio, statistical, combinations). There are physical (paper/print) and electronic databases. A database could be as simple as an alphabetical arrangement of names in an address book or as complex as a database that provides information in a combination of formats.

Database can generally be looked at as being a collection of records, each of which contains one or more fields (i.e., pieces of data) about some entity (i.e., object), such as a person, organization, city, product, work of art, recipe, chemical, or sequence of DNA. For example, the fields for a database that is about people who work for a specific company might include the name, employee identification number, address, telephone number, date employment started, position and salary for each worker.

## **1.5 Database and Hotel Management System**

By taking advantage of database system we could use it to create complex system for hotel management such as manipulating payments from customer or managing room. Thus running a business of hotel will definitely use database system which will be later demonstrated in this project. Hotel Management System will need a database because to store records such as staff or customers profile, facilities information ,payment records, etc. Also these things which has relation together is a good way because we could use the functions of MySQL to manipulate them.

## **1.6 Hotel Management System : CU@MyPlace**

Our project will create the system of Hotel Management that is capable of handling customers actions and staff actions.

Firstly, the project will include a website that has information of a hotel. We developed it using HTML and CSS. Then the website will bring customer to the booking area which allows user to pick a room and date, then pay for the selection and print confirmation for visiting the hotel.

Second, the customers will have their system for viewing or modifying bookings. They also capable of sending request tickets to hotel for some special preparation.

Third, the administration system will allow staffs to do hotel management duties such as seeing booking, managing status of rooms or contacting customers.

# **Chapter 2**

## **Project**

### **2.1 ER Diagram**

The system includes total 12 entities.

1. booking - keep all booking using FK from other entities
2. message - keep every message
3. payment - keep transactions
4. request - keep every request and the status of it
5. room - represent each instance of a room
6. roomtype - used by room to indicate the type of the room
7. service - keep all service in the hotel
8. specialoffer - keep all coupon number as guest could use it for discount
9. staff - keep all information of every staffs
10. user - keep login info for each user
11. usergroup - keep the group of users
12. usergroup\_has\_message - records which group has which message - created from M:N Relationship

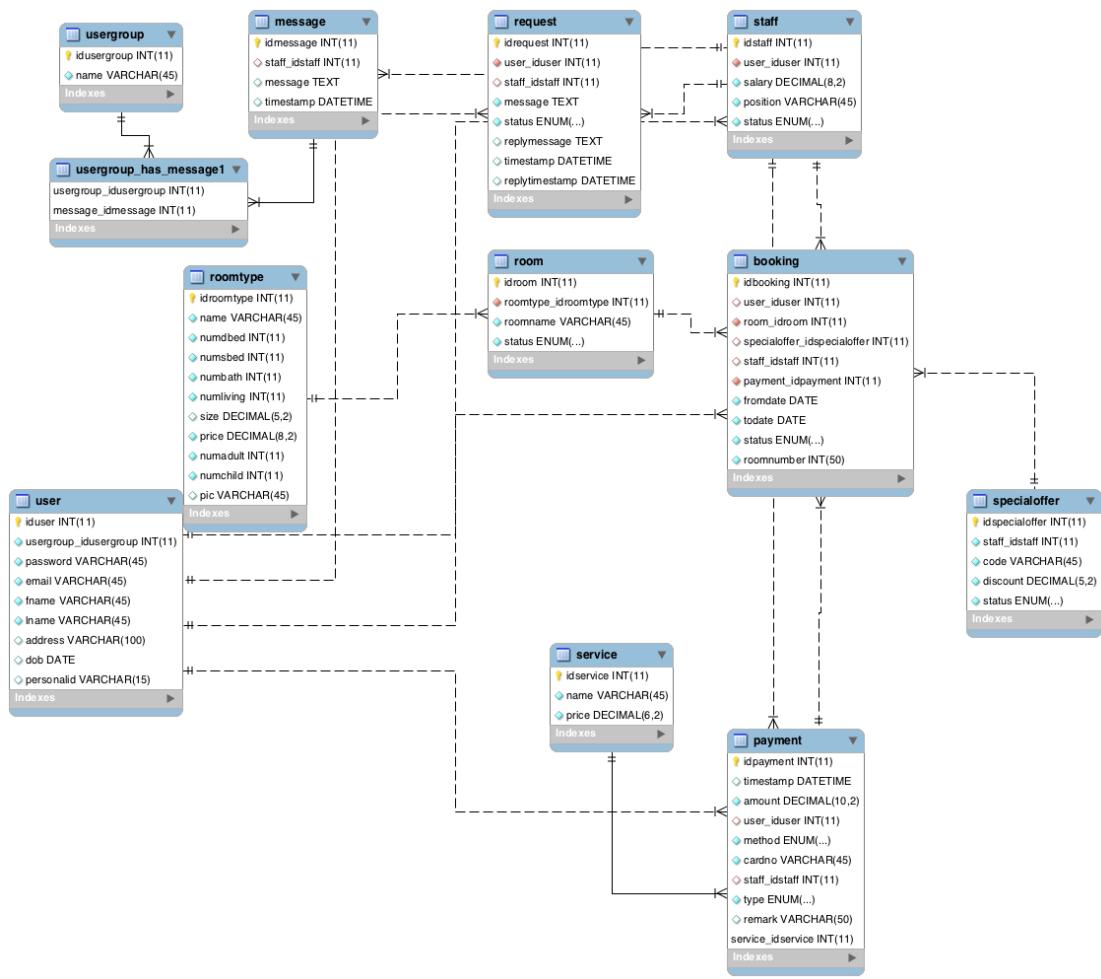


Figure 2.1: ER Diagram

## 2.2 Data Flow Diagram

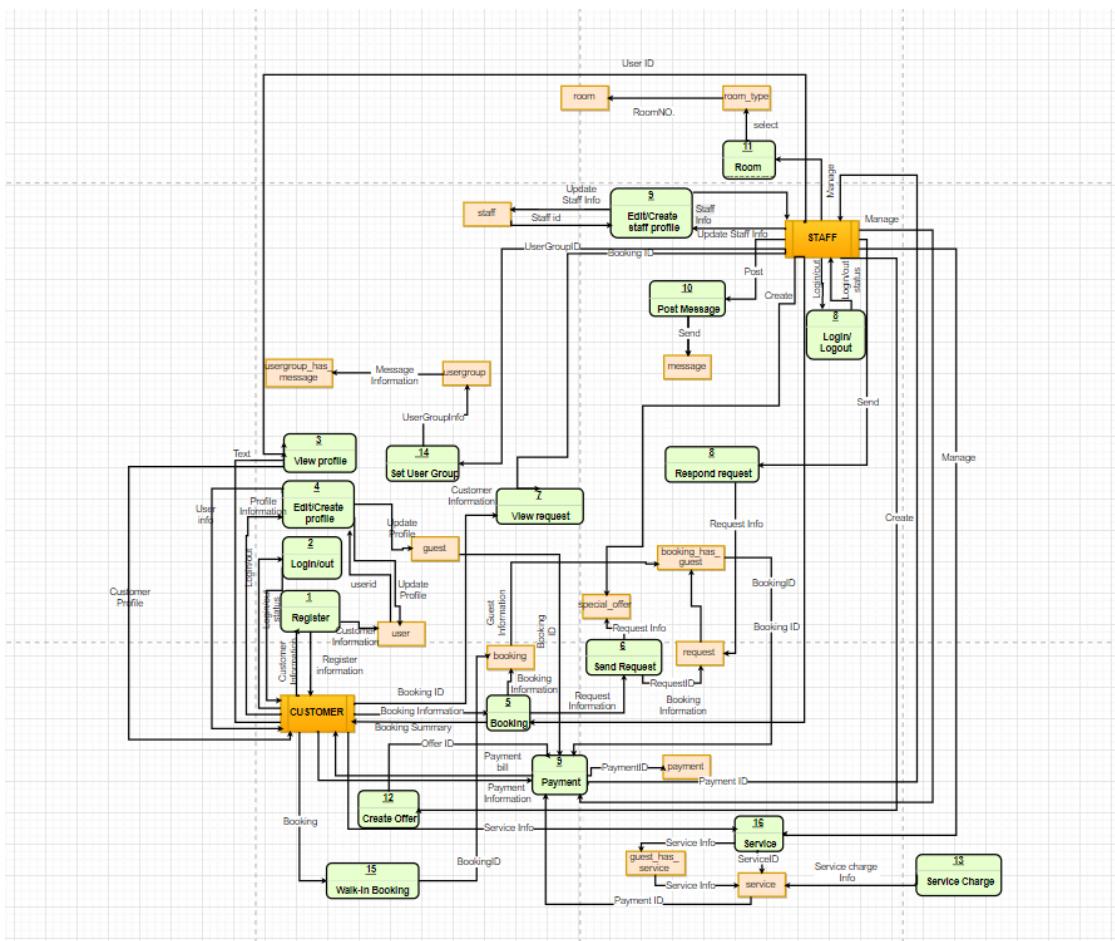


Figure 2.2: Data Flow Diagram

## 2.3 Context Diagram

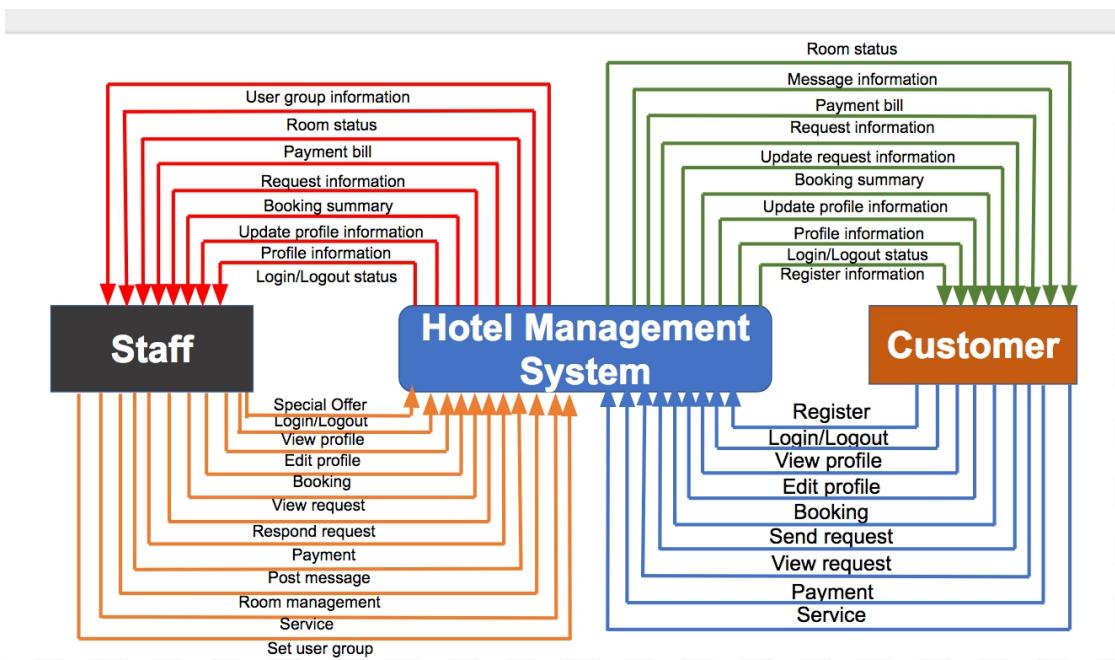


Figure 2.3: Context Diagram

## 2.4 Functional Design

1. Hotel Information - Main page before login system - this shows pictures of the hotels, general informations of the hotel, booking system interface and portal for login
  - (a) Information about hotel/picture
  - (b) facilities
  - (c) contact us
2. Customer System - Capable of handling customer actions
  - (a) register/login system
  - (b) view/edit profile information
  - (c) booking system
  - (d) request to hotel
  - (e) payment
  - (f) view the message from admin
3. Hotel Administration System - Capable for staff to manage the hotel
  - (a) login system

- (b) staff and customer profile
- (c) view customer booking
- (d) room management
- (e) message to customer
- (f) payment system
- (g) charge money from customers

## 2.5 UI and Test datasets

Images of UI and the test dataset will be discussed in Chapter 4.

## Chapter 3

# Implementation on the Database Management Systems

### 3.1 The System

In this project, the Database System we're using is MySQL version 5.6.35 hosted locally on our members' laptops as shown in figure.  
The project also implemented purely on PHP7.

### 3.2 Workflow and Methodology

In order to create continuous flow of the teamworking, team management and planning was very important to us. We used ,somewhat, Agile Philosophy in our development cycles. Our group included development team, which included frontend development and backend development, and testing team.

- Server: Localhost via UNIX socket
- Server type: MySQL
- Server version: 5.6.35 - MySQL Community Server (GPL)
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

Figure 3.1: System Detail

As we split our implementation time into periods and assign tasks to each team, the flow was very smooth and allowed us to work independently most of the time.

We also used a few tools to help us implement our project more efficiently such as GitHub as Version Control System to keep track of our code and productivity of each team members, We also use GitHub readme as Planning Board for our team to plan future work together as we meet together for daily meeting.

In this project we did not use any CSS Framework or JS Framework because we believed that learning best should start by learning at the very basic steps. So we implemented our own CSS library which isn't Well-Refractored but it is the excellent evidence of our learning.

