



2411 Project

Banquet Management System

Parts

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1.Introduction

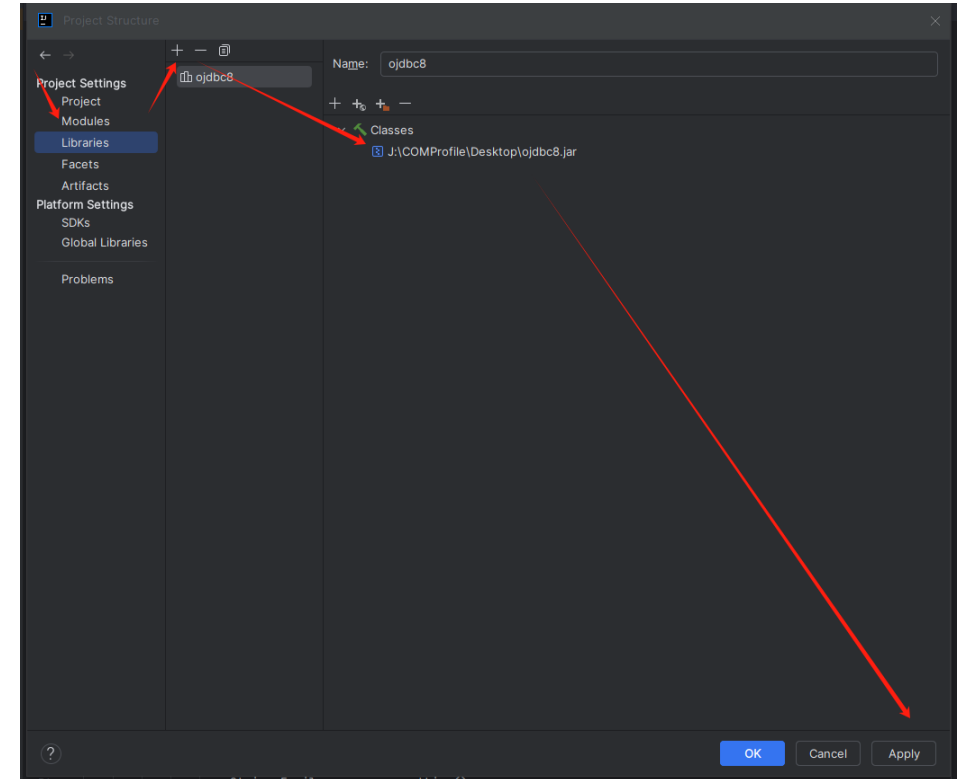
- BMS is a database application designed to streamline the management of banquet events.
- Target user: Administrator and attendees

2. Running

- on **IntelliJ** in the COMP Lab's computers.

