

User Manual
COMP 2411
Group 9
Banquet Management System BMS
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Introduction

The banquet management system (BMS) is a central application that stores and handles the entire banquet booking system. Serving as a central database, the BMS efficiently manages banquet logistics, attendee information, and registration details, ensuring a seamless experience for both administrators and attendees.

In the system, users will have the choice of entering the system as an administrator or an attendee. Each role comes with specific permissions and functionalities tailored to meet their needs. Being an administrator, users would have the rights to create a new banquet, update any existing banquet information, update attendees information and generate analytical reports. Being an attendee, users would have the rights to register banquets, update registered banquets information and update their profile.

Instructions

System:

When first activating the system, message “Connected to the database” is displayed, indicating that the system has automatically connected to the database successfully. On the system main page, the welcome message “Welcome to the Banquet System!” is displayed. Under the message, there are three functions provided for users to choose. The following are the detailed instructions as guidelines.

```
Connected to the database.
Welcome to the Banquet System!
Enter '1' to register or '2' to log in or '3' to exit the system:
1. Register
2. Login
3. Exit
```

1. Register

This function allows the user to create a new account. Users need to input FirstName, LastName, Address, AttendeeType, Email, Password, UserType, MobileNumber, AffiliatedOrganization correspondingly for registration. Format checking will be done by the system. Users may follow the error message and suggestion to input again when there is invalid input. Message “User registered successfully! Welcome to the system.” is displayed indicating the registration is successful.

```
Enter '1' to register or '2' to log in or '3' to exit the system:
1. Register
2. Login
3. Exit
1
Enter your first name: DBMS
Enter your last name: bms
Enter your address: oracle
Enter attendee type (staff, student, alumni, guest, not available): student
Enter your email: student@gmail.com
Enter your password: 1234
Enter user type (Attendee, Administrator): Attendee
Enter your mobile number (8 digits): 12345678
Enter your affiliated organization (PolyU, SPEED, HKCC, Others, not available): PolyU
User registered successfully! Welcome to the system.
```

2. Log in

This function allows users with a successfully registered account to log in. User needs to input Email and password correspondingly. Message "Login successful! Welcome to the system." is displayed indicating that the user logged into the account of that email address. Message ""Invalid email or password. Please try again." is displayed indicating that the user account is not found. The page will be redirected to the main page. Users may choose to register an account or log in again.

```
Connected to the database.
Welcome to the Banquet System!
Enter '1' to register or '2' to log in or '3' to exit the system:
1. Register
2. Login
3. Exit
2
Enter your email: student@gmail.com
Enter your password: 1234
Login successful! Welcome to the system.
```

3. Exit

This function allows the user to stop the execution of the system. Message "Database connection closed." is displayed indicating the system stopped executing.

```
Connected to the database.
Welcome to the Banquet System!
Enter '1' to register or '2' to log in or '3' to exit the system:
1. Register
2. Login
3. Exit
3
Exiting...
```

Administrator:

Once a user has successfully logged in or registered as an administrator, messages as below will be printed to indicate the success of entering the entire system.

```
Login successful! Welcome to the system.  
Welcome to Banquet Management System.  
You can now choose to perform the following actions.  
Please type the number [  
[1] Create a new banquet.  
[2] Update the banquet.  
[3] Input meals.  
[4] Get attendee information.  
[5] Update attendee registration data.  
[6] View analysis report.  
[7] Quit.
```

The administrator would have to enter the number in the bracket [] to run the commands. Specific explanations of commands would be explained as below in the ascending order.

1. Create a new banquet

Upon the administrator inputs [1] as the command, the system will prompt the administrator to the following details one after another. Banquet name, date and time available for the event, address and location of the event, first name and last name of the main contact person to indicate the owner of the banquets, availability of the banquet as well as the quota of the particular banquet. Upon receiving all details, the system will save the details in the database as a record.

```
Welcome to Banquet Management System.
You can now choose to perform the following actions.
Please type the number []
[1] Create a new banquet.
[2] Update the banquet.
[3] Input meals.
[4] Get attendee information.
[5] Update attendee registration data.
[6] View analysis report.
[7] Quit.
1
Table 'Banquet' already exists.
Enter banquet name:
123
Enter Date (YYYY-MM-DD): 2024-11-29
Enter Time (HH:MM): 18:54
Enter address:
hh
Enter location:
hk
Enter first name:
tt
Enter last name:
uu
Is the banquet available? (1 for true, 0 for false): 1
Enter Quota: 4
Banquet created successfully!
```

