

# COMP2411 Database Systems

## Term Project Final Report

Topic: Tourism

Group 22

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### **Part 1: Introduction**

#### **1.1 Topic**

Tourism

#### **1.2 Development Background**

Based on the database system designed by our group, our application is a tourism platform, which provides convenience for both users (intended tourists) and administrators. Through our platform, the tourists can have easy access to the information of attractions, accommodation and food, and make a more reasonable and satisfying travel plan of their own. Also, the administrators can manage the user accounts and decide what information to provide them, and also can have access to some basic statistics of the website's overall usage.

#### **1.3 The technologies of this system**

MySQL: To interact with database

ERD: Database structure design

HTML: To set up the web pages

PHP: To connect database and HTML

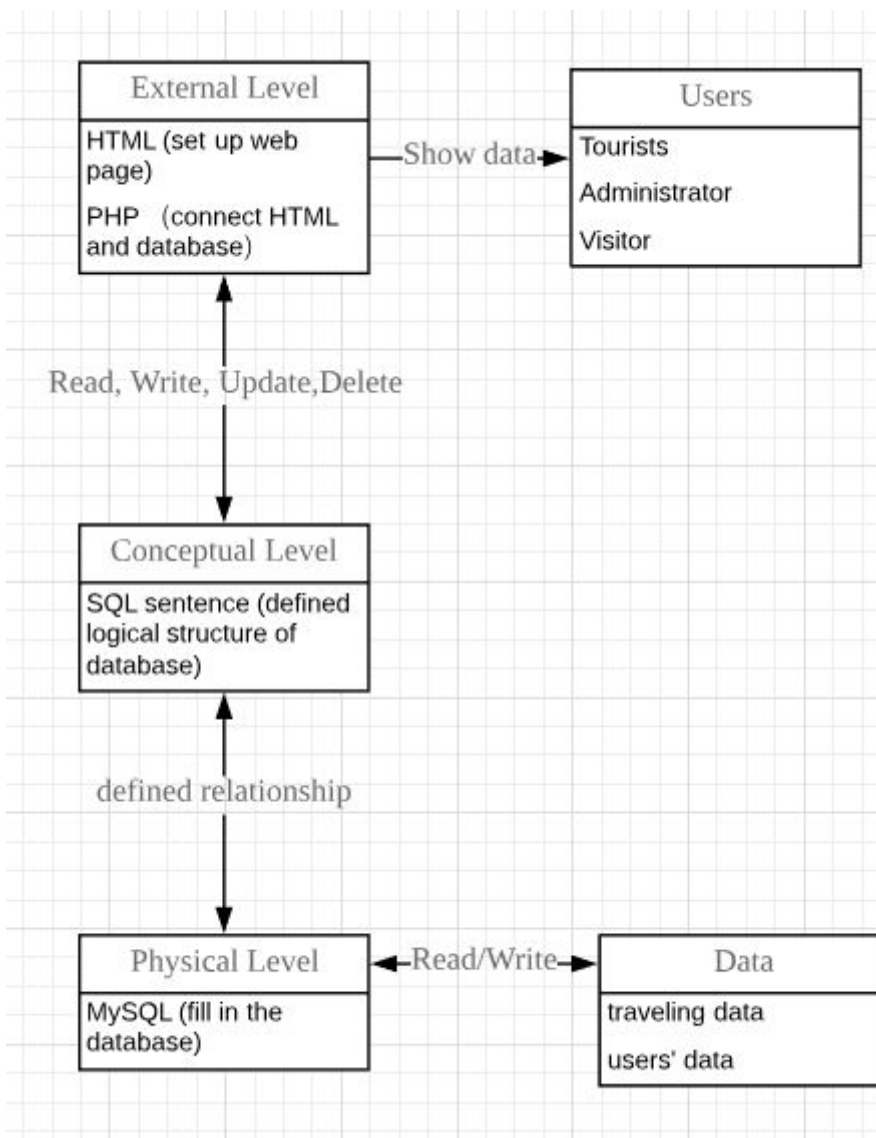
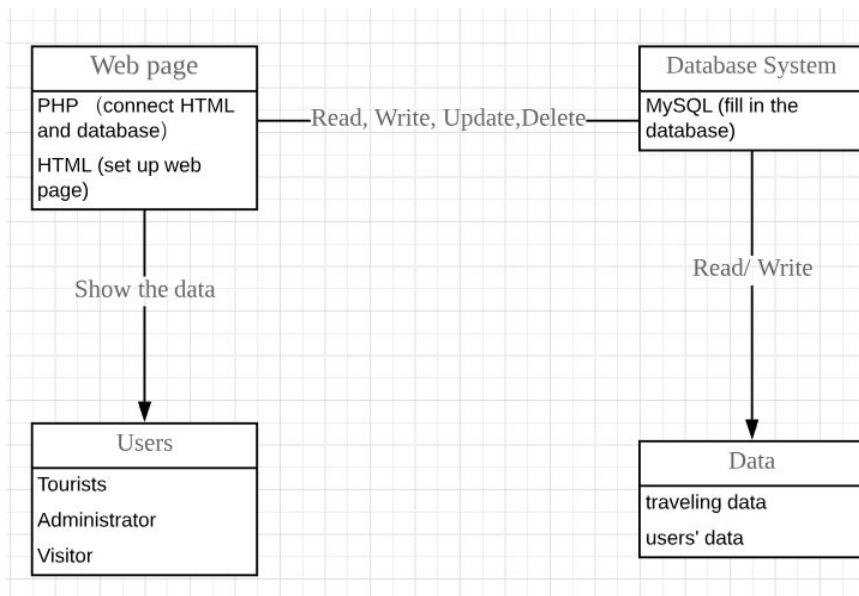
CSS: To design the layout of the web pages

JavaScript: Enable interactive web pages

Ajax (belongs to JS): Send and retrieve data asynchronously without interfering with the display and behavior of the existing page

JQuery (belongs to JS): Display the calendar with retrieved data.