This report is written using L<sup>A</sup>T<sub>E</sub>X.

### 3.3 The Database

We planned quite a perfect ER in the very beginning phase of the implementation, but as we continued we need to modify the ER some times because of a few reasons listed below.

1. To support new functional requirements, which are found out while implementing
2. To facilitate physical implementation
3. To do some actions that are constrained by the Database System

The SQL script of our database is exported and included in the appendix. So our final Database includes the following tables.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idbooking	int(11)			No	None	AUTO_INCREMENT	Change Drop More	Change Drop More
2	user_iduser	int(11)			Yes	NULL		Change Drop More	Change Drop More
3	room_idroom	int(11)			No	None		Change Drop More	Change Drop More
4	specialoffer_idspecialoffer	int(11)			Yes	NULL		Change Drop More	Change Drop More
5	staff_idstaff	int(11)			Yes	NULL		Change Drop More	Change Drop More
6	payment_idpayment	int(11)			No	None		Change Drop More	Change Drop More
7	fromdate	date			No	None		Change Drop More	Change Drop More
8	todate	date			No	None		Change Drop More	Change Drop More
9	status	enum('checked', 'unchecked')	utf8_general_ci		No	None			Change Drop More
10	roomnumber	int(50)			No	None		Change Drop More	Change Drop More

Figure 3.2: Structure of booking table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idmessage	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique More	Change Drop Primary Unique More
2	staff_idstaff	int(11)			Yes	NULL		Change Drop Primary Unique More	Change Drop Primary Unique More
3	message	text	utf8_general_ci		Yes	NULL		Change Drop Primary Unique More	Change Drop Primary Unique More
4	timestamp	datetime			Yes	NULL		Change Drop Primary Unique More	Change Drop Primary Unique More

Figure 3.3: Structure of message table

We also used a lot of routines, namely stored procedure, functions and trigger, and will be discussed later in the next chapter.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idpayment	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary More	Change Drop Primary More
2	timestamp	datetime			Yes	NULL		Change Drop Primary More	Change Drop Primary More
3	amount	decimal(10,2)			No	None		Change Drop Primary More	Change Drop Primary More
4	user_iduser	int(11)			Yes	NULL		Change Drop Primary More	Change Drop Primary More
5	method	enum('cash', 'creditcard')	utf8_general_ci		No	None		Change Drop Primary More	Change Drop Primary More
6	cardno	varchar(45)	utf8_general_ci		No	None		Change Drop Primary More	Change Drop Primary More
7	staff_idstaff	int(11)			Yes	NULL		Change Drop Primary More	Change Drop Primary More
8	type	enum('booking', 'service', '')	utf8_general_ci		No	None		Change Drop Primary More	Change Drop Primary More
9	remark	varchar(50)	utf8_general_ci		Yes	NULL		Change Drop Primary More	Change Drop Primary More

Figure 3.4: Structure of payment table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idrequest	int(11)			No	None		AUTO_INCREMENT	Change  Drop  Primary ▾ More
2	user_iduser	int(11)			No	None			Change  Drop  Primary ▾ More
3	staff_idstaff	int(11)			Yes	NULL			Change  Drop  Primary ▾ More
4	message	text	utf8_general_ci		No	None			Change  Drop  Primary ▾ More
5	status	enum('open', 'closed')	utf8_general_ci		No	None			Change  Drop  Primary ▾ More
6	replymessage	text	utf8_general_ci		Yes	NULL			Change  Drop  Primary ▾ More
7	timestamp	datetime			Yes	NULL			Change  Drop  Primary ▾ More
8	replytimestamp	datetime			Yes	NULL			Change  Drop  Primary ▾ More

Figure 3.5: Structure of request table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idroom	int(11)			No	None		AUTO_INCREMENT	Change  Drop ▾ More
2	roomtype_idroomtype	int(11)			No	None			Change  Drop ▾ More
3	roomname	varchar(45)	utf8_general_ci		No	None			Change  Drop ▾ More
4	status	enum('open', 'closed')	utf8_general_ci		No	None			Change  Drop ▾ More

Figure 3.6: Structure of room table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idroomtype	int(11)			No	None		AUTO_INCREMENT	Change  Drop  Primary ▾ More
2	name	varchar(45)	utf8_general_ci		No	None			Change  Drop  Primary ▾ More
3	numdbed	int(11)			No	None			Change  Drop  Primary ▾ More
4	numbed	int(11)			No	None			Change  Drop  Primary ▾ More
5	numbath	int(11)			No	None			Change  Drop  Primary ▾ More
6	numliving	int(11)			No	None			Change  Drop  Primary ▾ More
7	size	decimal(5,2)			Yes	NULL			Change  Drop  Primary ▾ More
8	price	decimal(8,2)			No	None			Change  Drop  Primary ▾ More
9	numadult	int(11)			No	None			Change  Drop  Primary ▾ More
10	numchild	int(11)			No	None			Change  Drop  Primary ▾ More
11	pic	varchar(45)	utf8_general_ci		Yes	NULL			Change  Drop  Primary ▾ More

Figure 3.7: Structure of roomtype table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idservice	int(11)			No	None		AUTO_INCREMENT	Change  Drop  Primary  Unique ▾ More
2	name	varchar(45)	utf8_general_ci		No	None			Change  Drop  Primary  Unique ▾ More
3	price	decimal(6,2)			No	None			Change  Drop  Primary  Unique ▾ More

Figure 3.8: Structure of message table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	idspecialoffer	int(11)			No	None		AUTO_INCREMENT	Change  Drop  Primary ▾ More
2	staff_idstaff	int(11)			No	None			Change  Drop  Primary ▾ More
3	code	varchar(45)	utf8_general_ci		No	None			Change  Drop  Primary ▾ More
4	discount	decimal(5,2)			No	None			Change  Drop  Primary ▾ More
5	status	enum('active', 'disabled')	utf8_general_ci		No	None			Change  Drop  Primary ▾ More

Figure 3.9: Structure of specialoffer table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>idstaff</b>	int(11)		No	None		AUTO_INCREMENT	Change  Drop  Primary  More	
2	<b>user_iduser</b>	int(11)		No	None			Change  Drop  Primary  More	
3	<b>salary</b>	decimal(8,2)		No	None			Change  Drop  Primary  More	
4	<b>position</b>	varchar(45)	utf8_general_ci	No	None			Change  Drop  Primary  More	
5	<b>status</b>	enum('active', 'nonactive')	utf8_general_ci	No	None			Change  Drop  Primary  More	

Figure 3.10: Structure of staff table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>iduser</b>	int(11)		No	None		AUTO_INCREMENT	Change  Drop  Primary  More	
2	<b>usergroup_idusergroup</b>	int(11)		No	None			Change  Drop  Primary  More	
3	<b>password</b>	varchar(45)	utf8_general_ci	No	None			Change  Drop  Primary  More	
4	<b>email</b>	varchar(45)	utf8_general_ci	No	None			Change  Drop  Primary  More	
5	<b>fname</b>	varchar(45)	utf8_general_ci	No	None			Change  Drop  Primary  More	
6	<b>lname</b>	varchar(45)	utf8_general_ci	No	None			Change  Drop  Primary  More	
7	<b>address</b>	varchar(100)	utf8_general_ci	Yes	NULL			Change  Drop  Primary  More	
8	<b>dob</b>	date		Yes	NULL			Change  Drop  Primary  More	
9	<b>personalid</b>	varchar(15)	utf8_general_ci	Yes	NULL			Change  Drop  Primary  More	

Figure 3.11: Structure of user table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>idusergroup</b>	int(11)		No	None		AUTO_INCREMENT	Change  Drop  Primary  More	
2	<b>name</b>	varchar(45)	utf8_general_ci	No	None			Change  Drop  Primary  More	

Figure 3.12: Structure of usergroup table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>usergroup_idusergroup</b>	int(11)		No	None			Change  Drop  Primary  Unique  Index  More	
2	<b>message_idmessage</b>	int(11)		No	None			Change  Drop  Primary  Unique  Index  More	

Figure 3.13: Structure of usergroup\_has\_message table

<b>idbooking</b>	<b>user_iduser</b>	<b>room_idroom</b>	<b>specialoffer_idspecialoffer</b>	<b>staff_idstaff</b>	<b>payment_idpayment</b>	<b>fromdate</b>	<b>todate</b>	<b>status</b>	<b>roomnumber</b>
1	2	1	NULL	NULL	1	2017-12-01	2017-12-03	unchecked	1
2	2	4	NULL	NULL	1	2017-12-01	2017-12-03	unchecked	2
3	2	1	NULL	NULL	2	2017-12-04	2017-12-06	checked	3
4	2	2	NULL	NULL	2	2017-12-04	2017-12-06	unchecked	4
5	2	1	NULL	NULL	3	2017-12-08	2017-12-10	unchecked	5
6	3	5	NULL	NULL	4	2017-12-01	2017-12-03	unchecked	6

Figure 3.14: Test dataset of Booking

<b>idmessage</b>	<b>staff_idstaff</b>	<b>message</b>	<b>timestamp</b>
1	1	welcome for my hotel	2017-12-13 06:47:13
2	1	welcome for my hotel	2017-12-13 06:47:23
3	1	welcome for my hotel	2017-12-13 06:47:39
4	1	ddd	2017-12-14 03:17:43
5	1		2017-12-14 04:08:06
6	1	Your status is customer	2017-12-14 07:38:41
7	2	Your status is Gold Customer	2017-12-14 07:39:05
8	5	Your status is Platinum Customer	2017-12-14 07:39:40
9	2	Your status is Customer	2017-12-14 07:40:56
10	1	Your status is Gold Customer	2017-12-14 07:41:18

Figure 3.15: Test dataset of Message

### 3.4 The project:The Test Dataset

the following tables are the test dataset and currently in our database.

<b>idpayment</b>	<b>timestamp</b>	<b>amount</b>	<b>user_iduser</b>	<b>method</b>	<b>cardno</b>	<b>staff_idstaff</b>	<b>type</b>	<b>remark</b>
1	2017-12-13 06:31:50	54000.00		2	creditcard		NULL	booking NULL
2	2017-12-13 06:36:18	64000.00		2	creditcard		NULL	booking NULL
3	2017-12-13 06:45:10	40000.00		2	creditcard		NULL	booking NULL
4	2017-12-14 15:09:55	14000.00		3	creditcard		NULL	booking NULL
5	2017-12-14 03:19:42	98.00		2	cash		NULL	service NULL
6	2017-12-14 07:42:20	676.00		2	cash		NULL	service NULL

Figure 3.16: Test dataset of Payment

<b>idrequest</b>	<b>user_iduser</b>	<b>staff_idstaff</b>	<b>message</b>	<b>status</b>	<b>replymessage</b>	<b>timestamp</b>	<b>replytimestamp</b>
1	2	NULL	Want fruit	closed	Okay	2017-12-13 06:33:23	2017-12-13 06:35:26
2	3	NULL	jfhjf	closed	ooo	2017-12-14 03:11:41	2017-12-14 03:18:38
3	3	NULL	Want more room	closed	Thanks for comment	2017-12-14 07:59:29	2017-12-14 08:00:57
4	2	NULL	Want more facility	open	NULL	2017-12-14 07:59:53	NULL
5	13	NULL	Need more food menu	open	NULL	2017-12-14 08:00:25	NULL

Figure 3.17: Test dataset of Request

<b>idroom</b>	<b>roomtype_idroomtype</b>	<b>roomname</b>	<b>status</b>
1		1 Seaside	open
2		2 Ocean View1	open
3		2 Ocean View2	open
4		3 Supreme1	open
5		3 Supreme2	open
6		3 Supreme3	open
7		2 Golden State	open

Figure 3.18: Test dataset of Room

<b>idroomtype</b>	<b>name</b>	<b>numdbed</b>	<b>numsbed</b>	<b>numbath</b>	<b>numliving</b>	<b>size</b>	<b>price</b>	<b>numadult</b>	<b>numchild</b>	<b>pic</b>
1	Deluxe Pool Access	2	0	2	1	60.00	20000.00	4	2	del1
2	Junior suite	1	1	2	1	45.00	12000.00	3	2	jus1
3	Supreme1D	1	0	1	0	32.00	7000.00	2	1	sup1

Figure 3.19: Test dataset of Roomtype

<b>idservice</b>	<b>name</b>	<b>price</b>
1	American Fried Rice	129.00
2	Pork Steak	199.00
3	Spaghetti Cabonara	169.00
4	Beer can	39.00
5	Sandwich	79.00
6	Cheese Burger	99.00
7	Omelette	59.00
8	Tea	25.00
9	Onion Soup	55.00

Figure 3.20: Test dataset of Service

<b>idspecialoffer</b>	<b>staff_idstaff</b>	<b>code</b>	<b>discount</b>	<b>status</b>
1	11	god	25.00	active
2	11	NOCODE	0.00	active

