Republic of the Philippines
BOHOL ISLAND STATE UNIVERSITY
Calape, Bohol
Calape Campus

COLLEGE OF TECHNOLOGY AND ALLIED SCIENCES
Information and Communication Technology Department

PROJECT IN DATABASE SYSTEMS

GB HOTEL

GigaBytes Hotel

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I.   PROJECT DESCRIPTION

GB HOTEL also known as GIGABYTES HOTEL. This system was created using Java programming language and the NetBeans IDE. Gigabytes hotel management system is developed by the students so that the system enables the admin or manager to list available rooms and branches. Costumer's can register to the system by giving the necessary information. Customers are able to view and reserve rooms through using the system. The hotel admin can control every aspect of the hotel digitally thanks to the project's java-based application, the GB hotel booking and management system. This system is extremely adaptable and practical because of its interactive GUI (Graphical User Interface) and the ability to manage different hotel branches, bookings and rooms. It determines the precise cost of rooms for the required number of days. The system provides guests with appropriate accommodations and experiences that pique their interest in their stay.

The goal of the GB hotel management system is to improve and manage the numerous duties and procedures used in hotels as well as improving the efficiency of booking procedures. In the core area of the database, it is primarily in charge of hotel management.

II.   SYSTEM PROCESSES

- LOGIN – This LOGIN process will let the user login to the system. This process will need to register first and if the user is already registered in the database, it will accept the username and password that is entered by the user. The system will check if the username and password existed in the database and if it exists, then the system will proceed to the (HOME JFRAME, Homepanel.java), otherwise the system will display" please register first!"

- REGISTER - This process will let the user input the information such as First name, Last name, Address, Age, Email, Gender, Birthdate, Username and Password. The system will allow the user to input his or her password again and must be the same or else the "Password do not match" message will appear and the user must use at least six digit character or else "Password must be at least 6 characters" message will appear and the register button is disabled. If the user has clicked the register button but has incomplete information provided, an error message dialog box will appear saying "Incomplete information". After filling all the required information, the user can now register and will be redirected to the home panel (HOME JFRAME, Homepanel.java).

- HOME – This process will enter the dashboard panel in which the user can book and reserve a room of his/her choice. The user can conveniently search their room using the many options displayed. When a user chooses the room of his /her choice after doing a search, this module assists the user in making a reservation while adhering to search customization such as choosing room type with the designated branch and hotel check-in and check-out date. After choosing the selected accommodation, the user will click the reserve button then a confirmation dialog box will appear. Moreover, if the user clicks the reserve button but did not choose any of the results, no confirmation dialog box will appear and must choose from the results first.