#### **1.4 System Architecture**

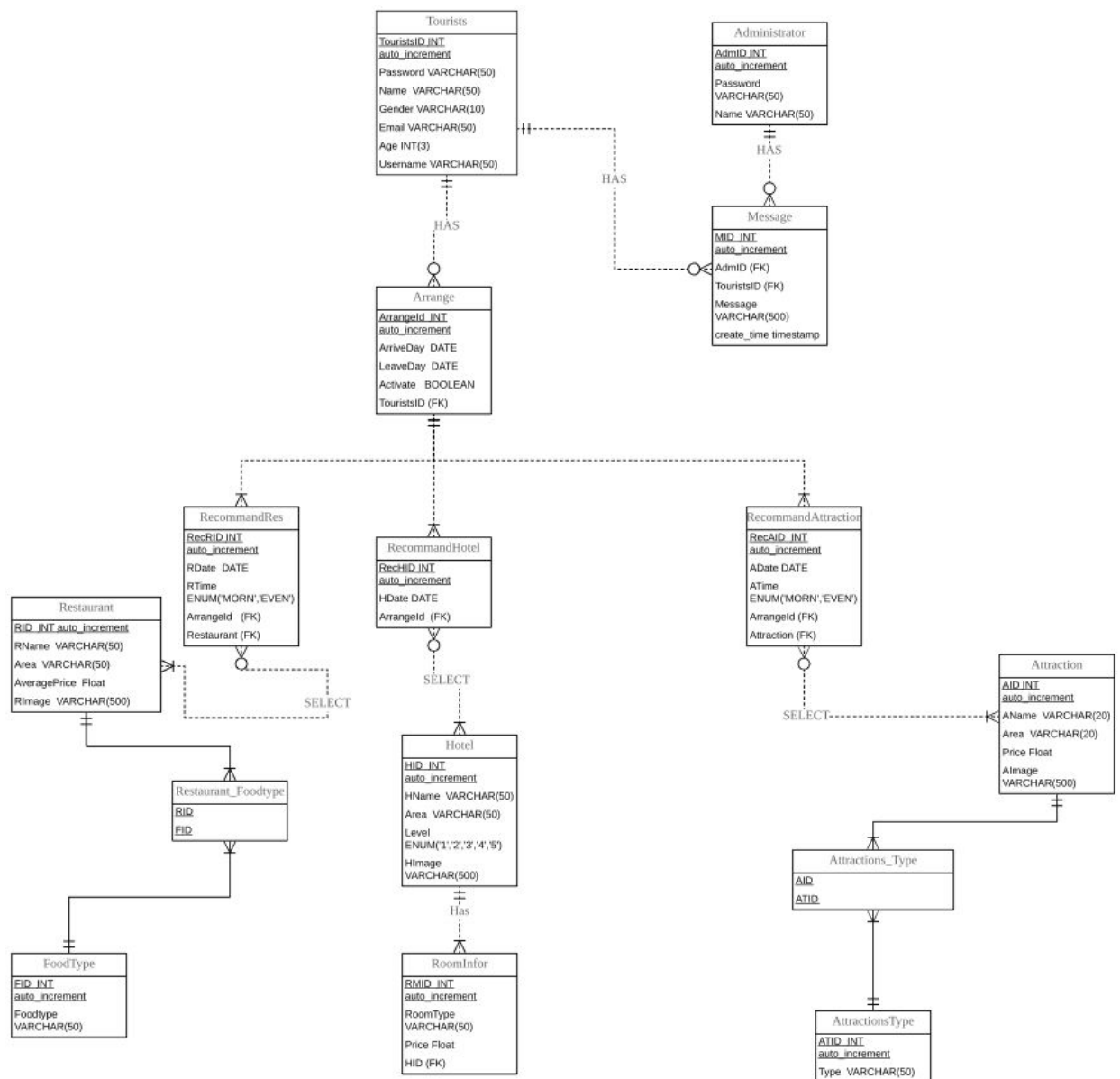


## Part 2 Database Design

### 2.1 Entity Relationship Diagram (ERD)

The following is our ERD design with 15 tables in total.

The name of each table is on the top and all the primary keys are marked with underline.



## 2.2 Table schemas

BCNF

Tourists ( TouristsID INT auto\_increment, Password VARCHAR(50), Name VARCHAR(50), Gender VARCHAR(10), Email VARCHAR(50), Age INT(3), Username VARCHAR(50) )

Administrator ( AdmID INT auto\_increment, Password VARCHAR(50), Name VARCHAR(50) )

Message ( MID INT auto\_increment, AdmID\*, TouristsID\*, Message VARCHAR(500), create\_time timestamp )

Arrange ( ArrangedID INT auto\_increment, ArriveDay DATE, LeaveDay DATE, Activate BOOLEAN, TouristsID\* )

RecommandRes ( RecRID INT auto\_increment, RDate DATE, RTime ENUM('MORN','EVEN'), ArrangedID\*, Restaurant\* )

Restaurant ( RID INT auto\_increment, RName VARCHAR(50), Area VARCHAR(50), AveragePrice Float, RImage VARCHAR(500) )

Restaurant\_Foodtype ( RID\*, FID\* )

FoodType ( FID INT auto\_increment, Foodtype VARCHAR(50) )

RecommandHotel ( RecHID INT auto\_increment, HDate DATE, ArrangedID\* )

Hotel ( HID INT auto\_increment, HName VARCHAR(50), Area VARCHAR(50), Level ENUM('1','2','3','4','5'), HImage VARCHAR(500) )

RoomInfor ( RMID INT auto\_increment, RoomType VARCHAR(50), Price Float, HID\* )

RecommandAttraction ( RecAID INT auto\_increment, ADate DATE, ATime ENUM('MORN','EVEN'), ArrangedID\*, Attraction\* )

Attraction ( AID INT auto\_increment, AName VARCHAR(20), Area VARCHAR(20), Price Float, AImage VARCHAR(500) )