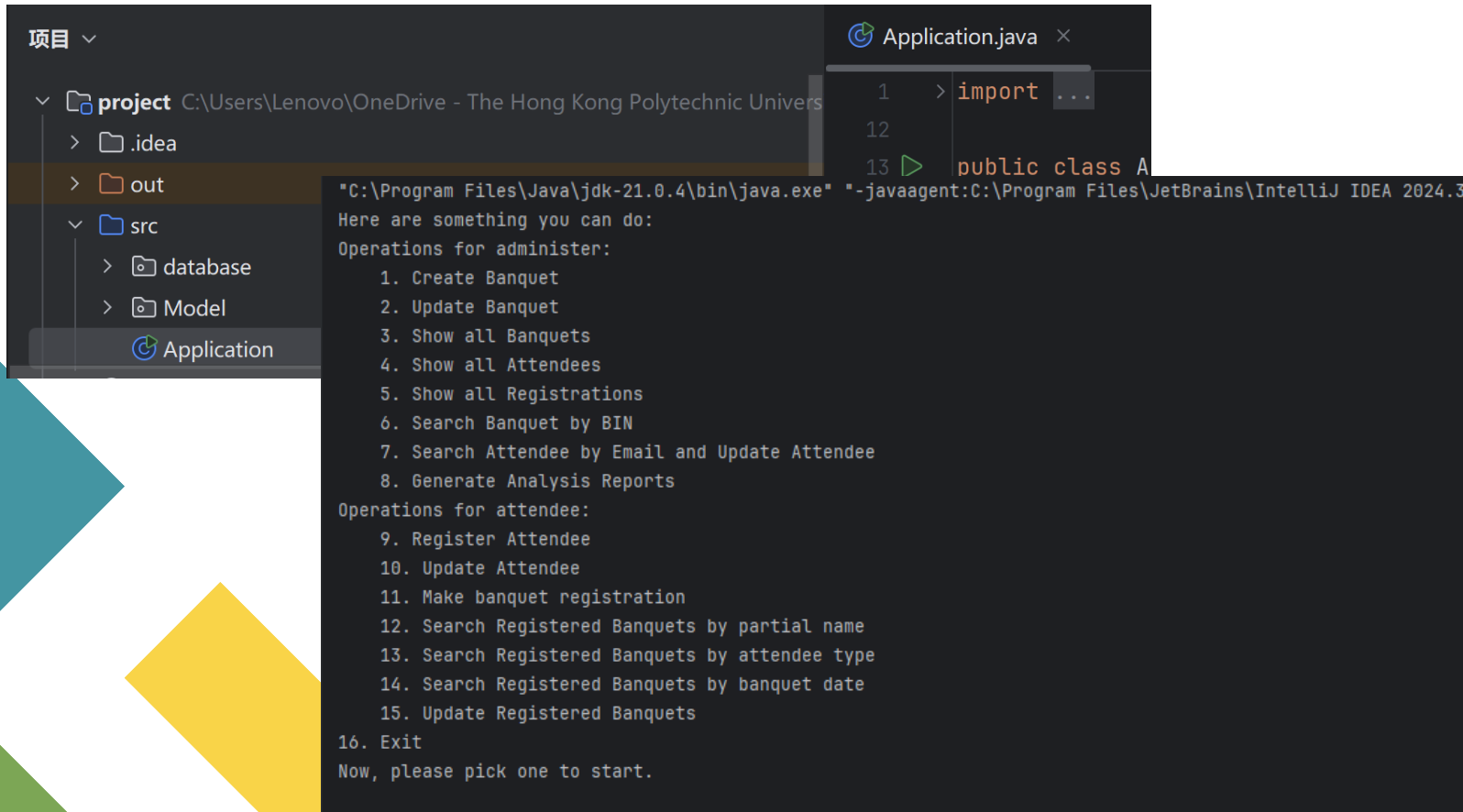
3.Set up

- Before starting, put the **ojdbc8.jar** in the libraries and apply it.
- File/Project -Structure/Libraries ->Add class “ojdbc8.jar” ->Apply



4.1 Welcome page

run the **Application.java** to start the program.



The screenshot shows the IntelliJ IDEA interface. On the left, the 'Project' view displays the file structure: 'project' (C:\Users\Lenovo\OneDrive - The Hong Kong Polytechnic University) containing '.idea', 'out', 'src' (with 'database' and 'Model' subfolders), and 'Application'. The 'Application' file is selected. The main editor shows 'Application.java' with the following code:

```
1 > import ...
12
13 public class A
```

The bottom pane shows the output of running the program, with the command: `"C:\Program Files\Java\jdk-21.0.4\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.3\lib\idea_rt.jar=1273.2024.3:C:\Program Files\Java\jdk-21.0.4\bin\java.exe" -Dfile.encoding=UTF-8`. The output text is:

```
Here are something you can do:
Operations for administer:
1. Create Banquet
2. Update Banquet
3. Show all Banquets
4. Show all Attendees
5. Show all Registrations
6. Search Banquet by BIN
7. Search Attendee by Email and Update Attendee
8. Generate Analysis Reports
Operations for attendee:
9. Register Attendee
10. Update Attendee
11. Make banquet registration
12. Search Registered Banquets by partial name
13. Search Registered Banquets by attendee type
14. Search Registered Banquets by banquet date
15. Update Registered Banquets
16. Exit
Now, please pick one to start.
```



Introduction of 4.2 ~ 4.6

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4.2 Create Banquet

- For the quota of banquet, the administrator can only input an integer. Otherwise, an exception will be caught, and the procedure will be terminated.

```
Now, please pick one to start.  
1  
Input the banquet name:  
Charity Fundraiser  
Input the date and time:  
2024-12-05 19:30:00  
Input the address:  
456 Charity St, City  
Input the location:  
Ballroom A  
Input the First Name of the Contact Staff:  
Jane  
Input the Last Name of the Contact Staff:  
Smith  
Please input the availability: (Y/N)  
Y  
Please input the quota:  
150  
Banquet created successfully.
```

- For the price of meal, the administrator can only input a number. Otherwise, like the quota, an exception will be caught, and the procedure will be terminated.

```
Please input the meal 1 information:  
Input the dish name:  
Beef Salad  
Input the meal type:  
Beef  
Input the meal price:  
12.00  
Input the special cuisine:  
Italian
```


4.3 Update Banquet

- Please note that, if your updated information is in the wrong format, it will return you some information that you can revise your input.

```
Now, please pick one to start.  
2  
Please enter the BIN of the banquet you want to update:  
1  
Please enter your choice:  
[1]: Name  
[2]: Date and Time  
[3]: Address  
[4]: Location  
[5]: Contact First Name  
[6]: Contact Last Name  
[7]: Availability (Y/N)  
[8]: Quota  
1  
Enter new banquet name: Annual Playground  
Banquet name updated successfully.
```

4.4 Show All Banquets

- This is for the administrator to check the banquets information including name, time, address, location, name of the staff, availability and quota.