    The user can also choose to logout by clicking the logout label on the upper right corner of the home panel. The system will dispose the current JFrame and will redirect the user to the login panel (LOGIN JFRAME,
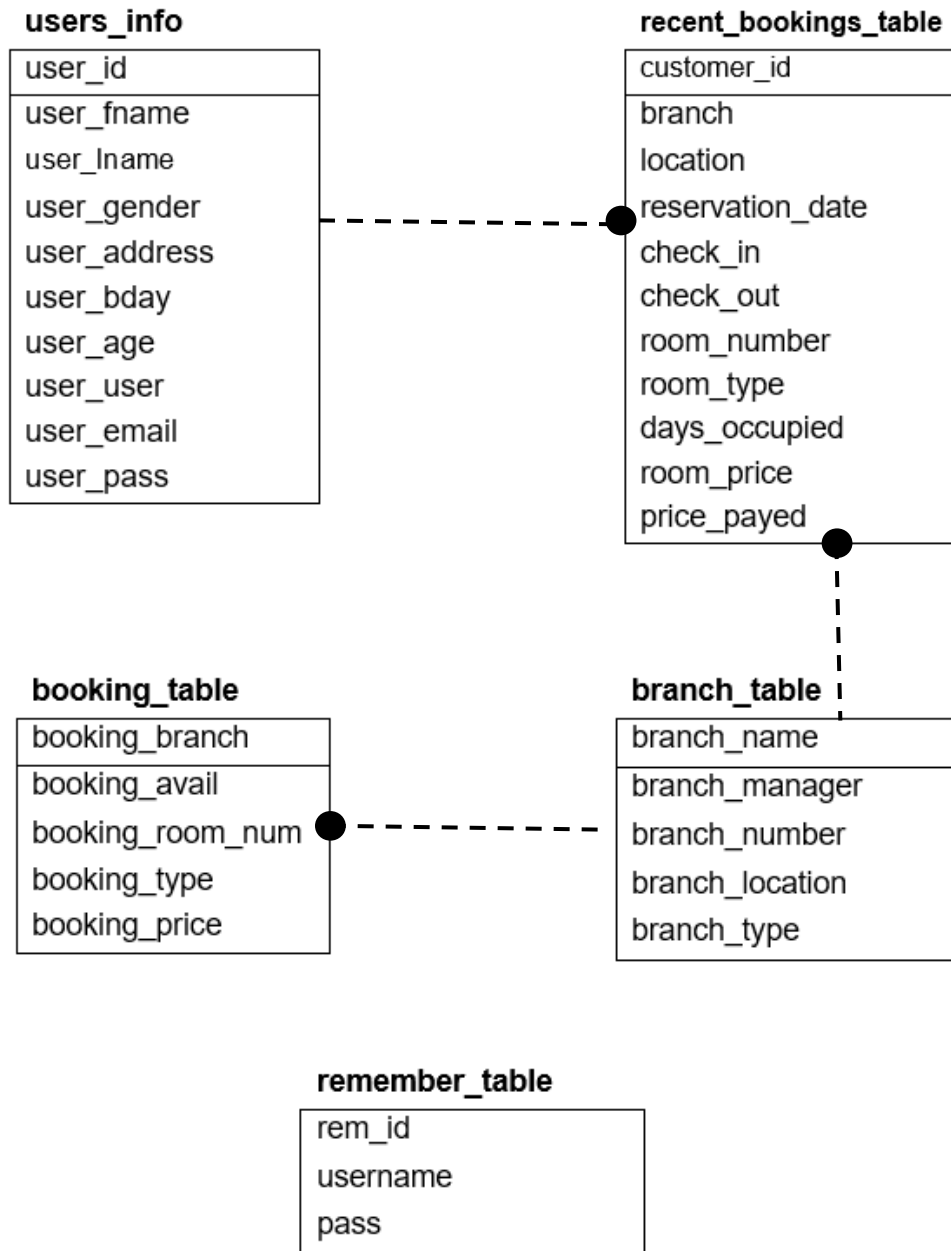
Loginpanel.java). The user can also go to his profile settings by clicking the profile icon on the upper left corner of the home panel. The system will open the settings window (SETTINGS JFRAME, Settingspanel.java)