Figure 3.21: Test dataset of SpecialOffer

<b>idstaff</b>	<b>user_iduser</b>	<b>salary</b>	<b>position</b>	<b>status</b>
1	1	98000.00	Managing Director	active
2	4	78000.00	Front Office Manager	active
3	5	74000.00	Assistant Front Office Manager	active
4	6	72000.00	Reservation Manager	active
5	7	71000.00	Chief Telephone operator	active
6	8	68000.00	Receptionist	active
7	9	66000.00	Information Clerk	active
8	10	41000.00	Chief Security	active
9	11	36000.00	Executive Housekeeper	active
10	12	33000.00	Housekeeping Clerk	active

Figure 3.22: Test dataset of Staff

<b>iduser</b>	<b>usergroup_idusergroup</b>	<b>password</b>	<b>email</b>	<b>fname</b>	<b>Iname</b>	<b>address</b>	<b>dob</b>	<b>personalid</b>
1	11	staff	staff	staff	staff	123/36	1996-11-01	1151
2	1	user	user	User	User	123/38	1997-02-28	0101
3	2	test	test	test	test	235/423	2017-12-28	0102
4	11	1111	Apiwat@mail.com	Apiwat	Thaiphakdee	123/36	1996-11-01	1152
5	11	1111	Wari@mail.com	Wari	Mareongsit	465/89	1996-10-10	1153
6	11	1111	Kriddanai@hotmail.com	Kriddanai	Roonguthai	169/634	1996-05-22	1154
7	11	1111	Prompat@mail.com	Prompat	Tipphakdee	490/187	1996-12-02	1155
8	11	1111	Jame@mail.com	Jame	Mliner	788/59	1998-02-19	1156
9	11	1111	Joe@mail.com	Joe	Hart	783/121	1994-09-29	1157
10	11	1111	Kevin@mail.com	Kevin	Hoffman	674/27	1990-08-28	1158
11	11	1111	Jane@mail.com	Jane	Molly	599/276	1999-04-02	1159
12	11	1111	Chris@mail.com	Christian	Walker	556/900	1993-07-08	1160
13	1	1234	Benyapa@mail.com	Benyapa	Poonlarp	711/55	1996-12-09	0103

Figure 3.23: Test dataset of User

<b>idusergroup</b>	<b>name</b>
1	customer
2	goldcustomer
3	platinumcustomer
11	staff

Figure 3.24: Test dataset of Usergroup

usergroup_idusergroup	message_idmessage
1	9
2	10
3	8

Figure 3.25: Test dataset of Usergroup\_has\_message

idstaff	salary	position	status	email	fname	lname	address	dob	personalid	EDIT
1	98000.00	Managing Director	active	staff	staff	staff	123/36	1996-11-01	1151	<a href="#">EDIT</a>
2	78000.00	Front Office Manager	active	Apiwat@mail.com	Apiwat	Thaiphakdee	123/36	1996-11-01	1152	<a href="#">EDIT</a>
3	74000.00	Assistant Front Office Manager	active	Wari@mail.com	Wari	Mareongsit	465/89	1996-10-10	1153	<a href="#">EDIT</a>
4	72000.00	Reservation Manager	active	Kriddanai@hotmail.com	Kriddanai	Roonguthai	169/634	1996-05-22	1154	<a href="#">EDIT</a>
5	71000.00	Chief Telephone operator	active	Prompat@mail.com	Prompat	Tippahakdee	490/187	1996-12-02	1155	<a href="#">EDIT</a>
6	68000.00	Receptionist	active	Jame@mail.com	Jame	Milner	788/59	1998-02-19	1156	<a href="#">EDIT</a>
7	66000.00	Information Clerk	active	Joe@mail.com	Joe	Hart	783/121	1994-09-29	1157	<a href="#">EDIT</a>
8	41000.00	Chief Security	active	Kevin@mail.com	Kevin	Hoffman	674/27	1990-08-28	1158	<a href="#">EDIT</a>
9	36000.00	Executive Housekeeper	active	Jane@mail.com	Jane	Molly	599/276	1999-04-02	1159	<a href="#">EDIT</a>
10	33000.00	Housekeeping Clerk	active	Chris@mail.com	Christian	Walker	556/900	1993-07-08	1160	<a href="#">EDIT</a>

Figure 3.26: User Interface of Staff Editing

### 3.5 The project : User Interface

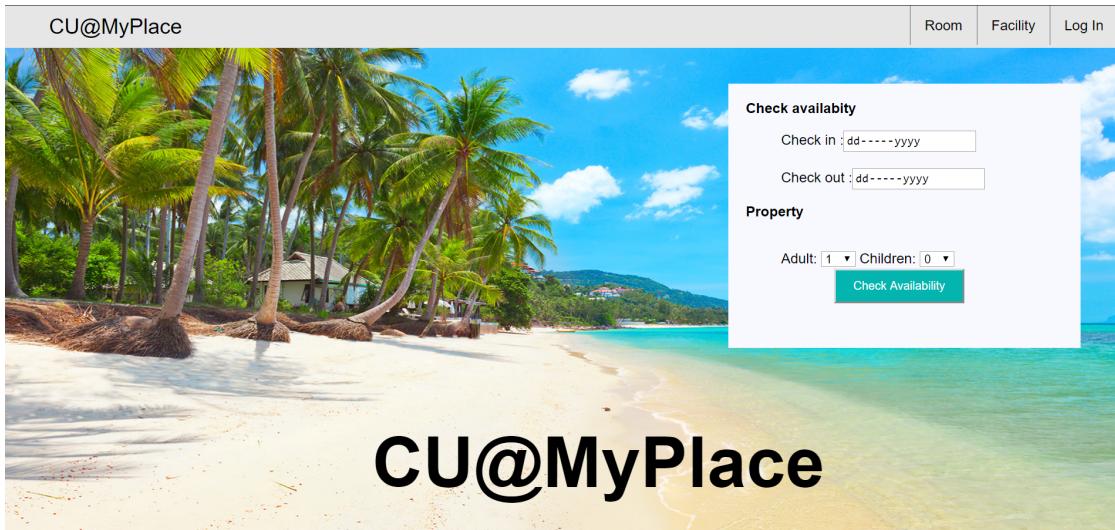


Figure 3.27: User Interface of Homepage1

**CU@MyPlace : ITS322 Database System section 1**

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**SOCIAL MEDIA**

CU@MyPlace	CU@MyPlace
CU@MyPlace	CU@MyPlace
CU@MyPlace	

Figure 3.28: User Interface of Homepage2



Figure 3.29: User Interface of Homepage3

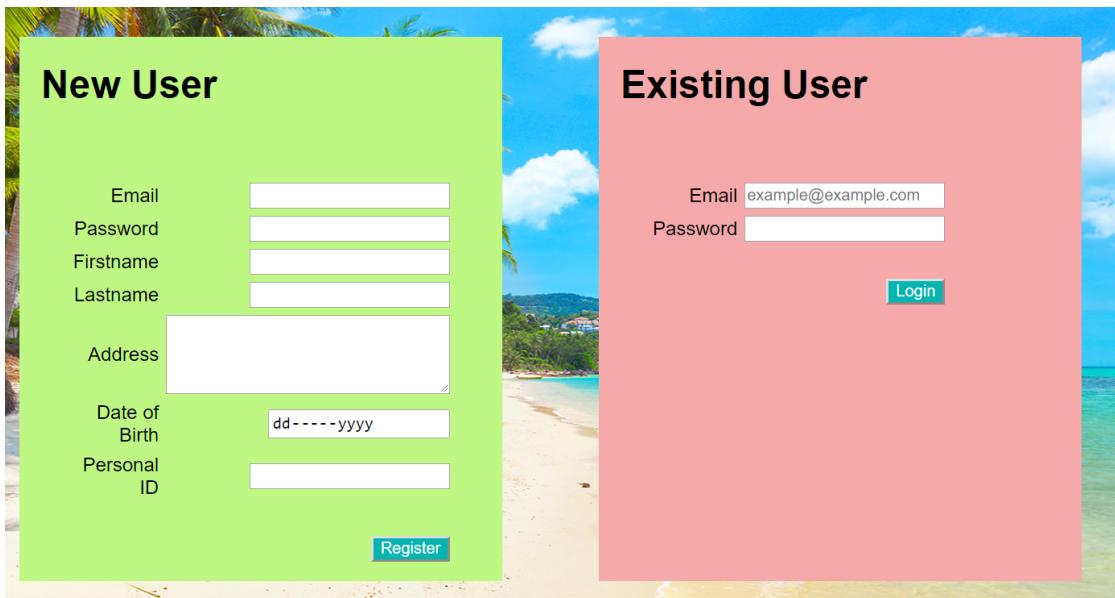


Figure 3.30: User Interface of login

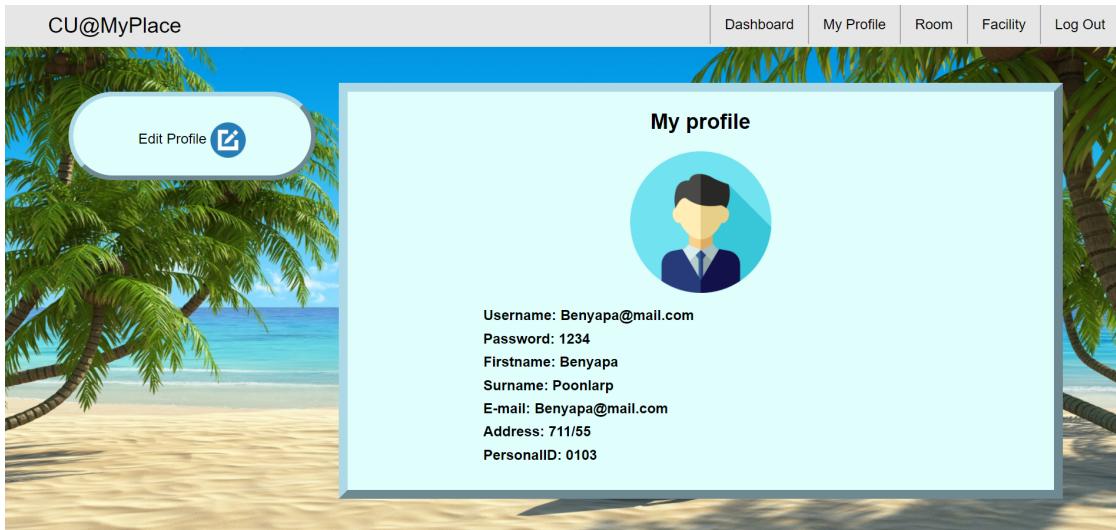


Figure 3.31: User Interface of myprofile

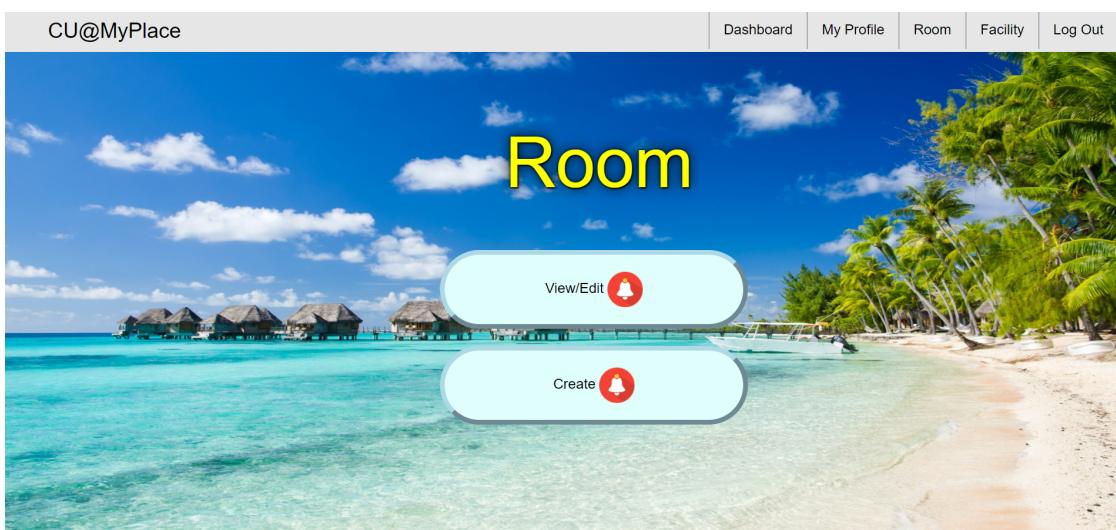


Figure 3.32: User Interface of roomfunction

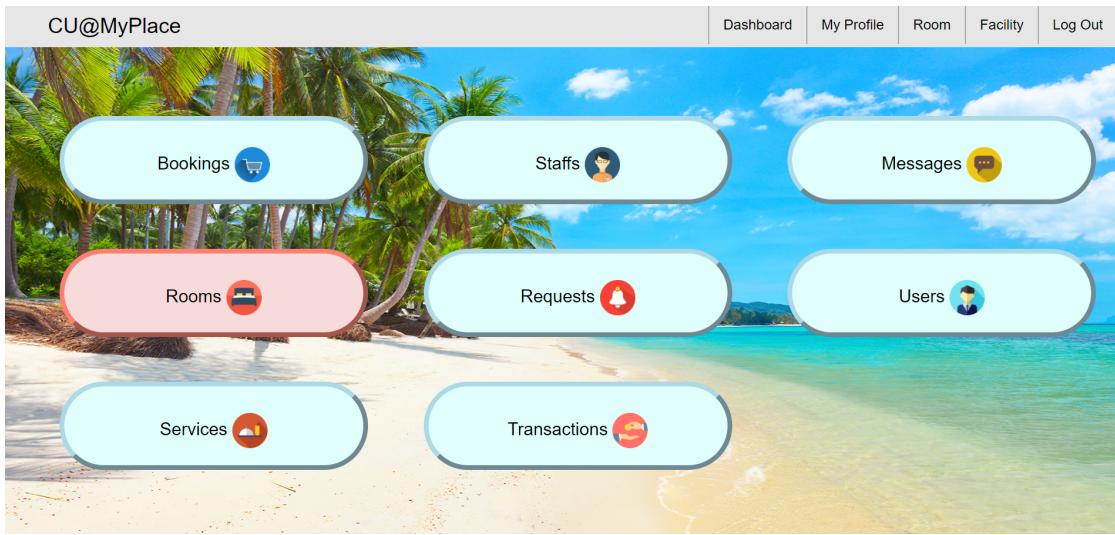


Figure 3.33: User Interface of staffdashboard

The screenshot shows the 'transaction' interface for CU@MyPlace. At the top, there's a navigation bar with links for Dashboard, My Profile, Room, Facility, and Log Out. Below the navigation is a banner featuring a tropical beach with palm trees and clear blue water. In the center, there is a table titled 'transaction' with the following data:

user_iduser	fname	lname	amount	method	type	staff_idstaff	timestamp
2	User	User	54000.00	creditcard	booking		2017-12-13 06:31:50
2	User	User	64000.00	creditcard	booking		2017-12-13 06:36:18
2	User	User	40000.00	creditcard	booking		2017-12-13 06:45:10
3	test	test	14000.00	creditcard	booking		2017-12-14 15:09:55
2	User	User	98.00	cash	service		2017-12-14 03:19:42
2	User	User	676.00	cash	service		2017-12-14 07:42:20