Now, please pick one to start.

3

BIN: 1 banquet_name: Annual Gala date_time: 2024-12-01 18:00:00 address: 123 Celebration Ave, City location: Grand Hall contact_first_nameJohn contact_last_name: Doe available: Y quota: 100

BIN: 2 banquet_name: Charity Fundraiser date_time: 2024-12-05 19:30:00 address: 456 Charity St, City location: Ballroom A contact_first_nameJane contact_last_name: Smith available: Y quota: 150

4.5 Show All Attendee

- This is for the administrator to check the Attendee information including email, first name, last name, address, type, password, mobile number and organization.

Now, please pick one to start.

4

email: helen.han@qq.com first_name: Helen last_name: HAN address: hk attendee_type: student passwordpassword mobile_number: 12345678 affiliated_organization: PolyU

email: michael.brown@example.com first_name: Michael last_name: Brown address: 111 Main St, City attendee_type: staff passwordpassword123 mobile_number: 12345678 affiliated_organization: PolyU

email: james.taylor@example.com first_name: James last_name: Taylor address: 333 Third St, City attendee_type: alumni passwordmypassword789 mobile_number: 12345678 affiliated_organization: HKCC

email: sara.lee@example.com first_name: Sara last_name: Lee address: 444 Fourth St, City attendee_type: staff passwordmypassword123 mobile_number: 87654321 affiliated_organization: HKUST

4.6 Show All Registrations

- This is for the administrator to check the Registration information including email, BIN, time, drink and meal choices, remarks and seat number.

```
Now, please pick one to start.
```

```
5
```

```
registration_id: 4 email: helen.han@qq.com BIN: 1 registration_time: 2024-11-01 12:00:00 drink_choice: Tea meal_choice:4 remarks: null seat_number: 5
```

```
registration_id: 1 email: michael.brown@example.com BIN: 1 registration_time: 2024-11-01 12:00:00 drink_choice: Coke meal_choice:2 remarks: Looking forward to it! seat_number: 5
```

```
registration_id: 2 email: james.taylor@example.com BIN: 1 registration_time: 2024-11-01 12:05:00 drink_choice: Water meal_choice:2 remarks: Please reserve a front seat. seat_number: 2
```

```
registration_id: 3 email: james.taylor@example.com BIN: 2 registration_time: 2024-11-01 12:10:00 drink_choice: Juice meal_choice:6 remarks: Allergic to nuts. seat_number: 10
```

4.7 Search Banquet By BIN

- This is for the administrator to check information regarding the banquet towards BIN.

```
Now, please pick one to start.  
6  
Enter BIN to search: 1  
BIN: 1  
banquet_name: Annual Gala  
date_time: 2024-12-01 18:00:00  
address: 123 Celebration Ave, City  
location: Grand Hall  
contact_first_nameJohn  
contact_last_name: Doe  
available: Y  
quota: 100
```

4.8 Search banquet by Email

- After picking this one, you will see “Enter email to search:”, then you will put the email you need to get what kind of information you want.

```
Now, please pick one to start.  
7  
Enter Email to search:  
michael.brown@example.com  
Email: michael.brown@example.com  
FirstName: Michael  
LastName: Brown  
Type: staff  
Address: 111 Main St, City  
Password: password123  
Affiliated_Organization: PolyU  
Mobile_Number: 12345678
```

4.9 Generate Analysis Report

- This is for the administrator to see the current information about how the banquets are managed, such as the registrations' status and attendees' behaviors. After entering the corresponding choice, the administrator can get an analysis report about the most popular meal or the most regular attendee.

```
Now, please pick one to start.
```

```
8
```

```
Enter your choice:
```


```
[1] Get the most popular meal
```

```
[2] Get the most regular attendee
```

```
[3] Back
```

```
1
```

```
meal_id: 2 type: Fish dish_name: TangCu Fish price: 50 special_cuisine: Chinese
```



Enter your choice:

[1] Get the most popular meal

[2] Get the most regular attendee

[3] Back

2

Email: james.taylor@example.com

FirstName: James

LastName: Taylor

Type: alumni

Address: 333 Third St, City

Password: mypassword789

Affiliated_Organization: HKCC

Mobile_Number: 12345678


4.10 Register Attendee

- The function is provided for the attendees. The attendees can submit their information through the hints which are shown by the system.

```
Now, please pick one to start.
9
Enter your first name: Sara
Enter your last name: Lee
Enter your address: 444 Fourth St, City
Enter your attendee type: staff
Enter your email: sara.lee@example.com
Enter your password: mypassword123
Enter your mobile number: 87654321
Enter your affiliated organization:
HKUST
Attendee registered successfully.
```

- After registering an account successfully, a list of available banquets will be shown.

```
Attendee registered successfully.
BIN: 1 banquet_name: Annual Gala date_time: 2024-12-01 18:00:00 address: 123 Celebration Ave, City location: Grand Hall contact_first_name: John contact_last_name: Doe available: Y quota: 100
BIN: 2 banquet_name: Charity Fundraiser date_time: 2024-12-05 19:30:00 address: 456 Charity St, City location: Ballroom A contact_first_name: Jane contact_last_name: Smith available: Y quota: 150
```



Introduction of 4.11-4.16

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4.11 update Attendee

- The attendees can update their information through the function after finishing the registration.
- There are 7 options for users to update their information. Users can change any information using the options.

```
Now, please pick one to start.  
10  
Please enter the email of the attendee you want to update:  
helen.han@qq.com  
Please enter your choice:  
[1]: FirstName  
[2]: LastName  
[3]: Address  
[4]: Type  
[5]: Password  
[6]: Mobile Number  
[7]: Organization  
7  
Enter new attendee organization: HKU  
Attendee organization updated successfully.
```

4.12 Make Banquet Registration

- The function is for the attendees to register to the banquet. They can choose the different banquets to register and attend.
- Once chosen to make registration, a list of available banquets will be shown first.

```
Now, please pick one to start.
11
BIN: 1 banquet_name: Annual Gala date_time: 2024-12-01 18:00:00 address: 123 Celebration Ave, City location: Grand Hall contact_first_nameJohn contact_last_name: Doe available: Y quota: 100
BIN: 2 banquet_name: Charity Fundraiser date_time: 2024-12-05 19:30:00 address: 456 Charity St, City location: Ballroom A contact_first_nameJane contact_last_name: Smith available: Y quota: 150
Input the banquet BIN
1
Input the attendee email:
helen.han@qq.com
Input the date and time:
2024-11-01 12:00:00
Input the drink choice:
Tea
meal_id: 1 type: Fish dish_name: Grilled Salmon price: 25 special_cuisine: Mediterranean
meal_id: 2 type: Fish dish_name: TangCu Fish price: 50 special_cuisine: Chinese
meal_id: 3 type: Chicken dish_name: Roast Chicken price: 8 special_cuisine: French
meal_id: 4 type: Chicken dish_name: Spicy Chicken price: 80 special_cuisine: Chinese
Input the meal choice:(meal_id)
4
Input the remarks:
Input the seat number:
5
Registered successfully.
```

4.13 Search Registered Banquets by partial name

- The function allows attendees to search banquets with the partial name. The users input the part of the name and the system can show the possible banquets.

```
Now, please pick one to start.
```

```
12
```

```
Enter a banquet partial name to search:
```

```
Playground
```

```
BIN: 1
```

```
Banquet Name: Annual Playground
```

```
Date Time: 2024-12-01 18:00:00
```

```
Location: Grand Hall
```



4.14 Search Registered Banquets by attendee type



- The function allows attendees to search banquets with the attendee type. The users input the type, and the system can show the possible banquets.

```
Now, please pick one to start.  
13  
Enter an attendee type to search:  
student  
BIN: 1  
Banquet Name: Annual Playground  
Date Time: 2024-12-01 18:00:00  
Location: Grand Hall
```

4.15 Search Registered Banquets by Banquet's date



- The function allows attendees to search banquets with the banquet's date. The users input the date, and the system can show the possible banquets.

```
Now, please pick one to start.  
14  
Enter a banquet date to search:  
2024  
BIN: 1  
Banquet Name: Annual Playground  
Date Time: 2024-12-01 18:00:00  
Location: Grand Hall
```

4.16 Update Registered Banquets

- The attendees can use this function to update their registration. It provides 5 options to make a choice for the users. They can change previous choices directly.

```
Now, please pick one to start.
```

```
15
```

```
Please enter the ID of the registration you want to update:
```

```
3
```

```
Please enter your choice:
```

```
[1]: Registration Time
```

```
[2]: Drink Choice
```

```
[3]: Meal Choice
```

```
[4]: Remarks
```

```
[5]: Seat
```

```
5
```

```
Enter new seat number: 15
```

```
Registration seat updated successfully.
```




THANKS

GROUP 13