- SETTINGS – Displays the users information. This will allow the user to view his/her recent bookings and can edit his/her personal information. This JFrame has Desktop Pane on it that will be used to display JInternal Frames that corresponds to each buttons above namely (RECENT BOOKINGS INTERNAL FRAME (RecentIFrame.java), EDIT PROFILE INTERNAL FRAME (EditProfileIFrame.java), ADMIN AREA INTERNAL FRAME (AdminIFrame.java)).
  - RECENT BOOKINGS - Displays the users recent booking reservation.
  - EDIT PROFILE – The user's name, contact information, address, and other required information are all listed in their profile. They can edit their profile and can change their password. They must register in order to edit their profile. If some of the text fields, buttons or combo box are empty, the JOption message will appear saying "Incomplete information".
  - ADMIN AREA– can be accessed using the password "admin". The admininstrator has access to update other service elements such as hotel rates, add accommodations, view history and the users as well as adding another branch.
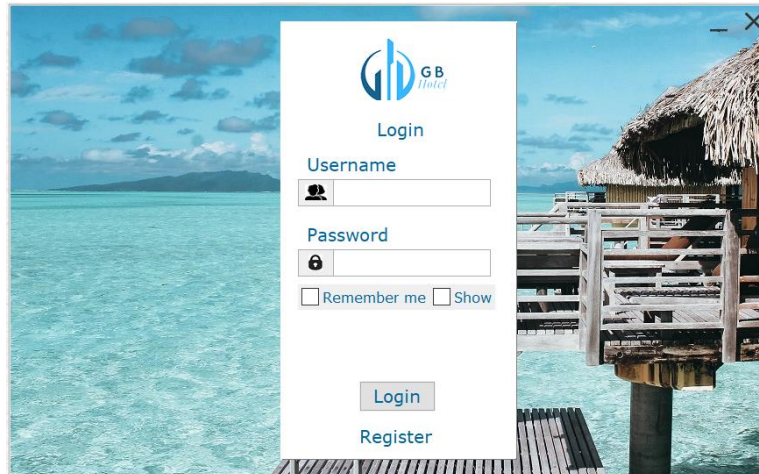   The admin area has tabbed pane that corresponds to each process, these are (MANAGE BOOKINGS TAB, MANAGE BRANCHES TAB, BOOKING HISTORY TAB, USERS TABLE TAB)
    - MANAGE BOOKINGS – This process allows the administrator to add, edit and delete bookings. When the new button is clicked all of the combo box and text fields are enabled. Some of the combo box items are automatically inserted from the database. When editing, the user must click the edit button first and in order for the data to be inserted to combo box and text fields, the user must click any row of the table. The user can only input number characters only in the room number and room price text fields. To delete data in the table, the user must click any of the row else delete button is disabled.
    - MANAGE BRANCHES – This process will allow the administrator to add, edit and delete branches. When the new button is clicked all of the text fields are enabled except the branch number which is auto generated. When editing, the user must click the edit button first and in order for the data to be inserted text fields, the user must click any row in the table. To delete data in the table, the user must click any of the row else delete button is disabled.
    - BOOKING HISTORY – This process will allow the administrator to see the reservation history of all the users in the system.
    - USERS TABLE – This process will allow the administrator to see all the users and their information registered in the system.
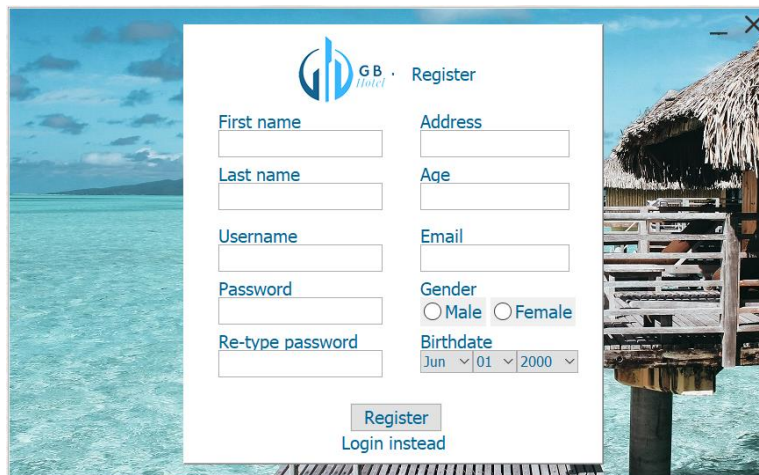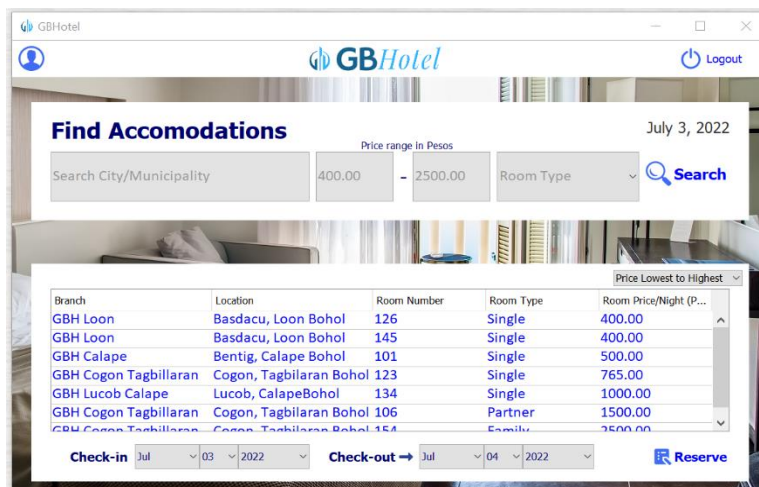
III.   ENTITY-RELATIONSHIP DIAGRAM