Figure 3.34: User Interface of transaction

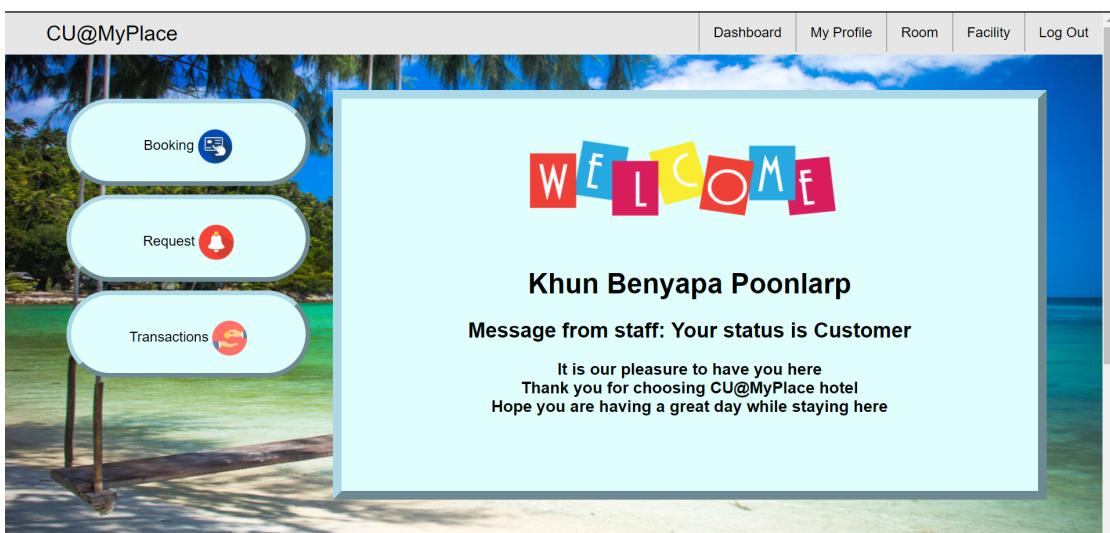


Figure 3.35: User Interface of userdashboard

# Chapter 4

## Explanation on Routines : Procedures and Functions

### 4.1 Procedure 1 : assignroomtobooking

```
1      DELIMITER $$  
2      CREATE DEFINER='root'@'localhost' PROCEDURE 'assignroomtobooking'(  
3          IN 'datein' DATE, IN 'dateout' DATE, IN 'type' INT, OUT 'roomid' INT)  
4      BEGIN  
5          SELECT room.idroom as roomid FROM room WHERE (room.idroom  
6              NOT IN (  
7                  SELECT booking.room_idroom FROM booking  
8                      WHERE (booking.fromdate < datein AND booking.todate > datein)  
9                          OR (booking.fromdate between datein AND dateout - INTERVAL  
10                         1 DAY))  
11                     AND room.status = 'open' AND room.roomtype_idroomtype =  
12                         type) LIMIT 1;  
13      END$$  
14      DELIMITER ;
```

This procedure is used in booking function where after pressing confirm booking, the procedure will look for an available room and will output the roomid and will be used when insert into the booking table.

### 4.2 Procedure 2 : availableroomtype

```
1      DELIMITER $$  
2      CREATE DEFINER='root'@'localhost' PROCEDURE 'availableroomtype'(  
3          IN 'infromdate' DATE, IN 'intodate' DATE)  
4      BEGIN  
5          SELECT *, COUNT(*) FROM room LEFT JOIN roomtype ON room.  
6              roomtype_idroomtype = roomtype.idroomtype  
7              WHERE (room.idroom NOT IN (
```

```

6      SELECT booking.room_idroom FROM booking WHERE (booking.
7      fromdate < infodate AND booking.todate > infodate) OR (booking.
8      fromdate between infodate AND intodate - INTERVAL 1 DAY)) AND room.
9      status = 'open')
10     GROUP BY roomtype.idroomtype;
11   END$$
12  DELIMITER ;

```

This procedure return the roomtypes that are available for the customer in the time period which he/she selects.

### 4.3 Procedure 3 : createonlinebooking

```

1  DELIMITER $$
2  CREATE DEFINER='root'@'localhost' PROCEDURE 'createonlinebooking'
3    (IN 'datein' DATE, IN 'dateout' DATE, IN 'userid' INT, IN 'roomid'
4     INT, IN 'coupon' VARCHAR(50), IN 'paymentid' INT, OUT 'bookingid' INT)
5    BEGIN
6      DECLARE couponid INT;
7      SELECT specialoffer.idspecialoffer as couponid FROM
8      specialoffer WHERE specialoffer.code = coupon;
9      INSERT INTO 'booking' ('idbooking', 'user_iduser', 'room_idroom',
10     'specialoffer_idspecialoffer', 'staff_idstaff', 'payment_idpayment',
11     'fromdate', 'todate', 'status')
12     VALUES (NULL, userid, roomid, couponid, NULL, paymentid,
13     datein, dateout, 'unchecked');
14     SET bookingid = (SELECT LAST_INSERT_ID());
15   END$$
16  DELIMITER ;

```

This procedure facilitate storing in the booking table for online booking.

### 4.4 Procedure 4 : createonlinepayment

```

1  DELIMITER $$
2  CREATE DEFINER='root'@'localhost' PROCEDURE 'createonlinepayment'
3    (IN 'amount' DECIMAL(10,2), IN 'uid' INT, IN 'cardno' VARCHAR(50), OUT
4     'paymentid' INT)
5    BEGIN
6      INSERT INTO 'payment' ('idpayment', 'timestamp', 'amount',
7     'user_iduser', 'method', 'cardno', 'staff_idstaff', 'type')
8      VALUES (NULL, NOW(), amount, uid, 'creditcard', cardno, NULL,
9     'booking');
10     SET paymentid = (SELECT LAST_INSERT_ID());
11   END$$
12  DELIMITER ;

```

This procedure store payment table for online booking.

#### 4.5 Procedure 5 : newwalkin

```
1    DELIMITER $$  
2    CREATE DEFINER='root'@'localhost' PROCEDURE 'newwalkin'('IN '  
3        inamount' DECIMAL(10,2), IN 'instaffid' INT, IN 'incardno' VARCHAR(50)  
4        , IN 'inmethod' VARCHAR(20), OUT 'paymentid' INT)  
5        BEGIN  
6            INSERT INTO payment VALUES (NULL, NOW(), inamount, NULL,  
7                inmethod, incardno, instaffid, 'booking', '');  
8            SET paymentid = (SELECT LAST_INSERT_ID());  
9        END$$  
10       DELIMITER ;
```

This procedure store payment for walkin booking and is used in the website for creating booking for walkin customers.

#### 4.6 Procedure 6 : newwalkinbooking

```
1    DELIMITER $$  
2    CREATE DEFINER='root'@'localhost' PROCEDURE 'newwalkinbooking'('IN '  
3        infromdate' DATE, IN 'intodate' DATE, IN 'instaffid' INT, IN 'inroomid'  
4        ' INT, IN 'offer' VARCHAR(50), IN 'paymentid' INT, OUT 'bookingid' INT  
5        )  
6        BEGIN  
7            DECLARE codeid INT;  
8            SELECT specialoffer.idspecialoffer AS codeid FROM specialoffer  
9            WHERE specialoffer.code = offer;  
10           INSERT INTO 'booking' ('idbooking', 'user_iduser', 'room_idroom'  
11           , 'specialoffer_idspecialoffer', 'staff_idstaff', 'payment_idpayment'  
12           , 'fromdate', 'todate', 'status') VALUES (NULL, NULL, inroomid,  
13           codeid, instaffid, paymentid, infromdate, intodate, 'unchecked');  
14           SET bookingid = (SELECT LAST_INSERT_ID());  
15       END$$  
16       DELIMITER ;
```

This procedure store booking for walkin customer and is used in the website for creating booking for walkin customers.

#### 4.7 Function 1 : calc\_coupon

```
1    DELIMITER $$  
2    CREATE DEFINER='root'@'localhost' FUNCTION 'calc_coupon'('amount'  
3        DECIMAL(10,2), 'couponcode' VARCHAR(50)) RETURNS decimal(10,2)  
4        unsigned
```

```
3      BEGIN
4          DECLARE dsc DECIMAL(10,2);
5          SELECT discount into dsc FROM specialoffer WHERE specialoffer.
6          code = couponcode;
7          IF (dsc = NULL) THEN
8              return NULL;
9          ELSE
10             SET dsc = amount*(100-dsc)/100;
11             return dsc;
12         END IF;
13     END$$
14     DELIMITER ;
```

This function check whether the coupon in valid or not and return discounted amount.

# Chapter 5

## Conclusion

### 5.1 Conclusion on Database Implementation

This project makes us realized that ER Database is very useful and very worthwhile to study because it allows us to design the database using the ER diagram which is very semantic concept. Also learning SQL allows us to send queries to view and edit those tables in the database.

There are a few points, besides query commands, we believed very important to our project.

- Views - Allows us to create a virtual table that could be used for securely views the table, also it facilitate viewing complex join of tables
- Routines - Very important function of SQL because they help us a lot in calling a series of SQL commands without explicitly call all of them
- Foreign Key - Allows data to be verify whether it is correct and relate to the parent table or not.

	Table ▾	Action	Browse	Structure	Search	Insert	Drop	Rows	Type	Collation	Size	Overhead
	staff_viewbooking	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewmessage	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewrequest	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewroom	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewservice	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewstaff	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewtransaction	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	staff_viewuser	★	Browse	Structure	Search	Insert	X Drop	-0	View	---	-	-
	8 tables	Sum						-0	InnoDB	utf8_general_ci	0 B	0 B

Figure 5.1: Some views we used in the project

Foreign key constraints		Foreign key constraint (INNODB)			
Actions	Constraint properties	Column	Database	Table	Column
<a href="#">Drop</a>	fk_booking_payment1 ON DELETE NO ACTION ON UPDATE NO ACTION	payment_idpay	CU_FINAL	payment	idpayment
<a href="#">Drop</a>	fk_booking_room1 ON DELETE NO ACTION ON UPDATE NO ACTION	room_idroom	CU_FINAL	room	idroom
<a href="#">Drop</a>	fk_booking_specialoffer1 ON DELETE NO ACTION ON UPDATE NO ACTION	specialoffer_ids	CU_FINAL	specialoffer	idspecialoffer
<a href="#">Drop</a>	fk_booking_staff1 ON DELETE NO ACTION ON UPDATE NO ACTION	staff_idstaff	CU_FINAL	staff	idstaff
<a href="#">Drop</a>	fk_booking_user1 ON DELETE NO ACTION ON UPDATE NO ACTION	user_iduser	CU_FINAL	user	iduser
	Constraint name ON DELETE RESTRICT ON UPDATE RESTRICT	+ Add column	CU_FINAL		
<a href="#">+ Add constraint</a>					

Figure 5.2: Foreign Key constraints

Those points are very important and helped us a lot.