Attractions\_Type ( AID\*, ATID\* )

AttractionsType ( ATID INT auto\_increment, Type VARCHAR(50) )

(\* : foreign key)

### 2.3 Considerations Made

- Each restaurant possibly contains multiple types of food.  
In order to avoid deleting anomaly, we separate table restaurant and table food type(both of them have their own primary key), and connect them by another table named Restaurant\_Foodtype, then tourists can select restaurant by both restaurant name and food type.
- Each attraction possibly contains multiple types of scenery.  
The solution is similar as above.
- When deleting the data in tables, we need to consider whether attributes as the primary key in this table serves as a foreign key in other tables. Such as, when we are deleting one user as admin, we need firstly delete the Arrange table whose FK is TouristID, since the primary key in Arrange table also serves as FK in other three Recommend tables, we need to delete them first.
- A user may have multiple plans which he/she made before. If we simply delete the plans before, the user can not view the previous plan. So we use the logically deletion. Add an attribute “Activate” to denote if the plan has been done.
- Use surrogate key in the database to simplify the primary key

### 2.4 Discussion

Rational and trade-off:

Based on BCNF, most of tables contain their own primary key and all attributes in these tables are determined by the primary key.

In order to be normalization and reduce redundancy, we only separate a table into two tables and use another table to connect them.

## Part 3: Functional requirement:

### 3.1 General Functions

#### 1. Welcome Page

- File: index.php
- Elements:
  - Navigation bar:
    - Home -> welcome page
    - Attraction -> attractions display page
    - Restaurant -> restaurants display page
    - Accommodation -> accomodation display page
    - Plan -> add a new plan page / login page
    - About -> Developer information page
    - Login(image) -> tourist login page
  - Links:
    - “Attraction” image card -> attractions display page
    - “Restaurant” image card -> restaurants display page
    - “Accommodation” image card -> accommodation display page

#### 2. Registration Page

- File: Registration.php
- Operation:
  - Input:
    - Email, Full Name, Gender, Age, Username, Password (Input password twice to confirm the password)
  - Rules:
    - Two password entered must be the same;
    - Age and Gender must not be the default option, otherwise the submit button will be invalid;
    - Length of Username and Full Name must not exceed 16 characters;
    - The text entered in Email text area must be in email format;
  - Output:
    - (true & false)
    - If successful, insert the user’s information into the database and return the userID to the page for 1 second. Then, jump to the user information page (PersonInfo.php).
    - Otherwise, it will prompt user to go back to Registration page again
- Implementation: Post tourists’ personal information to database  
sql=insert into Tourists(Email,Password,Gender,Age,Name,Username)  
values ('\$Email','\$Password','\$Gender','\$Age','\$Name','\$Username')

#### 3. Search Page



- Search button position:  
In the gray bar under the navigation bar in:  
attraction/restaurant/accommodation pages
- Operation:
  - Input: Keyword the users want to search
  - How the data matched against the input: Use the function “Like” in SQL to match the keyword and Name of Attraction/Hotel/Restaurant
  - Output: The name of Attraction/Hotel/Restaurant and their area and also the picture of it
  - If no result found,output “No result found”
- Implementation:  
Use the function LIKE in sql  
SQL=select AName, Area, AImage from Attraction join Attractions\_Type where Attraction.AID=Attractions\_Type.AID AND AName LIKE ‘%\$Key%’

#### 4. Advanced Search

- File: advancedSearch.php
- Search button position:  
In the gray bar under the navigation bar in:  
attraction/restaurant/accommodation pages
- Operation:
  - Input/parameters:
    - 1) Choose the Type(Attraction/Hotel/Restaurant)
    - 2) Input the keyword
    - 3) Select the Area
    - 4) Select the price range
  - Results  
The name of Attraction/Hotel/Restaurant and their area and also the picture of it .If no result found,output “No result found”.  
For the Hotel, the user can also get to know the Room type, because in a Hotel ,there are different Room type, which has different price
- Implementation:  
First get the striction the user input from Post, and store them in some arrays, because the users will select multiple areas/price, every time, choose one element in the array and use sql to get the information.

```
sql=SELECT * FROM Attraction WHERE AName LIKE
'%$sname%' AND ((Price>=$sprice AND Price<=$supper) or (
Price >=$sprice1 AND Price <$supper1) or( Price >=$sprice3
AND Price <$supper3) or Price>=$sprice2) AND Area LIKE
'%$sarea%'
```

## 3.2 Function for Tourists:

### 1. Login Page

- File: Login.php
- Operation:
  - Enter the tourist's ID and corresponding password to jump to personal information page
  - Freely switch between Admin login mode and Tourist login mode
- Implementation: compare the tourists ID and password visitor input with the data in database.  
SQL:  
select count(\*) as count from Tourists where TouristsID = \$TouristsID and Password = \$Password and Username=\$Username;"

### 2. Manage account information:

- File: PersonInfo.php
- Operation:
  - Read personal information
  - Edit personal information  
(Click red button "Edit" next to each item, and input information and finally click "confirm" red button.)
  - Logout the account, linking to welcome page
- Implementation:  
Get the user ID from session: \$ID = \$\_SESSION['login\_tourist'];  
And get the user information of the corresponding user ID:  
  
UPDATE Tourists SET Username='\$sname' where TouristsID='\$ID';  
UPDATE Tourists SET Name='\$fname' where TouristsID='\$ID';  
UPDATE Tourists SET Gender='\$gender' where TouristsID='\$ID';  
UPDATE Tourists SET Age='\$age' where TouristsID = '\$ID';  
UPDATE Tourists SET Email='\$email' where TouristsID = '\$ID';

(Edit: Username, Full name, Gender, Age and tour plans)

### 3. Receive message

- File: PersonInfo.php
- Operation:
  - Read messages on the Notice Board
- Implementation:
  - First get the restriction the user input from Post, and update corresponding database.  
eg. for edition of username  

```
$uname = $_POST['unameInput'];  
$result = mysqli_query($link, "UPDATE Tourists SET  
Username='$uname' where TouristsID = '$ID'");
```
  - As for reading news, first exact message from database  

```
$sql=" select * from Message WHERE TouristsID = $ID  
ORDER BY creat_time";
```