users_info

user_id
user_fname
user_lname
user_gender
user_address
user_bday
user_age
user_user
user_email
user_pass

recent_bookings_table

customer_id
branch
location
reservation_date
check_in
check_out
room_number
room_type
days_occupied
room_price
price_payed

booking_table

booking_branch
booking_avail
booking_room_num
booking_type
booking_price

branch_table

branch_name
branch_manager
branch_number
branch_location
branch_type

remember_table

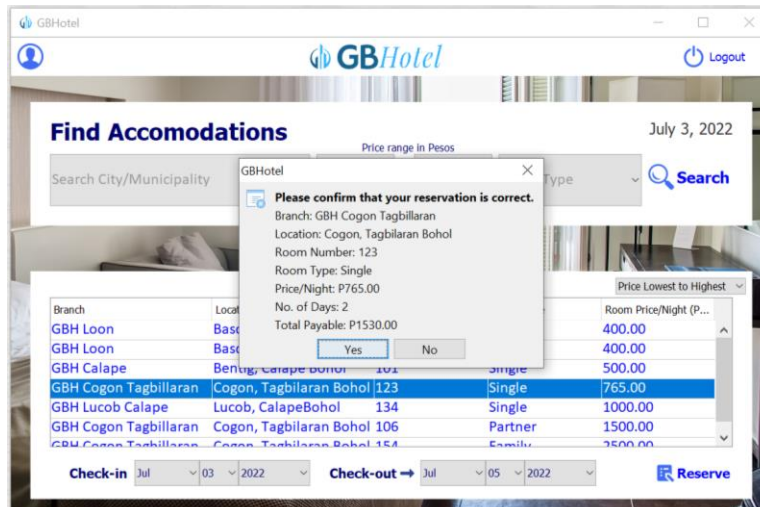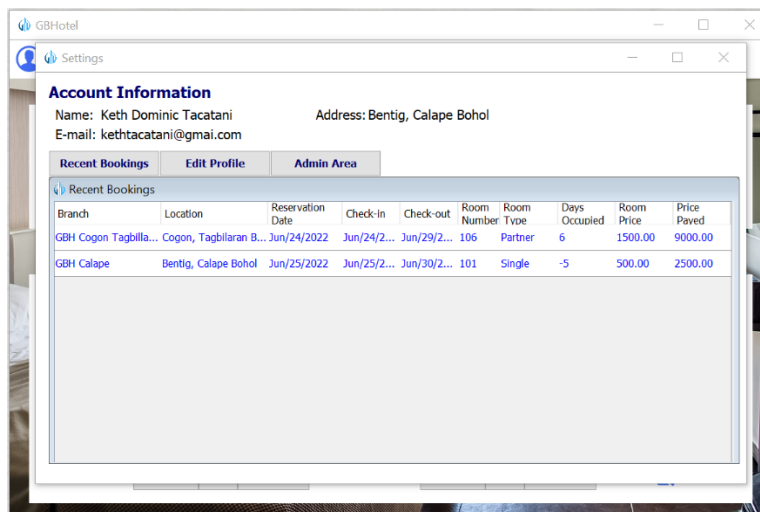| rem_id |
| --- |
| username |
| pass |