2. Update the banquet

Upon the administrator inputs [2] as the command, the system will prompt the administrator to choose which details of the banquets are required to be updated. Administrator would have to choose with the number according to, [1] Date of banquet, [2] Time of banquet, [3], Address of the banquet, [4] Location of the banquet, [5] First Name of contact person, [6] Last Name of the contact person, [7] Availability of the banquet, [8] quota of the banquet. When the administrator received the message “Banquet updated successfully.”, it means the database has been updated with the new information.

```
Please type the number []
[1] Create a new banquet.
[2] Update the banquet.
[3] Input meals.
[4] Get attendee information.
[5] Update attendee registration data.
[6] View analysis report.
[7] Quit.
2
Enter Banquet Name:
123
Please choose what you want to update. Enter the number.
[1] Date
[2] Time
[3] Address
[4] Location
[5] First Name
[6] Last Name
[7] Availability
[8] Quota
1
Enter new value for date1:
2024-11-30
Banquet updated successfully.
```

3. Input meals

Administrator could input 4 types of meals in each table. The system will ask for the exact table that the administrator wants to update by entering the banquet name. Administrators would have to input the dish name, price, special cuisine and BIN number for extra confirmation for 4 times, each time starting with entering a different meal type (fish, chicken, beef and vegetarian).

```
Please type the number []
[1] Create a new banquet.
[2] Update the banquet.
[3] Input meals.
[4] Get attendee information.
[5] Update attendee registration data.
[6] View analysis report.
[7] Quit.
3
Table 'Meal' already exists.
Enter Banquet Name:
123
Enter details for Meal 1
Generated mealID: 3Meal_ID1
Enter meal type (Fish, Chicken, Beef, Vegetarian):
Fish
Enter dish name:
Steamed fish
Enter meal price:
56
Enter today's special cuisine:
smoked salmon
Enter your BIN number for confirmation.
3
```

4. Get attendee information.

Upon the administrator inputs [4] as the command to check the attendees details, the system would prompt the administrator to input the email address of the particular attendee. After inputting the correct email address, the system will print the details of the attendee as the following. First name, last name, address, type of attendee, mobile number and affiliated organization. The message “Attendee found.” is to indicate the end of the details of attendees printed and act as a confirmation message to indicate that the attendee has been found successfully with the given email address.

```
Welcome to Banquet Management System.
You can now choose to perform the following actions.
Please type the number []
[1] Create a new banquet.
[2] Update the banquet.
[3] Input meals.
[4] Get attendee information.
[5] Update attendee registration data.
[6] View analysis report.
[7] Quit.
4
Enter Attendee's email address to get his/her information.
Pencil@gmail.com

First Name: Penn
Last Name: cil
Address: yyyy
AttendeeType: staff
Mobile Number: 12345678
Affiliated Organization: HKCC
Attendee found.
```


5. Update attendee registration data.

The administrator is allowed to update attendee's registration data (ie. Drink and the seat preference of the attendee). Administrator would have to input the particular attendee email address and choice would be given accordingly. Administrator would input the number in the brackets[] and directly input the updated information. The system would then gather the information and update the database.

```
Login successful! Welcome to the system.
Welcome to Banquet Management System.
You can now choose to perform the following actions.
Please type the number [ ]
[1] Create a new banquet.
[2] Update the banquet.
[3] Input meals.
[4] Get attendee information.
[5] Update attendee registration data.
[6] View analysis report.
[7] Quit.
5
Enter Attendee's email address to update his/her information.
attendee@gmail.com
Please choose what you want to update. Enter the number.
[1] Drink
[2] Seat Preference.
1
Enter new value for drink:
apple
Attendee information updated successfully.
```

6. View analysis report.

The administrator is allowed to view the analysis report by entering the command [6]. After entering the command, the message “Banquet Management Report Type” will be displayed and the administrator can decide to view different kinds of analysis reports. After the report is generated, the BMS system will ask the administrator whether to save the report in their local file system.