  
Then, print the corresponding messages on the Notice Board.  
Due to the number of messages is not fixed, we use while statement to ensure all the messages are extracted.  

```
while($row = mysqli_fetch_assoc($result)){  
<?php echo $row['Message']." ON ".$row['creat_time'] ?>  
    $name[$i]=$row['Message'];  
    $i=$i+1;}
```

### 4. Making travel plan:

- File: insertatr.php, insertres.php, insertacc.php
- Operation:
  - 1)User choose the attraction/restaurant/hotel they like
  - 2)User choose the date and time based on their arrange
  - 3)The backend php insert the choices of the user into corresponding table
  - 4)View the plan (SEE POINT 5)
- Implementation:
  - 1)Show the available choices to users: store the sql result in an array and make each element as available options  
(echo"<option value='\$name[\$i]'>--\$name[\$i]--</option>")
  - 2)Get the choices of user from the array Post
  - 3)Insert into table:  
  
\*Get the ArrangeID which belongs to the user and is also activate  
(A user may have many plans but only one can be activated)  

```
$sql="SELECT ArrangeId FROM Arrange WHERE TouristsID =  
'$USERID' and Activate=0"
```

  
  
\*Insert the data  

```
$sql=INSERT INTO RecommandAttraction ( Date, Time, ArrangeId,  
AID) VALUES('$day','$time',$arrangeid,$aid)
```

### 5. View the travel plan:

- File: addNewPlan.php, plan.php
- Operation:
  - 1) Add a new plan (addNewPlan.php)
    - Input: the arrival date and departure date of their travel plan by selecting the date from the calendar or typing by keyboard.
    - Rule:  
Show “success” if selected both dates;  
Show unsuccess page that prompting input error and return to the original page if lacking date input.
  - 2) View the plan (plan.php, enter by sidebar)  
Tourists can view their customized plan with selected events in “plan schedule” in a calendar form by month, week, day and list.

- Implementation:
  - 1) Add the dates to their arrange:

```
UPDATE Arrange SET ArriveDay=$arriveday,LeaveDay=$leaveday
where TouristsID=$id
```

#### 2) View the plan:

- Select all the events that users add in to their plan from three tables in database:  

```
$sql1="SELECT AName, ADate, ATime
FROM RecommandAttraction as RA, Arrange as AR,
Attraction as A
WHERE AR.arrangeId = RA.arrangeId AND A.AID =
RA.AID AND AR.touristsId = $USERID;"
```

\$sql2 is selecting restaurant, which is similar to \$sql1.

```
$sql3 = "SELECT HName, HDate
FROM RecommandHotel as RH, Arrange as AR, Hotel as H
WHERE AR.arrangeId = RH.arrangeId AND H.HID =
RH.HID AND AR.touristsId = $USERID;"
```

- Put the query result in JQuery functions and display in the calendar.

### 3.3 Function for Administrators:

## 1. Login Page:

- File: Login.php
- Operation:
  - Enter the administrator's ID and corresponding password to jump to administration page
  - Freely switch between Admin login mode and Tourist login mode
  - Admin account is pre-assigned in advance  
(ID:6 Password: 00000006;  
ID:7 Password:00000007;  
ID:8 Password:00000008;  
ID:9 Password:00000009)
- Implementation:compare the administrator ID and password visitor input with that in database. if correct, login successfully.  
SQL: select count(\*) as count from Administrator where AdmID = \$AdmID and Password = \$Password;

## 2. Search and manage user :

- File: deleteuser\_form.php; delete\_user.php  
edituser\_form.php; edit\_user.php
- Operation:  
User information is displayed on the interface  
Choose delete / edit / deactivate
  - delete: Input the id to delete the user
  - edit: Input the id and information you would like to revise
  - deactivate: set active/non-active of the users
- Implementation:
  1. delete
    - 1) Since TouristsID serves as many foreign key in other tables, we need to delete the tables who contains it as FK firstly.
    - 2) \$sel="SELECT \* FROM RecommandRes WHERE ArrangeId = '\$ArrangeId' ";
    - 3) use if(mysqli\_affected\_rows(\$link)>0) to check whether this table contains TouristsID (for every TouristsID has at least one ArrangeId) if so, delete it.  
"DELETE FROM RecommandAttraction WHERE ArrangeId = '\$ArrangeId'"
    - 4) after going through RecommandRes, RecommandHotel, RecommandAttraction,  
Arrange: "DELETE FROM Arrange WHERE TouristsID='\$TouristsID'"
    - 5) Message: "DELETE FROM Message WHERE TouristsID='\$TouristsID'".
    - 6) Tourists itself : "DELETE FROM Tourists WHERE TouristsID = '\$TouristsID'".
  2. Edit
    - 1) "UPDATE Tourists SET Username='\$Username', Age='\$Age', Gender =

- '\$Gender' , Email= '\$Email' WHERE TouristsID='\$TouristsID'"
- 2) use “mysqli\_affected\_rows(\$link)==0” to check whether there finds a record;
  3. Deactivate: If the leave day in plan is before the current date then set the plan as non-activate.  
sql=update Arrange SET Activate=1 WHERE Arrange.LeaveDay<\$date