IV. PREVIEWS

Preview 1.0 Login

Preview 2.0 Registration

Preview 3.0 Home

Preview 3.1 Reserve Confirmation

Preview 4.0 Profile and Settings

Preview 4.1 Recent Bookings

Recent Bookings	Edit Profile	Admin Area

Profile Information

Edit Profile

First name
Keth Dominic

Last name
Tacatani

Username
kethtacatani

New Password
••••••••••••

Re-type password
••••••••••••

Address
Bentig, Calape Bohol

Age
21

Email
kethtacatani@gmai.com

Gender
◉ Male ○ Female

Birthdate
Sep ▾ 04 ▾ 2001 ▾

Save Changes

Preview 4.2 Edit Profile

Recent Bookings	Edit Profile	Admin Area

Recent Bookings

Branch	Location	Reservation	Check-in	Check-out	Room	Room Type	Days Occupied	Room Price	Price Payed
GBH Cogon Tagbilla...	Cogon, Tagbilaran B...	J...				artner	6	1500.00	9000.00
GBH Calape	Bentig, Calape Bohol	J...				ingle	-5	500.00	2500.00

GBHotel Admin ✕

Enter Admin Passowrd
[   ]

OK   Cancel

Preview 4.3 Admin Area Password Prompt

Administrator Area

Manage Bookings Manage Branches Booking History Users Table

Branch	Location	Room Number	Room Type	Availability	Price/Night
GBH Calape	Bentig, Calape Bohol	102	Partner	Reserved	600.00
GBH Calape	Bentig, Calape Bohol	101	Single	Vacant	500.00
GBH Calape	Bentig, Calape Bohol	107	Single	Reserved	600.00
GBH Cogon Tagbillaran	Cogon, Tagbilaran Bohol	123	Single	Vacant	765.00
GBH Cogon Tagbillaran	Cogon, Tagbilaran Bohol	154	Family	Vacant	2500.00
GBH Cogon Tagbillaran	Cogon, Tagbilaran Bohol	106	Partner	Vacant	1500.00
GBH Loon	Basdacu, Loon Bohol	145	Single	Vacant	400.00
GBH Loon	Basdacu, Loon Bohol	126	Single	Vacant	400.00
GBH Lucob Calape	Lucob, CalapeBohol	134	Single	Vacant	1000.00

New   Edit   Delete

Branch	Location	Room Number	Room Type	Availability	Price per Night
▾	▾	Room Number	▾	▾	Room Price

Add

Preview 4.3.1 Manage Bookings

Administrator Area

Manage Bookings **Manage Branches** **Booking History** **Users Table**

Branch Number	Branch Name	Manager	Location	Branch Type
1	GBH Calape	George Bugwak	Bentig, Calape Bohol	Main Branch
2	GBH Loon	Glen Cyril Garidos	Basdacu, Loon Bohol	Sub Branch
3	GBH Cogon Tagbillaran	Queene Anne Dumangas	Cogon, Tagbilaran Bohol	Sub Branch
4	GBH Tubigon	Louren Mhel Garces	Poblacion, Tubigon Bohol	Sub Branch
5	GBH Sagbayan	Keth Dominic Tacatani	Libertad, Sagabyan, Bohol	Sub Branch
6	GBH Lucob Calape	Kim Concha	Lucob, CalapeBohol	Sub Branch

New	Edit	Delete

Branch Number	Branch Name	Manager	Location	Branch Type
				Sub Branch

Add

Preview 4.3.2 Manage Branches

Administrator Area

Manage Bookings **Manage Branches** **Booking History** **Users Table**

Customer Id	Branch	Location	Reservation Date	Chek-in	Check-out	Room No.	Room Type	Days Occupied	Price /Night	Price Payed
3	GBH Loon	Basdacu, Loon Bohol	Jul/04/2022	Jul/04/2022	Jul/05/2022	145	Single	1	400.00	400.00
7	GBH Cogon Tagbillaran	Cogon, Tagbilaran Bohol	Jul/04/2022	Jul/04/2022	Jul/07/2022	154	Family	3	2500.00	7500.00
6	GBH Calape	Bentig, Calape Bohol	Jul/04/2022	Jul/04/2022	Jul/06/2022	174	Partner	2	800.00	1600.00
14	GBH Calape	Bentig, Calape Bohol	Jul/04/2022	Jul/04/2022	Jul/05/2022	101	Single	1	500.00	500.00