## 5.2 Conclusion on Web Implementation

We gained a lot of software development experience from working together as it taught us to write thousand lines of code with several weeks working period. We learned to use many tools to develop this project including developing tools such as

- PHPMyAdmin - use for viewing tables in GUI mode.
- MySQL CLI - use for querying and doing works in CLI mode.
- MySQL Workbench - use for designing the DB from ER Diagram.
- Text Editors - Our team use Atom for developing the project
- GitHub - use for version control system

Because of those points mentioned above, We did learned a lot from doing the project. But the project itself still has a lot of room for improvement. It still could be developed using CSS Framework for prettier UI or use JavaScript for dynamic webpage for better experience. The system itself still need to be tested in practical use in order to gain more accurate functional requirements and to develop better functions to facilitate hotel's staff and customer jobs which we believed those points could be done if the project is to be used in practice.

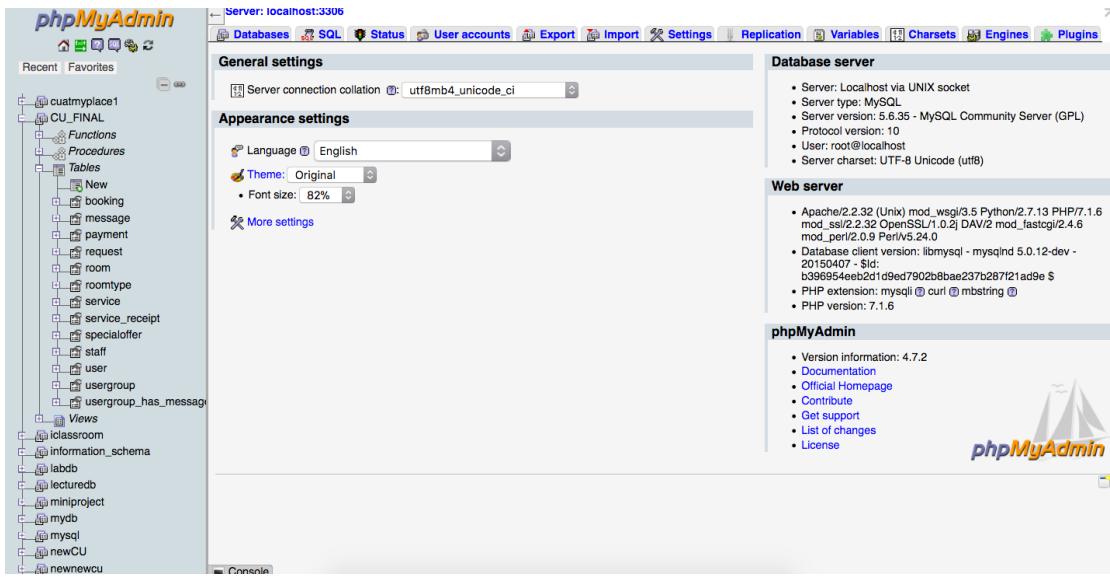


Figure 5.3: PHPMyAdmin

```
mysql> show tables;
+-----+
| Tables_in_cu_final |
+-----+
| booking           |
| message           |
| payment           |
| request           |
| room              |
| roomtype          |
| service            |
| service_receipt   |
| specialoffer      |
| staff              |
| staff_viewbooking |
| staff_viewmessage |
| staff_viewrequest  |
| staff_viewroom     |
| staff_viewservice  |
| staff_viewstaff    |
| staff_viewtransaction |
| staff_viewuser     |
| user               |
| usergroup          |
| usergroup_has_message |
+-----+
21 rows in set (0.00 sec)

mysql>
```

Figure 5.4: Running MySQL in Terminal

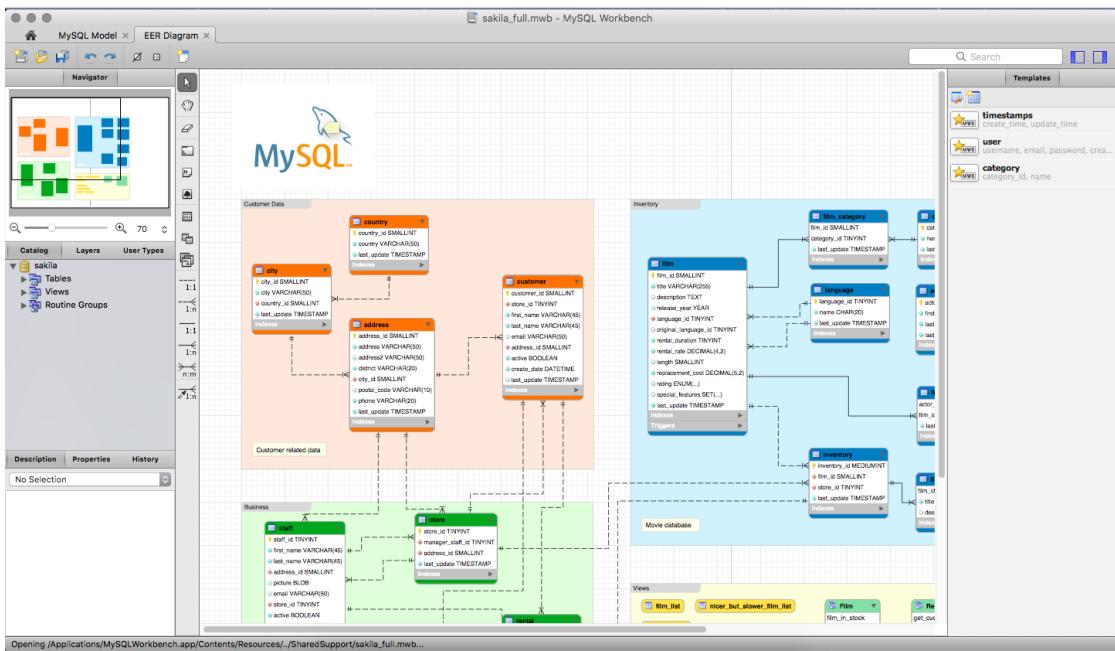


Figure 5.5: MySQL Workbench



Figure 5.6: The Editor we were using

The screenshot shows a GitHub repository page for 'naughtybunnies / DatabaseLab'. At the top, there are navigation links for Code, Issues (0), Pull requests (0), Projects (0), Wiki, Insights, and Settings. Below the header, it says 'No description, website, or topics provided.' with an 'Edit' button and a 'Add topics' link. A summary bar shows 336 commits, 3 branches, 0 releases, and 4 contributors. Below this, a dropdown menu shows 'Branch: aftermid' and a 'New pull request' button. To the right are links for 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. A message states 'This branch is 294 commits ahead of master.' with 'Pull request' and 'Compare' buttons. The main content area lists commits from various users, with the latest commit being 'Merge branch 'aftermid' of https://github.com/naughtybunnies/DatabaseLab' by 'kenjitong' on '2c0b8da' 3 days ago.

Commit	Message	Date
kenjitong	finish law ngarbbbb	Latest commit 2c0b8da 3 days ago
database	Merge branch 'aftermid' of https://github.com/naughtybunnies/DatabaseLab	4 days ago
newpage	finish law ngarbbbb	3 days ago
.DS_Store	ds	3 days ago
.gitignore	wari	29 days ago
CU_FINAL.sql	CU_FINAL sql update	29 days ago
README.md	Revert "Merge branch 'master' into aftermid"	a month ago
todo.txt	update readme for this sprint	a month ago

Figure 5.7: Github : This is the actual repository of the project

# Appendix A

## Appendix

### A.1 SQL Script

```
1 -- phpMyAdmin SQL Dump
2 -- version 4.7.4
3 -- https://www.phpmyadmin.net/
4 --
5 -- Host: 127.0.0.1
6 -- Generation Time: Dec 14, 2017 at 12:45 PM
7 -- Server version: 10.1.28-MariaDB
8 -- PHP Version: 7.1.10
9
10 SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
11 SET AUTOCOMMIT = 0;
12 START TRANSACTION;
13 SET time_zone = "+00:00";
14
15
16 /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
17 /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
18 /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
19 /*!40101 SET NAMES utf8mb4 */;

20 --
21 -- Database: `cu_final`
22 --
23 --
24
25 DELIMITER $$

26 --
27 -- Procedures
28 --
29 CREATE DEFINER='root'@'localhost' PROCEDURE `addbooking` (IN `datefrom` DATE, IN `dateto` DATE, IN `userid` INT, IN `coupon` INT, IN `roomid` INT, OUT `bookingid` INT, OUT `paymentid` INT, IN `inmethod` VARCHAR(50), IN `cardno` VARCHAR(50), IN `inamount` DECIMAL, IN `staffid` VARCHAR(50)) NO SQL
30 BEGIN
```

```

31     IF staffid = '' THEN INSERT INTO `payment` ('idpayment', 'timestamp',
32         'amount', 'user_iduser', 'method', 'cardno', 'staff_idstaff') VALUES
33     (NULL, NOW(), inamount, userid, inmethod, cardno, NULL);
34     ELSE INSERT INTO `payment` ('idpayment', 'timestamp', 'amount', 'user_iduser',
35         'method', 'cardno', 'staff_idstaff') VALUES (NULL, NOW(),
36     ,inamount, userid, inmethod, cardno, staffid);
37     END IF;
38     SET paymentid = (SELECT LAST_INSERT_ID());
39     IF coupon = '' THEN
40         IF staffid = '' THEN INSERT INTO `booking` ('idbooking', 'user_iduser',
41             'room_idroom', 'specialoffer_idspecialoffer', 'staff_idstaff',
42             'payment_idpayment', 'fromdate', 'todate', 'status')
43             VALUES (NULL, userid, roomid, NULL, NULL, paymentid, datefrom, dateto,
44             'unchecked');
45         ELSE INSERT INTO `booking` ('idbooking', 'user_iduser', 'room_idroom',
46             'specialoffer_idspecialoffer', 'staff_idstaff', 'payment_idpayment',
47             'fromdate', 'todate', 'status') VALUES (NULL,
48             userid, roomid, staffid, paymentid, datefrom, dateto, 'unchecked');
49         END IF;
50     ELSE IF staffid = '' THEN INSERT INTO `booking` ('idbooking', 'user_iduser',
51         'room_idroom', 'specialoffer_idspecialoffer', 'staff_idstaff',
52         'payment_idpayment', 'fromdate', 'todate', 'status') VALUES (NULL,
53             userid, roomid, coupon, NULL, paymentid, datefrom, dateto,
54             'unchecked');
55         END IF;
56     END IF;
57     SET bookingid = (SELECT LAST_INSERT_ID());
58 END$$
59
60 CREATE DEFINER='root'@'localhost' PROCEDURE `assignroomtobooking` (IN `datein` DATE, IN `dateout` DATE, IN `type` INT, OUT `roomid` INT) NO
61 SQL
62 BEGIN
63     SELECT room.idroom as roomid FROM room WHERE (room.idroom
64         NOT IN (
65             SELECT booking.room_idroom FROM booking WHERE (booking.fromdate <
66                 datein AND booking.todate > datein) OR (booking.fromdate between
67                 datein AND dateout - INTERVAL 1 DAY)) AND room.status = 'open' AND
68                 room.roomtype_idroomtype = type) LIMIT 1;
69 END$$
70
71 CREATE DEFINER='root'@'localhost' PROCEDURE `availableroomtype` (IN `infromdate` DATE, IN `intodate` DATE) NO SQL
72 BEGIN
73     SELECT *, COUNT(*) FROM room LEFT JOIN roomtype ON room.
74         roomtype_idroomtype = roomtype.idroomtype
75         WHERE (room.idroom

```

```

57     NOT IN (
58     SELECT booking.room_idroom FROM booking WHERE (booking.fromdate <
59       infodate AND booking.todate > infodate) OR (booking.fromdate
60       between infodate AND intodate - INTERVAL 1 DAY)) AND room.status = ,
61       open')
62     GROUP BY roomtype.idroomtype;
63   END$$
64
65
66 CREATE DEFINER='root'@'localhost' PROCEDURE 'createonlinebooking' (IN 'datein' DATE, IN 'dateout' DATE, IN 'userid' INT, IN 'roomid' INT, IN 'coupon' VARCHAR(50), IN 'paymentid' INT, OUT 'bookingid' INT) NO SQL
67 BEGIN
68   DECLARE couponid INT;
69   SELECT specialoffer.idspecialoffer AS couponid FROM specialoffer
70   WHERE specialoffer.code = coupon;
71   INSERT INTO 'booking' ('idbooking', 'user_iduser', 'room_idroom', 'specialoffer_idspecialoffer', 'staff_idstaff', 'payment_idpayment', 'fromdate', 'todate', 'status') VALUES (NULL, userid, roomid, couponid,
72     NULL, paymentid, datein, dateout, 'unchecked');
73   SET bookingid = (SELECT LAST_INSERT_ID());
74
75 END$$
76
77 CREATE DEFINER='root'@'localhost' PROCEDURE 'createonlinepayment' (IN 'amount' DECIMAL(10,2), IN 'uid' INT, IN 'cardno' VARCHAR(50), OUT 'paymentid' INT) NO SQL
78 BEGIN
79   INSERT INTO 'payment' ('idpayment', 'timestamp', 'amount', 'user_iduser', 'method', 'cardno', 'staff_idstaff', 'type') VALUES (NULL, NOW(), amount, uid, 'creditcard', cardno, NULL, 'booking');
80   SET paymentid = (SELECT LAST_INSERT_ID());
81
82 END$$
83
84 CREATE DEFINER='root'@'localhost' PROCEDURE 'newwalkin' (IN 'inamount' DECIMAL(10,2), IN 'instaffid' INT, IN 'incardno' VARCHAR(50), IN 'inmethod' VARCHAR(20), OUT 'paymentid' INT) NO SQL
85 BEGIN
86   INSERT INTO payment VALUES (NULL, NOW(), inamount, NULL, inmethod, incardno, instaffid, 'booking', '');
87   SET paymentid = (SELECT LAST_INSERT_ID());
88
89
90 CREATE DEFINER='root'@'localhost' PROCEDURE 'newwalkinbooking' (IN 'infodate' DATE, IN 'intodate' DATE, IN 'instaffid' INT, IN 'inroomid' INT, IN 'offer' VARCHAR(50), IN 'paymentid' INT, OUT 'bookingid' INT) NO SQL
91 BEGIN
92   DECLARE codeid INT;
93   SELECT specialoffer.idspecialoffer AS codeid FROM specialoffer WHERE
94   specialoffer.code = offer;
95   INSERT INTO 'booking' ('idbooking', 'user_iduser', 'room_idroom', 'specialoffer_idspecialoffer', 'staff_idstaff', 'payment_idpayment', 'fromdate', 'todate', 'status') VALUES (NULL, userid, roomid, codeid, staff_idstaff, payment_idpayment, datein, dateout, 'unchecked');
96   SET bookingid = (SELECT LAST_INSERT_ID());
97
98 END$$