### 3. Manage data: CRUD:

- File: addattr\_form.php; add\_attr.php; addres\_form.php; add\_res.php; addhotel\_form.php; add\_hotel.php; editattr\_form.php; edit\_attr.php; editres\_form.php; edit\_res.php; edithotel\_form.php; edit\_hotel.php; deleteattr\_form.php; delete\_attr.php; deleteres\_form.php; delete\_res.php; deletehotel\_form.php; delete\_hotel.php;
- Operation:
  1. You could first choose the bottom under Attraction, Hotel and Restaurant
  2. Add new data to database by filling in the a form
  3. Edit the existing data by filling in the a form
  4. Physically delete data by enter the ID
  5. View all the data by enter the keyword (“Search for data” bottom )
    - 1) choose a type you would like to see the data
    - 2) enter the keyword of the name to search
- Implementation:
  1. Add
    - 1) "insert into Attraction (AName,Area,Price) values ('\$AName', '\$Area', '\$Price' )";
    - 2) use \$AID = mysqli\_insert\_id(\$link) to store the autoID ;
    - 3) get the Attraction type id from another table using "select ATID from AttractionsType where Type='\$Type' ";
    - 4) "insert into Attractions\_Type (AID, ATID) values ('\$AID', '\$ATID')";
  2. Edit
    - 1) "UPDATE Attraction SET AName='\$AName', Area='\$Area', Price='\$Price' WHERE AID='\$AID'"
    - 2) use “mysqli\_affected\_rows(\$link)==0” to check whether there finds a record;
    - 3) use similar procedures to updated data in several tables.
  3. Delete
    - 1) "DELETE FROM Attractions\_Type WHERE AID='\$AID'" delete physically from the table where AID is a foreign key first.
    - 2) use “mysqli\_affected\_rows(\$link)==0” to check whether there finds a record;
    - 3) if so, "DELETE FROM Attraction WHERE AID='\$AID'" delete physically from the table where AID is a primary key.
  4. Search the information by using keyword
    - 1) “SELECT \* FROM Hotel WHERE HName LIKE '%\$name%’” and use “mysql\_affected\_rows(\$link)==0” to check whether there finds a record;
    - 2) use while(\$row = mysql\_fetch\_array(\$result)) to print the data in multiple tables whose procedure is similar to the add function.
    - 3) we need to consider the condition that one hotel have multiple room types, we could use \$count to record, if have more than 1 set, make the information

in front of them blank.

ID	name	area	level	roomtypeID	roomType	price
1	Tai Hing Hotel	Mong Kok	2	1	Single room	225.5
2	Mirador Hotel	Tsim Sha Tsui	2		Single room	400
3	Palazzo Holiday Hotel	Causeway Bay	2	3	Double room	265
4	Regal Oriental Hotel	Hung Hom	3	4	Single room	600
5	Harbour Plaza Metropolis	Hung Hom	4	5	Single room	700
6	Bridal Tea House Hotel	Homantin	3	6	Double room	450
9	Iclub Sheung Wan Hotel	Victoria Peak	3	9	Double room	1000.55
10	Rosedale Hotel	Causeway Bay	3	10	Single room	800.54
				13	Double room	850.99

#### 4. Summary of information:

- File: Admin.php
- Operation:  
Login as Administer and then he/she can view the data
  - 1)All the users
  - 2)Number of active users
  - 3)3 most active users
  - 4)Hot attraction/Hot hotel/Hot restaurant
- Implementation:
  - 1)SELECT count(DISTINCT TouristsID)as User FROM Tourists
  - 2)SELECT count(DISTINCT TouristsID)as AUser FROM Arrange where Activate=0
  - 3)SELECT Arrange.TouristsID as I,Username,count(ArrangeID) as c FROM Arrange join Tourists WHERE Arrange. TouristsID = Tourists. TouristsID GROUP BY Arrange.TouristsID order by c limit 3



## Admin ID: 6

Administration

Log out

## User

Delete

Edit

Deactivate

UserID	Username	Email	Name	Gender	Age
10001	DingDing	00000001@qq.com	00000001	M	23
10002	YuYu	00000002@qq.com	00000002	M	44
10003	GaoGao	00000003@qq.com	00000003	F	25
10004	DaiDai	00000004@qq.com	00000004	F	56

## Summary

## Total No of Users:

6

## No of Users Currently in HK:

6

## No of Users with Plans:

10001	Dashan	Times: 1
10005	QinQin	Times: 1
10002	YuYu	Times: 1

## Hot choices:

Attraction: Disneyland

Hotel: Tai Hing Hotel

Restaurant: Disney Restaurant

● Logout



## Part 4: Non-functional requirement:

### 4.1 Basic security issue:

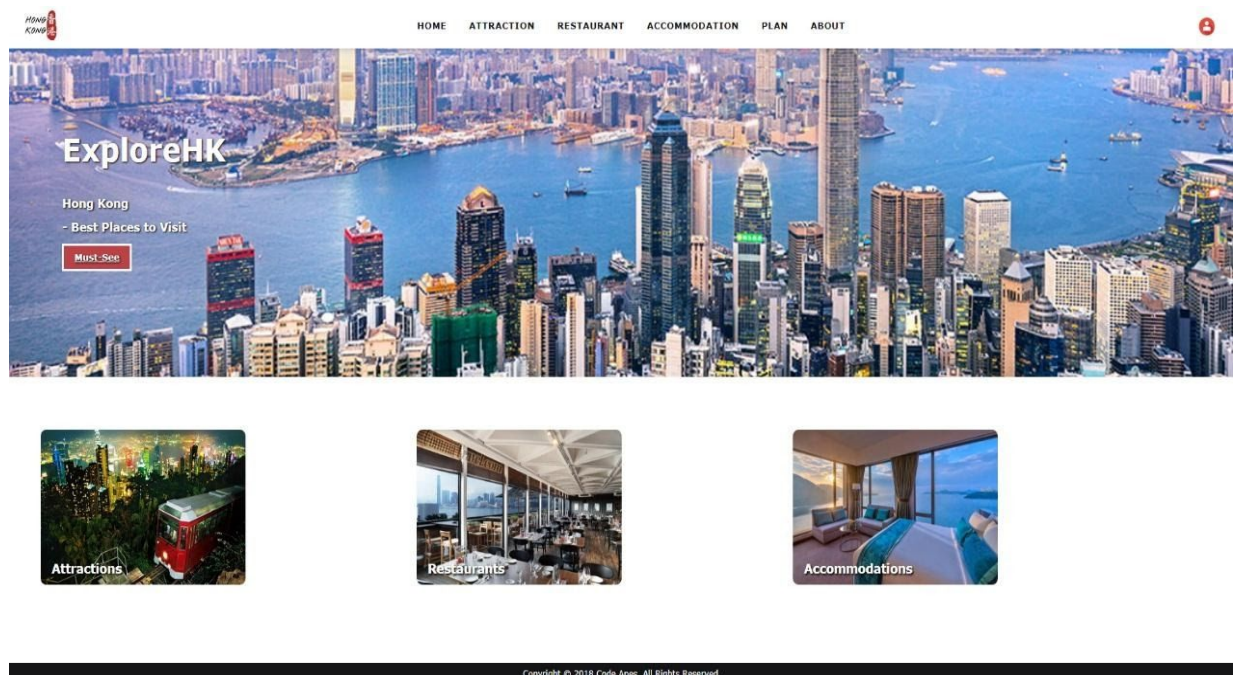
For tourists:

- Register:
  - 1) Ask tourists to input their password twice in case tourists have some spelling mistake;
  - 2) The user should input the correct format of email;
  - 3) The user cannot leave the text areas blank, otherwise they will not be able to submit the information;
- Login: only tourists with corresponding tourists ID and password can login
- Account Information: The user will not be able to get access to the Account Information page using url without logging in, and in that condition the page will automatically jump to login page.

For administrator:

- Login: only administrator with corresponding administrator ID and password can login and manage data
- Personal information of tourists: administrator can not view tourists password
- Administration: The user will not be able to get access to the Administration page using url without logging in, and in that condition the page will automatically jump to login page.

### 4.2 Website layout and design and Simple User Manual



- Navigation bar (topnav.php/topnav) Home -> welcome page  
Attraction -> attractions display page

Restaurant -> restaurants display page  
Accommodation -> accomodation display page  
Plan -> add a new plan page / login page  
About -> Developer information page  
Login(image) -> tourist/admin login page

- Search bar (topbaratt.php/topbarres.php/topbaracc.php)  
Search by keyword entering -> results display page  
Advanced search -> advanced search page
- Side bar:  
Refine/filter the item displaying
- main body
- footer indicating copyright (footer.php)

#### **4.3 Usability and feasibility**

##### **Database system:**

###### Usability:

- This database system can apply to various kinds of SQL and Oracle system
- Update data is convenient in SQL and Oracle system

###### Feasibility:

- In case of anomaly, this is an BCNF database system. So each table relatively independent. Update data is safety.

##### **Web page:**

###### Usability:

- Using HTML, PHP and CSS to set up the web pages is convenient to apply to other similar web page.
- PHP in this system can connect the data and web page from SQL and Oracle system.

###### Feasibility:

- Each web page is relatively independent, so it is safe to update web page.

**Part 5: Future development:**

- Provide more type of choice, like ticket.
- Book restaurant, ticket or hotel online.
- Recommend the most famous attraction, restaurant and accommodation.
- Provide comment zone.
- Discussion zone for tourists to publish their traveling dairy.

**Part 6: Reference:**

1. <https://fullcalendar.io/>

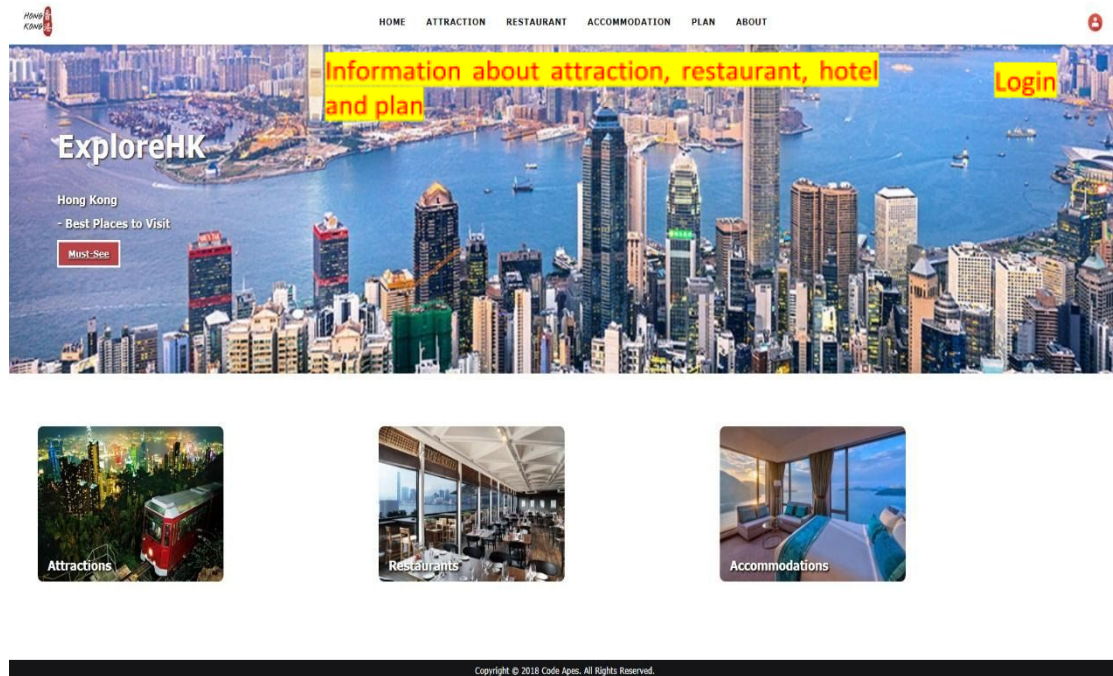
## Appendix:

Attachment: ERD diagram; source code; database script

## Appendix Part 1: Simple User Manual

- Chrome is recommended to open web pages

*Step 1: Open Explore HK Welcome page:*



*As for visitor: Jump to Step 6*

*As for new user: go to Step 2*

*As for user: go to Step 3*

*As for administrator: juup to Step 11*

*Step 2: Register for tourists*

**Create Your Account**

[Already a member?](#)

Email  
Your email..