7. Quit.

After completing all necessary updates in the system, the administrator could choose to quit the system with the command[7].

```
Please type the number []
[1] Create a new banquet.
[2] Update the banquet.
[3] Input meals.
[4] Get attendee information.
[5] Update attendee registration data.
[6] View analysis report.
[7] Quit.
7
Thank you for your visiting.

Process finished with exit code 0
```

Attendee:

On the attendee main menu, the welcome message “Welcome to Banquet Management System” is displayed in the middle of the page, indicating that the attendee has successfully logged in to the BMS. Under the welcome message, a number of functions are provided for attendees. Users only need to enter the corresponding symbol to realize the relevant function. The following are more detailed instructions to guide users in their smooth use.

```
----- Welcome to Banquet Management System -----
```

- [1] View Banquet Information
- [2] Register Banquet
- [3] List Registered Banquet
- [4] Update Registered Banquet Information
- [5] Search Banquet
- [6] View Profile
- [7] Update Profile
- [8] Log Out

Please enter your choice:

1. View Banquet Information (Option 1)

This function allows users to switch to another page and the message “Banquet Information” will be displayed in the middle of the page if the page is successfully switched. Under this information, there will be two functions, “Register Banquet” and “Back”. Also under these two functions, all the available banquet information is displayed in the page, which includes banquet name, banquet time, banquet location and so on. Users only need to enter the corresponding symbol “1” if they want to implement these relevant functions.

```
----- Welcome to Banquet Management System -----

[1] View Banquet Information
[2] Register Banquet
[3] List Registered Banquet
[4] Update Registered Banquet Information
[5] Search Banquet
[6] View Profile
[7] Update Profile
[8] Log Out

Please enter your choice: 1
Available Banquet Information:
```

BinNum	Banquet Name	Date	Time	Address	Location	First Name	Last Name	Availability	Quota
1	123	6666-77-88	3456	rr	yyy	ggg	r	1	3

2. Register Banquet (Option 2)

Allows users to register a banquet after entering the command “2” in the main menu. After successful input, users can view all the banquet information and enter the banquet name that they prefer to participate in. After entering the banquet name, users need to input their meal selection, drink selection and seat preference in turn.

```
Enter your email: pencil@gmail.com
Enter your password: 1234
Login successful! Welcome to the system.
```

```
----- Welcome to Banquet Management System -----
```

```
[1] View Banquet Information
[2] Register Banquet
[3] List Registered Banquet
[4] Update Registered Banquet Information
[5] Search Banquet
[6] View Profile
[7] Update Profile
[8] Log Out
```

```
Please enter your choice: 2
```

```
Please register according to the availability. (1=open for registration || 0=full)
```

```
Available Banquet Information:
```

BinNum	Banquet Name	Date	Time	Address
--------	--------------	------	------	---------

2	222	9393-66-77	33:55	ee
1	123	6666-77-88	3456	rr

```
Select a banquet by BinNum to register: 1
```

```
Meals available for banquet ID: 1
```

```
Meal ID: 123mealID1
```

```
Type: fish
```

```
Dish Name: d
```

```
Price: $5
```

```
Special Cuisine: wer
```

```
-----
Meal ID: 123mealID2
```

```
Type: f
```

```
Dish Name: t
```

```
Price: $7
```

```
Special Cuisine: r
```

```
-----
Meal ID: 123mealID3
```

```
Type: t
```

```
Dish Name: t
```

```
Price: $8
```

```
Special Cuisine: r
```

```
-----
Meal ID: 123mealID4
```

```
Type: r
```

```
Dish Name: t
```

```
Price: $6
```

```
Special Cuisine: e
```

```
-----
Choose your meal (Please enter respective mealID): 123mealID4
```

```
Enter your drink choice: water
```

```
Enter your seating preference: 1
```

```
Registration successful!
```