```

```

        fromdate', 'todate', 'status') VALUES (NULL, NULL, inroomid, codeid,
89      instaffid, paymentid, infromdate, intodate, 'unchecked');
90      SET bookingid = (SELECT LAST_INSERT_ID());
91
92  --
93  -- Functions
94  --
95 CREATE DEFINER='root'@'localhost' FUNCTION 'calc_coupon' ('amount'
96   DECIMAL(10,2), 'couponcode' VARCHAR(50)) RETURNS DECIMAL(10,2)
97   UNSIGNED NO SQL
98 BEGIN
99   DECLARE dsc DECIMAL(10,2);
100  SELECT discount into dsc FROM specialoffer WHERE specialoffer.code =
101    couponcode;
102  IF (dsc = NULL) THEN
103    return NULL;
104  ELSE
105    SET dsc = amount*(100-dsc)/100;
106    return dsc;
107  END IF;
108
109
110  -----
111
112  --
113  -- Table structure for table 'booking'
114  --
115
116 CREATE TABLE 'booking' (
117   'idbooking' int(11) NOT NULL,
118   'user_iduser' int(11) DEFAULT NULL,
119   'room_idroom' int(11) NOT NULL,
120   'specialoffer_idspecialoffer' int(11) DEFAULT NULL,
121   'staff_idstaff' int(11) DEFAULT NULL,
122   'payment_idpayment' int(11) NOT NULL,
123   'fromdate' date NOT NULL,
124   'todate' date NOT NULL,
125   'status' enum('checked','unchecked') NOT NULL,
126   'roomnumber' int(50) NOT NULL
127 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
128
129  --
130  -- Dumping data for table 'booking'
131  --
132
133 INSERT INTO 'booking' ('idbooking', 'user_iduser', 'room_idroom', 'specialoffer_idspecialoffer', 'staff_idstaff', 'payment_idpayment', 'fromdate', 'todate', 'status', 'roomnumber') VALUES
134 (1, 2, 1, NULL, NULL, 1, '2017-12-01', '2017-12-03', 'unchecked', 1),

```

```

135 (2, 2, 4, NULL, NULL, 1, '2017-12-01', '2017-12-03', 'unchecked', 2),
136 (3, 2, 1, NULL, NULL, 2, '2017-12-04', '2017-12-06', 'checked', 3),
137 (4, 2, 2, NULL, NULL, 2, '2017-12-04', '2017-12-06', 'unchecked', 4),
138 (5, 2, 1, NULL, NULL, 3, '2017-12-08', '2017-12-10', 'unchecked', 5),
139 (6, 3, 5, NULL, NULL, 4, '2017-12-01', '2017-12-03', 'unchecked', 6);
140
141 -- -----
142
143 --
144 -- Table structure for table `message`
145 --
146
147 CREATE TABLE `message` (
148     `idmessage` int(11) NOT NULL,
149     `staff_idstaff` int(11) DEFAULT NULL,
150     `message` text,
151     `timestamp` datetime DEFAULT NULL
152 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
153
154 --
155 -- Dumping data for table `message`
156 --
157
158 INSERT INTO `message` (`idmessage`, `staff_idstaff`, `message`, `timestamp`)
VALUES
159 (1, 1, 'welcome for my hotel', '2017-12-13 06:47:13'),
160 (2, 1, 'welcome for my hotel', '2017-12-13 06:47:23'),
161 (3, 1, 'welcome for my hotel', '2017-12-13 06:47:39'),
162 (4, 1, 'ddd', '2017-12-14 03:17:43'),
163 (5, 1, '', '2017-12-14 04:08:06');
164
165 -- -----
166
167 --
168 -- Table structure for table `payment`
169 --
170
171 CREATE TABLE `payment` (
172     `idpayment` int(11) NOT NULL,
173     `timestamp` datetime DEFAULT NULL,
174     `amount` decimal(10,2) NOT NULL,
175     `user_iduser` int(11) DEFAULT NULL,
176     `method` enum('cash','creditcard') NOT NULL,
177     `cardno` varchar(45) NOT NULL,
178     `staff_idstaff` int(11) DEFAULT NULL,
179     `type` enum('booking','service','','') NOT NULL,
180     `remark` varchar(50) DEFAULT NULL
181 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
182
183 --
184 -- Dumping data for table `payment`
185 --
186

```

```

187 INSERT INTO `payment`(`idpayment`, `timestamp`, `amount`, `user_iduser`,
188   `method`, `cardno`, `staff_idstaff`, `type`, `remark`) VALUES
189 (1, '2017-12-13 06:31:50', '54000.00', 2, 'creditcard', '', NULL,
190   'booking', NULL),
191 (2, '2017-12-13 06:36:18', '64000.00', 2, 'creditcard', '', NULL,
192   'booking', NULL),
193 (3, '2017-12-13 06:45:10', '40000.00', 2, 'creditcard', '', NULL,
194   'booking', NULL),
195 (4, '2017-12-14 15:09:55', '14000.00', 3, 'creditcard', '', NULL,
196   'booking', NULL),
197 (5, '2017-12-14 03:19:42', '98.00', 2, 'cash', '', NULL, 'service', NULL)
198 ;
199
200 -- -----
201
202
203
204
205
206
207
208
209 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
210
211 --
212 -- Dumping data for table `request`
213 --
214
215 INSERT INTO `request`(`idrequest`, `user_iduser`, `staff_idstaff`, `message`,
216   `status`, `replymessage`, `timestamp`, `replytimestamp`)
217   VALUES
218 (1, 2, NULL, 'Want fruit', 'closed', 'Okay', '2017-12-13 06:33:23',
219   '2017-12-13 06:35:26'),
220 (2, 3, NULL, 'jfhjf', 'closed', 'ooo', '2017-12-14 03:11:41',
221   '2017-12-14 03:18:38');
222
223 -- -----
224
225 -- Table structure for table `room`
226
227
228
229 CREATE TABLE `room` (
  `idroom` int(11) NOT NULL,
  `roomtype_idroomtype` int(11) NOT NULL,
  `roomname` varchar(45) NOT NULL,
  `status` enum('open','closed') NOT NULL

```

```

230 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
231
232 --
233 -- Dumping data for table `room`
234 --
235
236 INSERT INTO `room` (`idroom`, `roomtype_idroomtype`, `roomname`, `status`)
237   VALUES
238 (1, 1, 'Seaside', 'open'),
239 (2, 2, 'Ocean View1', 'open'),
240 (3, 2, 'Ocean View2', 'open'),
241 (4, 3, 'Supreme1', 'open'),
242 (5, 3, 'Supreme2', 'open'),
243 (6, 3, 'Supreme3', 'open'),
244 (7, 2, 'Gold', 'open');
245 -----
246
247 --
248 -- Table structure for table `roomtype`
249 --
250
251 CREATE TABLE `roomtype` (
252   `idroomtype` int(11) NOT NULL,
253   `name` varchar(45) NOT NULL,
254   `numdbed` int(11) NOT NULL,
255   `numsbed` int(11) NOT NULL,
256   `numbath` int(11) NOT NULL,
257   `numliving` int(11) NOT NULL,
258   `size` decimal(5,2) DEFAULT NULL,
259   `price` decimal(8,2) NOT NULL,
260   `numadult` int(11) NOT NULL,
261   `numchild` int(11) NOT NULL,
262   `pic` varchar(45) DEFAULT NULL
263 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
264
265 --
266 -- Dumping data for table `roomtype`
267 --
268
269 INSERT INTO `roomtype` (`idroomtype`, `name`, `numdbed`, `numsbed`, `numbath`,
270   `numliving`, `size`, `price`, `numadult`, `numchild`, `pic`)
271   VALUES
272 (1, 'Deluxe Pool Access', 2, 0, 2, 1, '60.00', '20000.00', 4, 2, 'del1'),
273 (2, 'Junior suite', 1, 1, 2, 1, '45.00', '12000.00', 3, 2, 'jus1'),
274 (3, 'Supreme1D', 1, 0, 1, 0, '32.00', '7000.00', 2, 1, 'sup1');
275 -----
276
277 --
278 -- Table structure for table `service`
279 --

```

```

280 CREATE TABLE `service` (
281     `idservice` int(11) NOT NULL,
282     `name` varchar(45) NOT NULL,
283     `price` decimal(6,2) NOT NULL
284 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
285 
286 --
287 -- Dumping data for table `service`
288 --
289 
290 INSERT INTO `service`(`idservice`, `name`, `price`) VALUES
291 (1, 'Rice', '49.00');
292 
293 -----
294 
295 --
296 -- Table structure for table `specialoffer`
297 --
298 
299 CREATE TABLE `specialoffer` (
300     `idspecialoffer` int(11) NOT NULL,
301     `staff_idstaff` int(11) NOT NULL,
302     `code` varchar(45) NOT NULL,
303     `discount` decimal(5,2) NOT NULL,
304     `status` enum('active','disabled') NOT NULL
305 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
306 
307 --
308 -- Dumping data for table `specialoffer`
309 --
310 
311 INSERT INTO `specialoffer`(`idspecialoffer`, `staff_idstaff`, `code`, `discount`, `status`) VALUES
312 (1, 11, 'god', '25.00', 'active'),
313 (2, 11, 'NOCODE', '0.00', 'active');
314 
315 -----
316 
317 --
318 -- Table structure for table `staff`
319 --
320 
321 CREATE TABLE `staff` (
322     `idstaff` int(11) NOT NULL,
323     `user_iduser` int(11) NOT NULL,
324     `salary` decimal(8,2) NOT NULL,
325     `position` varchar(45) NOT NULL,
326     `status` enum('active','nonactive') NOT NULL
327 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
328 
329 --
330 -- Dumping data for table `staff`
331 --

```

```

332
333 INSERT INTO `staff` ('idstaff', 'user_iduser', 'salary', 'position', 'status') VALUES
334 (1, 1, '980000.00', 'Head of Hotel', 'active');
335
336 -----
337
338 --
339 -- Stand-in structure for view 'staff_viewbooking'
340 -- (See below for the actual view)
341 --
342 CREATE TABLE `staff_viewbooking` (
343 `idbooking` int(11)
344 , `user_iduser` int(11)
345 , `roomnumber` int(50)
346 , `roomname` varchar(45)
347 , `discountcode` int(11)
348 , `staff_idstaff` int(11)
349 , `payment_idpayment` int(11)
350 , `fromdate` date
351 , `todate` date
352 , `status` enum('checked','unchecked')
353 , `name` varchar(45)
354 , `fname` varchar(45)
355 , `lname` varchar(45)
356 );
357
358 -----
359
360 --
361 -- Stand-in structure for view 'staff_viewmessage'
362 -- (See below for the actual view)
363 --
364 CREATE TABLE `staff_viewmessage` (
365 `message_idmessage` int(11)
366 , `name` varchar(45)
367 , `message` text
368 , `timestamp` datetime
369 , `fname` varchar(45)
370 , `lname` varchar(45)
371 );
372
373 -----
374
375 --
376 -- Stand-in structure for view 'staff_viewmessage2'
377 -- (See below for the actual view)
378 --
379 CREATE TABLE `staff_viewmessage2` (
380 `name` varchar(45)
381 , `message` text
382 , `staffid` int(11)
383 , `timestamp` datetime