Full Name (e.g. Chan Talman)  
Your fullname..

Gender  
--Please choose--

Age  
--Please choose--

Username  
Your username..

Password  
Your password..

Confirm Your Password  
Confirm Your password..

Confirm

Register by email, full name, age, gender, username and password

Input password twice

### Step 3: Login for tourists

Login page for tourists:

**Login as Tourist**

[For Admin](#)

[Register Now!](#)

User ID  
Your username..

Password  
Your password..

Confirm

Login for admin

Register for tourists

Login by tourists ID and password

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### Step 4: check tourists personal information and read message

Personal  
AccountPersonal  
Information

Read News

## Account Information

User ID: 10001

Username: DingDing

Edit

Email: 00000001@qq.com

Edit

Full name: 00000001

Edit

Gender: M

Edit

Age: 23

Edit

My Plan [\(Click here to view and edit\)](#)

Log out

click “Read News” to see message:

Log out

## Notice Board

You have successfully added to your plan. ON 2018-12-05 17:09:58

*Step 5: edit tourists personal information and click “confirm” to save*

Username:

DingDing

Confirm

*Step 6: viewing all attraction, hotel and restaurant or search by keyword and advanced search*

Attraction

All

By Theme▼

By Region▼

Search by theme or region

## ALL ATTRACTIONS

Add Attractions To Plan



Disneyland

Region: Disneyland



Ocean Park

Region: Ocean Park



Sky Wheel

Region: Causeway Bay



Victoria Peak

Region: Victoria Peak



Wax Work Museum

Region: Victoria Peak



The Star Ferry

Region: Tsim Sha Tsui

Search and advanced search

Click “Advanced Search” at right top corner:

## Advanced Search

Type	<input type="text" value="--Please choose--"/>
Name	<input type="text" value="keyword..."/>
Region	<input type="checkbox"/> Hung Hom <input type="checkbox"/> Disneyland <input type="checkbox"/> Mong Kok <input type="checkbox"/> Ocean Park <input type="checkbox"/> Tsim Sha Tsui <input type="checkbox"/> Victoria Peak <input type="checkbox"/> Homantin
Price Range	<input type="checkbox"/> 0~300 <input type="checkbox"/> 300~600 <input type="checkbox"/> 600~900 <input type="checkbox"/> >1000
<input type="button" value="Search"/>	


*input keyword in search bar and click “search”:*

Disney	Search	Advanced Search
--------	--------	-----------------

---

### ALL ATTRACTIONS

---



**Disneyland**  
Region: Disneyland

**Add Attractions to Your Plan**

Date:

Time:

Attraction Name:



*Step 7: Add attraction, hotel and restaurant to your plan: visitor can not add to plan*

## Add Attractions to Your Plan

Date:

Time:

Attraction Name:

input or select date  
from calendar

Add

## Add Attractions to Your Plan

Date:

Time:

Attraction Name:

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Add

## Add Attractions to Your Plan

Date:

Time:

Attraction Name:

Add

## Add Attractions to Your Plan

Date:

Time: Morning ✓ Afternoon

Attraction Name: --Disneyland--

Add

## Add Attractions to Your Plan

Date:

Time: Afternoon

Attraction Name ✓ --Disneyland--

- Ocean Park--
- Sky Wheel--
- Victoria Peak--
- Wax Work Museum--
- The Star Ferry--
- Langham Place--
- Hong Kong Polyu--
- Victoria Harbour--
- Harbor City--

Add

**Step 8: View your plan: click “PLAN” button**

**click “Add New Plan” select arrival and departure date to set up a new plan**

**Plan**

**Add New Plan**

**My Plan**

Arrival Date: 年/月/日

Departure Date: 年/月/日

Add

Click “My Plan” to show your plan:  
By month:

### Plan Schedule

December 2018						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
25 9a Victoria Peak 12p AGanShrim +3 more	26 9a The Star Ferr 12p Steam Fres +3 more	27 9a Hong Kong P 12p Tuxedos Re +3 more	28	29	30	1
2	3	4	5 9a Disneyland	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

By week:

## Plan Schedule

<div> <div>&lt;</div> <div>&gt;</div> <div>today</div> </div>		Nov 25 – Dec 1, 2018						<div> <div>month</div> <div>week</div> <div>day</div> <div>list</div> </div>	
	Sun 11/25	Mon 11/26	Tue 11/27	Wed 11/28	Thu 11/29	Fri 11/30	Sat 12/1		
all-day									
6am									▲
7am									
8am									
9am	9:00 - 12:0 Victoria Peak	9:00 - 12:0 The Star Ferry	9:00 - 12:0 Hong Kong Polyu						
10am									
11am									
12pm	12:00 - 2:0 AGanShrim	12:00 - 2:0 Steam Fresh	12:00 - 2:0 Tuxedos Resturant						
1pm									▼

***By day:***

# Plan Schedule

< >

today

November 25, 2018

month week day list

	Sunday	
all-day		
6am		▲
7am		
8am		
9am	9:00 - 12:00 Victoria Peak	
10am		
11am		
12pm	12:00 - 2:00 AGanShrimp	
1pm		▼

*By list:*

# Plan Schedule

<	>	today	Nov 25 – Dec 1, 2018	month	week	day	list
Sunday			November 25, 2018				
9:00am - 12:00pm			● Victoria Peak				
12:00pm - 2:00pm			● AGanShrimp				
2:00pm - 6:00pm			● Wax Work Museum				
6:00pm - 8:00pm			● Kum Kee Restaurant				
10:00pm - 11:59pm			● Tai Hing Hotel				
Monday			November 26, 2018				
9:00am - 12:00pm			● The Star Ferry				
12:00pm - 2:00pm			● Steam Fresh				
2:00pm - 6:00pm			● Langham Place				
6:00pm - 8:00pm			● Ajisen Ramen				

## Step 9: view introduction of company click “ABOUT”

HOME   ATTRACTION   RESTAURANT   ACCOMMODATION   PLAN   ABOUT



### Code Apes

#### About Us

Code Apes is a non-profit body tasked to market and promote Hong Kong as a travel destination worldwide and to enhance visitors' experience once they arrive.