3. List Registered Banquet (Option 3)

Print out a list of all banquets registered by the user, along with specific information, for example, banquet name, meal type, drink choice and so on. This function allows users to view their registration records by entering the number 3, avoiding users forgetting the registered banquets detailed information.

```
Enter your email: attendee@gmail.com
Enter your password: 1234
Login successful! Welcome to the system.

----- Welcome to Banquet Management System -----

[1] View Banquet Information
[2] Register Banquet
[3] List Registered Banquet
[4] Update Registered Banquet Information
[5] Search Banquet
[6] View Profile
[7] Update Profile
[8] Log Out

Please enter your choice: 3
All the registered banquets.

List of banquets registered:
Banquet 1
Banquet Identification Number (BIN): 1
Banquet Name: 123
Meal Type: fish
Drink Preference: water
Seat Preference: 1
```

4. Update Registered Banquet Information (Option 4)

Allows users to update their registered banquet information, for example, users can update their meal selection or drink selection, ensuring users have an enjoyable banquet experience. The BMS system will show the message to indicate users when the update is successful. If users finish updating, they can enter command “4” and the BMS system will display the updated banquet information. If users want to return to the attendee main menu, they just need to enter “-1”.

```
----- Welcome to Banquet Management System -----

[1] View Banquet Information
[2] Register Banquet
[3] List Registered Banquet
[4] Update Registered Banquet Information
[5] Search Banquet
[6] View Profile
[7] Update Profile
[8] Log Out

Please enter your choice: 4
List of banquets registered:
Banquet 1
Banquet Identification Number (BIN): 1
Banquet Name: 123
Meal Type: fish
Drink Preference: water
Seat Preference: 1

Enter the BIN of the banquet you want to update (or -1 to go back): 1
Select the banquet detail you want to update:
1. Meal Type
2. Drink
3. Seat Preference
4. Finish updating banquet details
2
Enter new Drink Choice: cocacola
drink is updated successfully!
Select the banquet detail you want to update:
1. Meal Type
2. Drink
3. Seat Preference
4. Finish updating banquet details
```


Select the banquet detail you want to update:

1. Meal Type
2. Drink
3. Seat Preference
4. Finish updating banquet details

4

Updated Registration Details:

Updated Registration Details for Banquet (BIN: 1:

Banquet Name: 123

Meal Type: fish

Drink Preference: cocacola

Seat Preference: 1

List of banquets registered:

Banquet 1

Banquet Identification Number (BIN): 1

Banquet Name: 123

Meal Type: fish

Drink Preference: cocacola

Seat Preference: 1

Enter the BIN of the banquet you want to update (or -1 to go back): -1

Exiting update banquet registration process.

----- Welcome to Banquet Management System -----

- [1] View Banquet Information
- [2] Register Banquet
- [3] List Registered Banquet
- [4] Update Registered Banquet Information
- [5] Search Banquet
- [6] View Profile
- [7] Update Profile
- [8] Log Out

Please enter your choice:

5. Search Banquet (Option 5)

Attendees can search their registered banquets by keywords. There are seven formats of keywords that can be input by users (attendees): substring of banquet name, BIN, date (YYYY-MM-DD), time(HH-MM), location, first name or last name of contact staff. Once a keyword with the above format is inputted, the matching results will be shown. Each matching result will display the BIN, name, date, time, location, address and name of contact staff of the banquet.

```
----- Welcome to Banquet Management System -----
```

```
[1] View Banquet Information
[2] Register Banquet
[3] List Registered Banquet
[4] Update Registered Banquet Information
[5] Search Banquet
[6] View Profile
[7] Update Profile
[8] Log Out
```

```
Please enter your choice: 5
```

```
Enter keyword to search
```

```
(can be substring of banquet name, BinNum, date(YYYY-MM-DD), time(HH-MM), location, first name or last name of contact staff)
```

```
> ban
```

```
Matching banquets:
```

```
Matching result 1:
```

```
BIN: 3
```

```
Banquet Name: banquet
```

```
Date: 2024-11-30
```

```
Time: 21:52
```

```
Location: HK
```

```
Address: PolyU
```

```
Contact Staff: BMS DBMS
```