Results: 4

Preview 4.3.3 Booking History

Administrator Area

Manage Bookings **Manage Branches** **Booking History** **Users Table**

User Id	First Name	Last Name	Gender	Address	B-Day	Age	Email
3	Keth Dominic	Tacatani	Male	Bentig, Calape Bohol	Sep/04/2001	21	kethtacatani@gmai.com
6	louren	Garces	Female	Bentig Centro	Jun/1/2000	19	louren@gmail.com
7	Queenne Ann	Dumangas	Female	Calape, Bohol	Jan/13/2001	21	dumangasqueenneann@gmail.cor
9	George	Bugwak	Male	CAtigbian	Jun/01/2000	21	george@gmail.com
10	Nicole	Palwa	Female	Banlasan, Tubigon Bohol	Jul/21/2002	19	nicolepalwa@gmail.com
11	Glenn Cyril	Garidos	Male	Catigbian	Dec/30/2001	20	jorgebugwak
12	louren mhel	garces	Female	bentig,calape,bohol	Apr/16/2001	21	louren18@gmail.com
13	kim	concha	Male	Poblacion, Tubigon Bohol	Jun/01/2000	20	kim@gmail.com

Results: 8

Preview 4.3.4 Users Table

V.   CODE

VI.   BIBLIOGRAPHY

First name: Keth Dominic
Last name: Tacatani
Middle name: Bacquial
Gender: Male
Address: Purok 5, Bentig, Calape, Bohol
Educational Background:
Elementary
        Bentig-Calunasan, Elementary school
        Calunasan, Calape, Bohol
        S.Y. 2013-2014
Secondary Junior High School
        Mayor Anunciacion R. Tuazon National School of Fisheries
        Calunasan, Calape, Bohol
        S.Y. 2017-2018
Secondary Senior High School
        Mayor Anunciacion R. Tuazon National School of fisheries
        Calunasan, Calape, Bohol
        S.Y. 2019-2020

First Name: Glenn Cyril
Last Name: Garidos
Middle Name: Vistal
Gender: Male
Address: Purok 4, Mantasida, Catigbian, Bohol
Educational Background:
Elementary
        Mantasida Elementary School
        Mantasida, Catigbian, Bohol
        S.Y. 2013-2014
Secondary Junior High School
        Mantacida National High School
        Mantasida, Catigbian, Bohol
        S.Y. 2017-2018
Secondary Senior High School
        Mantacida National High School
        Mantasida, Catigbian, Bohol
        S.Y. 2019-2020

First name: Queenne Ann
Last name: Dumangas
Middle name: Mante
Gender: Female
Address: Purok 6, Lucob, Calape, Bohol
Educational Background:
Elementary
         Bentig-Calunasan, Elementary school
         Calunasan, Calape, Bohol
         S.Y. 2012-2013
Secondary Junior High School
         Mayor Anunciacion R. Tuazon National School
         of Fisheries
         Calunasan, Calape, Bohol
         S.Y. 2016-2017
Secondary senior High School
         Mayor Anunciacion R. Tuazon National School of
         fisheries
         Calunasan, Calape, Bohol
         S.Y. 2018-2019

First name: Louren Mhel
Last name: Garces
Middle name: Cubillo
Gender: Female
Address: Purok 7, Bentig, Calape, Bohol
Educational Background:
Elementary
         Bentig-Calunasan, Elementary school
         Calunasan, Calape, Bohol
         S.Y. 2013-2014
 Secondary Junior High School
         Mayor Anunciacion R. Tuazon National School of
         Fisheries
         Calunasan, Calape, Bohol
         S.Y. 2017-2018
Secondary Senior High School
         Mayor Anunciacion R. Tuazon National School of
         fisheries
         Calunasan, Calape, Bohol
         S.Y. 2019-2020