```

```

384 );
385
386 -----
387
388 --
389 -- Stand-in structure for view 'staff_viewrequest'
390 -- (See below for the actual view)
391 --
392 CREATE TABLE 'staff_viewrequest' (
393   'idrequest' int(11)
394 , 'staff_idstaff' int(11)
395 , 'user_iduser' int(11)
396 , 'status' enum('open','closed')
397 , 'timestamp' datetime
398 , 'replytimestamp' datetime
399 );
400
401 -----
402
403 --
404 -- Stand-in structure for view 'staff_viewroom'
405 -- (See below for the actual view)
406 --
407 CREATE TABLE 'staff_viewroom' (
408   'idroom' int(11)
409 , 'roomname' varchar(45)
410 , 'status' enum('open','closed')
411 );
412
413 -----
414
415 --
416 -- Stand-in structure for view 'staff_viewservice'
417 -- (See below for the actual view)
418 --
419 CREATE TABLE 'staff_viewservice' (
420   'idservice' int(11)
421 , 'name' varchar(45)
422 , 'price' decimal(6,2)
423 );
424
425 -----
426
427 --
428 -- Stand-in structure for view 'staff_viewstaff'
429 -- (See below for the actual view)
430 --
431 CREATE TABLE 'staff_viewstaff' (
432   'idstaff' int(11)
433 , 'salary' decimal(8,2)
434 , 'position' varchar(45)
435 , 'status' enum('active','nonactive')
436 , 'email' varchar(45)

```

```

437 , 'fname' varchar(45)
438 , 'lname' varchar(45)
439 , 'address' varchar(100)
440 , 'dob' date
441 , 'personalid' varchar(15)
442 );
443
444 -----  

445
446 --
447 -- Stand-in structure for view 'staff_viewtransaction'
448 -- (See below for the actual view)
449 --
450 CREATE TABLE 'staff_viewtransaction' (
451 'user_iduser' int(11)
452 , 'fname' varchar(45)
453 , 'lname' varchar(45)
454 , 'amount' decimal(10,2)
455 , 'method' enum('cash','creditcard')
456 , 'type' enum('booking','service','','')
457 , 'staff_idstaff' int(11)
458 , 'timestamp' datetime
459 );
460
461 -----  

462
463 --
464 -- Stand-in structure for view 'staff_viewuser'
465 -- (See below for the actual view)
466 --
467 CREATE TABLE 'staff_viewuser' (
468 'iduser' int(11)
469 , 'usergroup_idusergroup' int(11)
470 , 'password' varchar(45)
471 , 'email' varchar(45)
472 , 'fname' varchar(45)
473 , 'lname' varchar(45)
474 , 'address' varchar(100)
475 , 'dob' date
476 , 'personalid' varchar(15)
477 );
478
479 -----  

480
481 --
482 -- Table structure for table 'user'
483 --
484
485 CREATE TABLE 'user' (
486   'iduser' int(11) NOT NULL,
487   'usergroup_idusergroup' int(11) NOT NULL,
488   'password' varchar(45) NOT NULL,
489   'email' varchar(45) NOT NULL,

```

```

490   'fname' varchar(45) NOT NULL,
491   'lname' varchar(45) NOT NULL,
492   'address' varchar(100) DEFAULT NULL,
493   'dob' date DEFAULT NULL,
494   'personalid' varchar(15) DEFAULT NULL
495 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
496
497 --
498 -- Dumping data for table `user`
499 --
500
501 INSERT INTO `user` (`iduser`, `usergroup_idusergroup`, `password`, `email`,
502   `fname`, `lname`, `address`, `dob`, `personalid`) VALUES
503 (1, 11, 'staff', 'staff', 'staff', '123/36', '1996-11-01', '1150
504 '),
505 (2, 1, 'user', 'user', 'user', '123/38', '1997-02-28', '1151'),
506 (3, 1, 'test', 'test', 'tt', 'tt', '23423', '2017-12-28', '11');
507
508 -----
509 -- Table structure for table `usergroup`
510 --
511
512 CREATE TABLE `usergroup` (
513   `idusergroup` int(11) NOT NULL,
514   `name` varchar(45) NOT NULL
515 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
516
517 --
518 -- Dumping data for table `usergroup`
519 --
520
521 INSERT INTO `usergroup` (`idusergroup`, `name`) VALUES
522 (1, 'customer'),
523 (2, 'goldcustomer'),
524 (3, 'platinumcustomer'),
525 (11, 'staff');
526
527 -----
528
529 --
530 -- Table structure for table `usergroup_has_message`
531 --
532
533 CREATE TABLE `usergroup_has_message` (
534   `usergroup_idusergroup` int(11) NOT NULL,
535   `message_idmessage` int(11) NOT NULL
536 ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
537
538 --
539 -- Dumping data for table `usergroup_has_message`
540 --

```

```

541
542 INSERT INTO `usergroup_has_message` ('usergroup_idusergroup', 'message_idmessage') VALUES
543 (1, 5),
544 (2, 2),
545 (3, 3);
546
547 -----
548
549 --
550 -- Structure for view 'staff_viewbooking'
551 --
552 DROP TABLE IF EXISTS 'staff_viewbooking';
553
554 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW 'staff_viewbooking' AS select `booking`.`idbooking` AS
'idbooking', `booking`.`user_iduser` AS 'user_iduser', `booking`.`
roomnumber` AS 'roomnumber', `room`.`roomname` AS 'roomname', `booking
`.`specialoffer_idspecialoffer` AS 'discountcode', `booking`.`
staff_idstaff` AS 'staff_idstaff', `booking`.`payment_idpayment` AS
'payment_idpayment', `booking`.`fromdate` AS 'fromdate', `booking`.`
todate` AS 'todate', `booking`.`status` AS 'status', `usergroup`.`name` AS
'name', `user`.`fname` AS 'fname', `user`.`lname` AS 'lname' from
(((`booking` left join `user` on((`user`.`iduser` = `booking`.`
user_iduser`))) left join `room` on((`room`.`idroom` = `booking`.`
room_idroom`))) left join `usergroup` on((`usergroup`.`idusergroup` =
`user`.`usergroup_idusergroup`)));
555
556 -----
557
558 --
559 -- Structure for view 'staff_viewmessage'
560 --
561 DROP TABLE IF EXISTS 'staff_viewmessage';
562
563 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW 'staff_viewmessage' AS select `usergroup_has_message`.`
message_idmessage` AS 'message_idmessage', `usergroup`.`name` AS 'name
', `message`.`message` AS 'message', `message`.`timestamp` AS 'timestamp
', `user`.`fname` AS 'fname', `user`.`lname` AS 'lname' from ((((
`usergroup_has_message` left join `message` on((`usergroup_has_message
`.`message_idmessage` = `message`.`idmessage`))) left join `staff` on
(`staff`.`idstaff` = `message`.`staff_idstaff`))) left join `usergroup` on(
(`usergroup_has_message`.`usergroup_idusergroup` = `usergroup`.`idusergroup`))
left join `user` on((`user`.`iduser` = `staff`.`user_iduser`)));
564
565 -----
566
567 --
568 -- Structure for view 'staff_viewmessage2'
569 --
570 DROP TABLE IF EXISTS 'staff_viewmessage2';

```

```

571
572 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW 'staff_viewmessage2' AS select 'usergroup'.'name' AS 'name',
'message'.'message' AS 'message', 'message'.'staff_idstaff' AS 'staffid',
'message'.'timestamp' AS 'timestamp' from ((usergroup join
usergroup_has_message) join message) where ((usergroup_has_message).'usergroup_idusergroup' = 'usergroup'.'idusergroup') and ('usergroup_has_message'.'message_idmessage' = 'message'.'idmessage') ;
573
574 -----
575
576 --
577 -- Structure for view 'staff_viewrequest'
578 --
579 DROP TABLE IF EXISTS 'staff_viewrequest';
580
581 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW 'staff_viewrequest' AS select 'request'.'idrequest' AS 'idrequest',
'request'.'staff_idstaff' AS 'staff_idstaff', 'request'.'user_iduser' AS 'user_iduser',
'request'.'status' AS 'status', 'request'.'timestamp' AS 'timestamp',
'request'.'replytimestamp' AS 'replytimestamp' from 'request' ;
582
583 -----
584
585 --
586 -- Structure for view 'staff_viewroom'
587 --
588 DROP TABLE IF EXISTS 'staff_viewroom';
589
590 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW 'staff_viewroom' AS select 'room'.'idroom' AS 'idroom',
'room'.'roomname' AS 'roomname', 'room'.'status' AS 'status' from 'room' ;
591
592 -----
593
594 --
595 -- Structure for view 'staff_viewservice'
596 --
597 DROP TABLE IF EXISTS 'staff_viewservice';
598
599 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW 'staff_viewservice' AS select 'service'.'idservice' AS 'idservice',
'service'.'name' AS 'name', 'service'.'price' AS 'price' from 'service' ;
600
601 -----
602
603 --
604 -- Structure for view 'staff_viewstaff'
605 --

```

```

606 DROP TABLE IF EXISTS `staff_viewstaff`;
607
608 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW `staff_viewstaff` AS select `staff`.`idstaff` AS `idstaff`,
`staff`.`salary` AS `salary`, `staff`.`position` AS `position`,
`staff`.`status` AS `status`, `user`.`email` AS `email`, `user`.`fname`
AS `fname`, `user`.`lname` AS `lname`, `user`.`address` AS `address`,
`user`.`dob` AS `dob`, `user`.`personalid` AS `personalid` from (`staff`
left join `user` on((`user`.`iduser` = `staff`.`user_iduser`))) ;
609
610 -----
611
612 --
613 -- Structure for view `staff_viewtransaction`
614 --
615 DROP TABLE IF EXISTS `staff_viewtransaction`;
616
617 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW `staff_viewtransaction` AS select `payment`.`user_iduser` AS `user_iduser`,
`user`.`fname` AS `fname`, `user`.`lname` AS `lname`, `payment`.`amount` AS `amount`,
`payment`.`method` AS `method`, `payment`.`type` AS `type`, `payment`.`staff_idstaff` AS `staff_idstaff`,
`payment`.`timestamp` AS `timestamp` from (`payment`
left join `user` on((`user`.`iduser` = `payment`.`user_iduser`))) ;
618
619 -----
620
621 --
622 -- Structure for view `staff_viewuser`
623 --
624 DROP TABLE IF EXISTS `staff_viewuser`;
625
626 CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY
DEFINER VIEW `staff_viewuser` AS select `user`.`iduser` AS `iduser`,
`user`.`usergroup_idusergroup` AS `usergroup_idusergroup`, `user`.`password` AS `password`,
`user`.`email` AS `email`, `user`.`fname` AS `fname`, `user`.`lname` AS `lname`,
`user`.`address` AS `address`, `user`.`dob` AS `dob`, `user`.`personalid` AS `personalid` from `user` ;
627
628 --
629 -- Indexes for dumped tables
630 --
631
632 --
633 -- Indexes for table `booking`
634 --
635 ALTER TABLE `booking`
ADD PRIMARY KEY (`idbooking`),
ADD KEY `fk_booking_user1_idx` (`user_iduser`),
ADD KEY `fk_booking_room1_idx` (`room_idroom`),
ADD KEY `fk_booking_specialoffer1_idx` (`specialoffer_idspecialoffer`),
ADD KEY `fk_booking_staff1_idx` (`staff_idstaff`),
ADD KEY `fk_booking_payment1_idx` (`payment_idpayment`);

```

```

642
643  --
644  -- Indexes for table 'message'
645  --
646 ALTER TABLE `message`
647   ADD PRIMARY KEY (`idmessage`),
648   ADD KEY `fk_message_staff1_idx` ('staff_idstaff');
649
650  --
651  -- Indexes for table 'payment'
652  --
653 ALTER TABLE `payment`
654   ADD PRIMARY KEY (`idpayment`),
655   ADD KEY `fk_payment_user1_idx` ('user_iduser'),
656   ADD KEY `fk_payment_staff1_idx` ('staff_idstaff');
657
658  --
659  -- Indexes for table 'request'
660  --
661 ALTER TABLE `request`
662   ADD PRIMARY KEY (`idrequest`),
663   ADD KEY `fk_request_user1_idx` ('user_iduser'),
664   ADD KEY `fk_request_staff1_idx` ('staff_idstaff');
665
666  --
667  -- Indexes for table 'room'
668  --
669 ALTER TABLE `room`
670   ADD PRIMARY KEY (`idroom`),
671   ADD KEY `fk_room_roomtype1_idx` ('roomtype_idroomtype');
672
673  --
674  -- Indexes for table 'roomtype'
675  --
676 ALTER TABLE `roomtype`
677   ADD PRIMARY KEY (`idroomtype`);
678
679  --
680  -- Indexes for table 'service'
681  --
682 ALTER TABLE `service`
683   ADD PRIMARY KEY (`idservice`);
684
685  --
686  -- Indexes for table 'specialoffer'
687  --
688 ALTER TABLE `specialoffer`
689   ADD PRIMARY KEY (`idspecialoffer`),
690   ADD KEY `fk_specialoffer_staff1_idx` ('staff_idstaff');
691
692  --
693  -- Indexes for table 'staff'
694  --