6. View Profile (Option 6)

Once attendees successfully log in to the BMS system, they have the right to view their personal data. By entering a simple command “6”, the user’s profile will be displayed, which ensures users can always view their own personal data if they forget their personal data. Users can decide whether to update the existing personal data based on the actual situation.

```
Enter your email: attendee@gmail.com
```

```
Enter your password: 1234
```

```
Login successful! Welcome to the system.
```

```
----- Welcome to Banquet Management System -----
```

```
[1] View Banquet Information
```

```
[2] Register Banquet
```

```
[3] List Registered Banquet
```

```
[4] Update Registered Banquet Information
```

```
[5] Search Banquet
```

```
[6] View Profile
```

```
[7] Update Profile
```

```
[8] Log Out
```

```
Please enter your choice: 6
```

```
Individual Profile
```

```
First Name: A
```

```
Last Name: BC
```

```
Address: ABCD
```

```
Attendee Type: student
```

```
Email: attendee@gmail.com
```

```
Mobile Number: 12345678
```

```
Affiliated Organization: PolyU
```

7. Update Profile (Option 7)

Users can update their profile by entering command “7” if there are any changes to the profile. After entering the command “7” in the main menu, the BMS system will list a bunch of specific data update functions with corresponding symbols. Users can input corresponding commands to the system according to their actual needs. Once the user successfully enters the correct command to the system, they can enter the updated data to the system. Press the enter key after the data is entered, the system will read the data and update their profile. The BMS system will keep showing the update information page for the users after listing the updated profile. If users do not have any other information that needs to change, entering the command “9” can return to the attendee main menu after displaying users’ updated profile.

```
----- Welcome to Banquet Management System -----  
  
[1] View Banquet Information  
[2] Register Banquet  
[3] List Registered Banquet  
[4] Update Registered Banquet Information  
[5] Search Banquet  
[6] View Profile  
[7] Update Profile  
[8] Log Out  
  
Please enter your choice: 7  
  
Select the item you want to update:  
[1] First Name  
[2] Last Name  
[3] Address  
[4] Attendee Type (e.g. staff, student, alumni, guest)  
[5] E-mail Address  
[6] Password  
[7] Mobile Number  
[8] Affiliated Organization (e.g. PolyU, SPEED, HKCC, Others)  
[9] Finish updating  
3
```

Enter new Address: *hk*
Address is updated successfully!
Updated Profile:
First Name: A
Last Name: BC
Address: hk
Attendee Type: student
Email: attendee@gmail.com
Mobile Number: 12345678
Affiliated Organization: PolyU

Select the item you want to update:
[1] First Name
[2] Last Name
[3] Address
[4] Attendee Type (e.g. staff, student, alumni, guest)
[5] E-mail Address
[6] Password
[7] Mobile Number
[8] Affiliated Organization (e.g. PolyU, SPEED, HKCC, Others)
[9] Finish updating
9

Updated Profile:
First Name: A
Last Name: BC
Address: hk
Attendee Type: student
Email: attendee@gmail.com
Mobile Number: 12345678
Affiliated Organization: PolyU

8. Log Out (Option 8)

Allows users to log out of their personal accounts from the BMS system by entering the command “8”.

```
----- Welcome to Banquet Management System -----  
  
[1] View Banquet Information  
[2] Register Banquet  
[3] List Registered Banquet  
[4] Update Registered Banquet Information  
[5] Search Banquet  
[6] View Profile  
[7] Update Profile  
[8] Log Out  
  
Please enter your choice: 8  
Thank you for your visiting.  
  
Process finished with exit code 0
```

Troubleshooting

1. Invalid user input

The BMS system cannot detect the command correctly if users enter incorrect commands when they choose the corresponding symbol of the functions or enter the information. Once users enter incorrect commands to the BMS system, users are allowed to re-enter the correct command and the BMS system can run smoothly.

2. Database Connection Issues

Banquet Management System relies on a database. Users need to check the connection parameters and database status. Connection errors may lead to issues in retrieving or storing data.

Additional Resources

For any specific issues related to the Banquet Management System, you can connect our technical support team. The information of technical support team is:

23077427d@connect.polyu.hk

23087921d@connect.polyu.hk

23100722d@connect.polyu.hk

23074229d@connect.polyu.hk