#### Our Goal

Our goal is to open a door for users to explore Hong Kong. It introduces some basic information including hotels, popular tourist attractions, famous local restaurants and so on. Users can freely add items in their plan and then plan their trip ahead.

#### Use Guidelines

##### Term of Use:

You must comply with relevant laws and regulations of applicable laws when using CodeApes.com services and shall agree not to use the services for any illegal or improper activities, including but not limited to the following:

1. Information that goes against basic principles set forth in the Constitution;
2. Information that endangers national security, leaks state secrets, subverts state power and undermines national unity;
3. Information that damages the honor and interest of the country;
4. Information that instigates ethnic hatred, ethnic discrimination and undermines ethnic solidarity;
5. Information that undermines the country's religious policies and promotes cults and feudal superstitions;
6. Information that spreads rumor, disrupts social order and undermines social stability;

## Step 10: logout

Log out

### Step 11: Login for administrator:

HONG KONG

HOME ATTRACTION RESTAURANT ACCOMMODATION PLAN ABOUT

Log in as Administrator

For Tourist

UserID

Your username... Login for admin by administrator ID and password

Password

Your password...

Confirm

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### Show summary, users' information and data in this page:

Administration | ExploreHK

← → ↺ 不安全 | www2.comp.polyu.edu.hk/~16098537d/ExploreHK/Admin.php

HONG KONG

HOME ATTRACTION RESTAURANT ACCOMMODATION PLAN ABOUT

Admin ID: 6

Administration

Log out

### User

UserID	Username	Email	Name	Gender	Age
10001	DingDing	00000001@qq.com	00000001	M	23
10002	YuYu	00000002@qq.com	00000002	M	44
10003	GaoGao	00000003@qq.com	00000003	F	25
10004	DaiDai	00000004@qq.com	00000004	F	56

## Edit User Information

ID	<input type="text" value="Tourists's ID.."/>
Name	<input type="text" value="Username.."/>
Age	<input type="text" value="User's age.."/>
E-mail	<input type="text" value="User's email.."/>
Gender	<input type="button" value="Female"/>
<input type="button" value="Submit"/>	

## Delete user information

ID	<input type="text" value="Tourist's ID.."/>
<input type="button" value="Submit"/>	

Administration | ExploreHK

www2.comp.polyu.edu.hk/~16098537d/ExploreHK/Admin.php

HOME   ATTRACTION   RESTAURANT   ACCOMMODATION   PLAN   ABOUT

Admin ID: 6

Administration

Log out

User

Delete

Edit

Deactivate

UserID	Username	Email	Name	Gender	Age
10001	DingDing	00000001@qq.com	00000001	M	23
10002	YuYu	00000002@qq.com	00000002	M	44
10003	GaoGao	00000003@qq.com	00000003	F	25
10004	DaiDai	00000004@qq.com	00000004	F	56



### Summary

#### Total No of Users:

6

#### No of Users Currently in HK:

6

#### No of Users with Plans:

10001                      Dashan                      Times: 1

10005                      QinQin                      Times: 1

10002                      YuYu                      Times: 1

### Hot choices:

Attraction: Disneyland

Hotel: Tai Hing Hotel

Restaurant: Disney Restaurant

### *Admin manage other data:*

#### Data ([Search for data](#))

##### Attraction([Click here for reference](#))

Add

Edit

Delete

##### Restaurant([Click here for reference](#))

Add

Edit

Delete

##### Accommodation([Click here for reference](#))

Add

Edit

Delete

### *Add data:*

### Add Attraction information

Name	<input type="text" value="attraction's name.."/>
Region	<div>--Please choose--</div>
Please choose a region.	
Attraction	<div>--Please choose--</div>
Type	Please choose a type.
Price HK\$	<input type="text" value="0"/>
<div>Submit</div>	

Edit data:

### edit Attraction information

ID	<input type="text" value="Attraction's ID.."/>
Name	<input type="text" value="attraction's name.."/>
Region	<div>--Please choose--</div>
Please choose a region.	
Attraction	<div>--Please choose--</div>
Type	Please choose a type.
Price HK\$	<input type="text" value="0"/>
<div>Submit</div>	

Delete data:

### delete Attraction information

ID	<input type="text" value="Attraction's ID.."/>
<div>Submit</div>	

## Appendix Part 2: Contribution of Team members

17082316d	Ding Dashan	Team Leader + frontend html + backend php
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16098537d	Yu Jing	frontend html + backend php
17081973d	Dai Yimin	backend php + database design
17083686d	Xia Jialu	backend php + database design
17081996d	Gao Haorui	backend php + database design
17082705d	Qin Yaxue	frontend html + backend php

### Appendix Part 3: Checklist

- Support tourists and administrator to login
- Support tourists to register
- Search by keyword
- Advanced search by selecting parameters
- Sort out the data after searching
- After tourists login:
  - read/edit/update their personal information
  - read message and news
  - read and search travel plan history
  - view travel plan
  - Search the data and add them to his plan
- After administrator login:
  - Edit/delete/update tourists account
  - Summary information of tourists and other data
  - Add/edit/insert/delete data

### Appendix Part 4: URL

<http://www2.comp.polyu.edu.hk/~16098537d/ExploreHK/>

### Appendix Part 5: Installation guide

1. Open Google Chrome Browser
2. Run following link (install.php) to install all tables in our database:  
(username: 16098537d, password: "iqdobdiy")

<http://www2.comp.polyu.edu.hk/~16098537d/ExploreHK/php/install.php>

3. Open the welcome page:

<http://www2.comp.polyu.edu.hk/~16098537d/ExploreHK/>