```

```

695 ALTER TABLE `staff`
696   ADD PRIMARY KEY (`idstaff`),
697   ADD KEY `fk_staff_user1_idx`(`user_iduser`);
698 
699 --
700 -- Indexes for table `user`
701 --
702 ALTER TABLE `user`
703   ADD PRIMARY KEY (`iduser`),
704   ADD KEY `fk_user_usergroup1_idx`(`usergroup_idusergroup`);
705 
706 --
707 -- Indexes for table `usergroup`
708 --
709 ALTER TABLE `usergroup`
710   ADD PRIMARY KEY (`idusergroup`);
711 
712 --
713 -- Indexes for table `usergroup_has_message`
714 --
715 ALTER TABLE `usergroup_has_message`
716   ADD PRIMARY KEY (`usergroup_idusergroup`, `message_idmessage`),
717   ADD KEY `fk_usergroup_has_message_message1_idx`(`message_idmessage`),
718   ADD KEY `fk_usergroup_has_message_usergroup1_idx`(`usergroup_idusergroup`);
719 
720 --
721 -- AUTO_INCREMENT for dumped tables
722 --
723 
724 --
725 -- AUTO_INCREMENT for table `booking`
726 --
727 ALTER TABLE `booking`
728   MODIFY `idbooking` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
729 
730 --
731 -- AUTO_INCREMENT for table `message`
732 --
733 ALTER TABLE `message`
734   MODIFY `idmessage` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
735 
736 --
737 -- AUTO_INCREMENT for table `payment`
738 --
739 ALTER TABLE `payment`
740   MODIFY `idpayment` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
741 
742 --
743 -- AUTO_INCREMENT for table `request`
744 --
745 ALTER TABLE `request`
746   MODIFY `idrequest` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;

```

```

747 --
748 --
749 -- AUTO_INCREMENT for table 'room'
750 --
751 ALTER TABLE `room`
752   MODIFY `idroom` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=8;
753
754 --
755 -- AUTO_INCREMENT for table 'roomtype'
756 --
757 ALTER TABLE `roomtype`
758   MODIFY `idroomtype` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
759
760 --
761 -- AUTO_INCREMENT for table 'service'
762 --
763 ALTER TABLE `service`
764   MODIFY `idservice` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
765
766 --
767 -- AUTO_INCREMENT for table 'specialoffer'
768 --
769 ALTER TABLE `specialoffer`
770   MODIFY `idspecialoffer` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT
    =3;
771
772 --
773 -- AUTO_INCREMENT for table 'staff'
774 --
775 ALTER TABLE `staff`
776   MODIFY `idstaff` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
777
778 --
779 -- AUTO_INCREMENT for table 'user'
780 --
781 ALTER TABLE `user`
782   MODIFY `iduser` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
783
784 --
785 -- AUTO_INCREMENT for table 'usergroup'
786 --
787 ALTER TABLE `usergroup`
788   MODIFY `idusergroup` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT
    =12;
789
790 --
791 -- Constraints for dumped tables
792 --
793
794 --
795 -- Constraints for table 'booking'
796 --
797 ALTER TABLE `booking`
```

```

798 ADD CONSTRAINT `fk_booking_payment1` FOREIGN KEY (`payment_idpayment`)
    REFERENCES `payment` (`idpayment`) ON DELETE CASCADE ON UPDATE NO
    ACTION ,
799 ADD CONSTRAINT `fk_booking_room1` FOREIGN KEY (`room_idroom`)
    REFERENCES `room` (`idroom`) ON DELETE CASCADE ON UPDATE NO ACTION ,
800 ADD CONSTRAINT `fk_booking_specialoffer1` FOREIGN KEY (`specialoffer_idspecialoffer`)
    REFERENCES `specialoffer` (`idspecialoffer`) ON DELETE CASCADE ON UPDATE NO ACTION ,
801 ADD CONSTRAINT `fk_booking_staff1` FOREIGN KEY (`staff_idstaff`)
    REFERENCES `staff` (`idstaff`) ON DELETE CASCADE ON UPDATE NO ACTION ,
802 ADD CONSTRAINT `fk_booking_user1` FOREIGN KEY (`user_iduser`)
    REFERENCES `user` (`iduser`) ON DELETE CASCADE ON UPDATE NO ACTION ;
803
804 --
805 -- Constraints for table 'message'
806 --
807 ALTER TABLE `message`
808     ADD CONSTRAINT `fk_message_staff1` FOREIGN KEY (`staff_idstaff`)
        REFERENCES `staff` (`idstaff`) ON DELETE NO ACTION ON UPDATE NO ACTION
        ;
809
810 --
811 -- Constraints for table 'payment'
812 --
813 ALTER TABLE `payment`
814     ADD CONSTRAINT `fk_payment_staff1` FOREIGN KEY (`staff_idstaff`)
        REFERENCES `staff` (`idstaff`) ON DELETE CASCADE ON UPDATE NO ACTION ,
815     ADD CONSTRAINT `fk_payment_user1` FOREIGN KEY (`user_iduser`)
        REFERENCES `user` (`iduser`) ON DELETE CASCADE ON UPDATE NO ACTION ;
816
817 --
818 -- Constraints for table 'request'
819 --
820 ALTER TABLE `request`
821     ADD CONSTRAINT `fk_request_staff1` FOREIGN KEY (`staff_idstaff`)
        REFERENCES `staff` (`idstaff`) ON DELETE NO ACTION ON UPDATE NO ACTION
        ,
822     ADD CONSTRAINT `fk_request_user1` FOREIGN KEY (`user_iduser`)
        REFERENCES `user` (`iduser`) ON DELETE NO ACTION ON UPDATE NO ACTION ;
823
824 --
825 -- Constraints for table 'room'
826 --
827 ALTER TABLE `room`
828     ADD CONSTRAINT `fk_room_roomtype1` FOREIGN KEY (`roomtype_idroomtype`)
        REFERENCES `roomtype` (`idroomtype`) ON DELETE NO ACTION ON UPDATE NO
        ACTION ;
829
830 --
831 -- Constraints for table 'specialoffer'
832 --
833 ALTER TABLE `specialoffer`
834     ADD CONSTRAINT `fk_specialoffer_staff1` FOREIGN KEY (`staff_idstaff`)

```

```

    REFERENCES 'staff' ('idstaff') ON DELETE NO ACTION ON UPDATE NO ACTION
;

835 --
836 --
837 -- Constraints for table 'staff'
838 --
839 ALTER TABLE 'staff'
840   ADD CONSTRAINT 'fk_staff_user1' FOREIGN KEY ('user_iduser') REFERENCES
     'user' ('iduser') ON DELETE NO ACTION ON UPDATE NO ACTION;
841 --
842 --
843 -- Constraints for table 'user'
844 --
845 ALTER TABLE 'user'
846   ADD CONSTRAINT 'fk_user_usergroup1' FOREIGN KEY ('usergroup_idusergroup')
     REFERENCES 'usergroup' ('idusergroup') ON DELETE NO ACTION ON
     UPDATE NO ACTION;
847 --
848 --
849 -- Constraints for table 'usergroup_has_message'
850 --
851 ALTER TABLE 'usergroup_has_message'
852   ADD CONSTRAINT 'fk_usergroup_has_message_message1' FOREIGN KEY (''
     message_idmessage') REFERENCES 'message' ('idmessage') ON DELETE NO
     ACTION ON UPDATE NO ACTION,
853   ADD CONSTRAINT 'fk_usergroup_has_message_usergroup1' FOREIGN KEY (''
     usergroup_idusergroup') REFERENCES 'usergroup' ('idusergroup') ON
     DELETE NO ACTION ON UPDATE NO ACTION;
854 COMMIT;
855
856 /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
857 /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
858 /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

## A.2 Lines count

```

1
2 Line counts for project /Users/macbookair13/Documents/GitHub/DatabaseLab.
3 Generated by the Atom editor package Line-Count on December 14 2017
   19:02.
4 Counts are in order of source, comments, and total.
5
6 Files
7 -----
8      5   0      5 database/addarray.php
9      40   0     51 database/booking.php
10     76   0     85 database/bookinglogin.php
11      8   0      8 database/connect.php
12     26   0     34 database/customer.php
13    397   31    454 database/default.css
14      5   0      5 database/destroy.php
15   109   0    113 database/facility.php
16     81   0     91 database/helperfunctions.php
```

17	83	0	94	database/home.php
18	1	0	1	database/img/fb.svg
19	75	0	84	database/login.php
20	28	0	28	database/loginaction.php
21	5	0	5	database/logout.php
22	31	0	38	database/mainstaff.php
23	28	0	35	database/mybooking.php
24	42	0	50	database/myprofile.php
25	39	0	47	database/mytransaction.php
26	139	7	162	database/newbooking.php
27	46	2	53	database/notice.php
28	37	0	39	database/php/addroom.php
29	53	0	53	database/php/addroomtype.php
30	10	0	10	database/php/addroomtype_action.php
31	8	0	8	database/php/connect.php
32	35	2	40	database/php/customerdashboard.php
33	0	0	1	database/php/editroom.php
34	2	0	3	database/php/formaction.php
35	50	2	54	database/php/login.php
36	50	0	51	database/php/register.php
37	61	0	67	database/php/room.php
38	4	0	6	database/php/sessionexample.php
39	35	2	39	database/php/staffdashboard.php
40	14	0	15	database/registeraction.php
41	27	0	36	database/request.php
42	26	0	34	database/review.php
43	79	0	83	database/room.php
44	78	1	89	database/selectguest.php
45	44	0	53	database/sendrequest.php
46	38	2	42	database/temp.html
47	97	0	106	database/temp.php
48	37	0	46	database/template.php
49	5	0	5	database/unset.php
50	33	0	42	database/viewrequest.php
51	14	0	14	newpage/addcart.php
52	17	6	24	newpage/applycoupon.php
53	64	1	79	newpage/booking.php
54	31	1	38	newpage/booking_staff.php
55	43	1	50	newpage/booking_staff_checkin.php
56	62	1	76	newpage/booking_staff_create.php
57	62	1	79	newpage/booking_staff_edit.php
58	78	1	90	newpage/booking_staff_view.php
59	18	0	19	newpage/calprice.php
60	21	0	21	newpage/checkdateAction.php
61	21	0	21	newpage/checkin_action.php
62	173	2	187	newpage/confirm.php
63	8	0	8	newpage/connect.php
64	85	4	98	newpage/createaction.php
65	41	14	61	newpage/createbookingpayment.php
66	50	2	60	newpage/dashboard.php
67	38	1	47	newpage/dashboard_staff.php
68	1195	75	1374	newpage/default.css
69	6	0	6	newpage/del_servicecart.php

70	18	0	19	newpage/deleteaction.php
71	69	1	81	newpage/editaction.php
72	41	0	50	newpage/editprofile.php
73	28	1	30	newpage/editprofileAction.php
74	91	1	98	newpage/facility.php
75	91	1	105	newpage/finishbooking.php
76	28	1	36	newpage/fullpage_template.php
77	153	10	180	newpage/helperfunction.php
78	81	1	94	newpage/home.php
79	1	0	1	newpage/img/fb.svg
80	105	1	113	newpage/login.php
81	41	4	46	newpage/loginaction.php
82	5	0	5	newpage/logout.php
83	30	1	37	newpage/message_staff.php
84	55	1	68	newpage/message_staff_edit.php
85	68	1	83	newpage/message_staff_sent.php
86	76	1	88	newpage/message_staff_view.php
87	44	0	54	newpage/myprofile.php
88	49	0	61	newpage/mytransaction.php
89	27	1	35	newpage/newbooking.php
90	26	0	26	newpage/registeraction.php
91	9	0	9	newpage/removecart.php
92	4	1	5	newpage/replymessage.php
93	28	0	37	newpage/request.php
94	29	1	37	newpage/request_staff.php
95	76	1	93	newpage/request_staff_edit.php
96	75	1	86	newpage/request_staff_view.php
97	33	1	39	newpage/room.php
98	29	1	36	newpage/room_staff.php
99	51	1	61	newpage/room_staff_edit.php
100	64	3	78	newpage/room_staff_view.php
101	120	10	149	newpage/selectroom.php
102	45	1	57	newpage/sendrequest.php
103	22	2	24	newpage/sendrequestAction.php
104	31	1	39	newpage/service_staff.php
105	105	2	118	newpage/service_staff_charge.php
106	47	1	64	newpage/service_staff_create.php
107	47	2	63	newpage/service_staff_edit.php
108	78	1	91	newpage/service_staff_view.php
109	30	1	37	newpage/staff_staff.php
110	54	1	69	newpage/staff_staff_create.php
111	61	1	76	newpage/staff_staff_edit.php
112	76	1	86	newpage/staff_staff_view.php
113	59	1	70	newpage/success.php
114	29	1	37	newpage/transaction_staff.php
115	64	1	75	newpage/transaction_staff_view.php
116	30	1	37	newpage/user_staff.php
117	52	1	67	newpage/user_staff_create.php
118	80	1	97	newpage/user_staff_edit.php
119	78	1	90	newpage/user_staff_view.php
120	32	2	34	newpage/viewreqmessage.php
121	63	1	74	newpage/viewrequest.php
122	47	15	62	newpage/walkinbooking.php

```
123
124 Directories
125 -----
126    2087    49   2365  database
127        1      0      1  database/img
128    345     6   371  database/php
129   4802   195   5659 newpage
130        1      0      1  newpage/img
131
132 Types
133 -----
134    1592   106   1828  css
135        38      2      42  html
136   5257   136   6152  php
137        2      0      2  svg
138
139 Total
140 -----
141    6889   244   8024
```

### A.3 Github URL

This is the url of our project's repository <https://github.com/naughtybunnies/DatabaseLab/tree/aftermid>