

Hotel Reservations 1

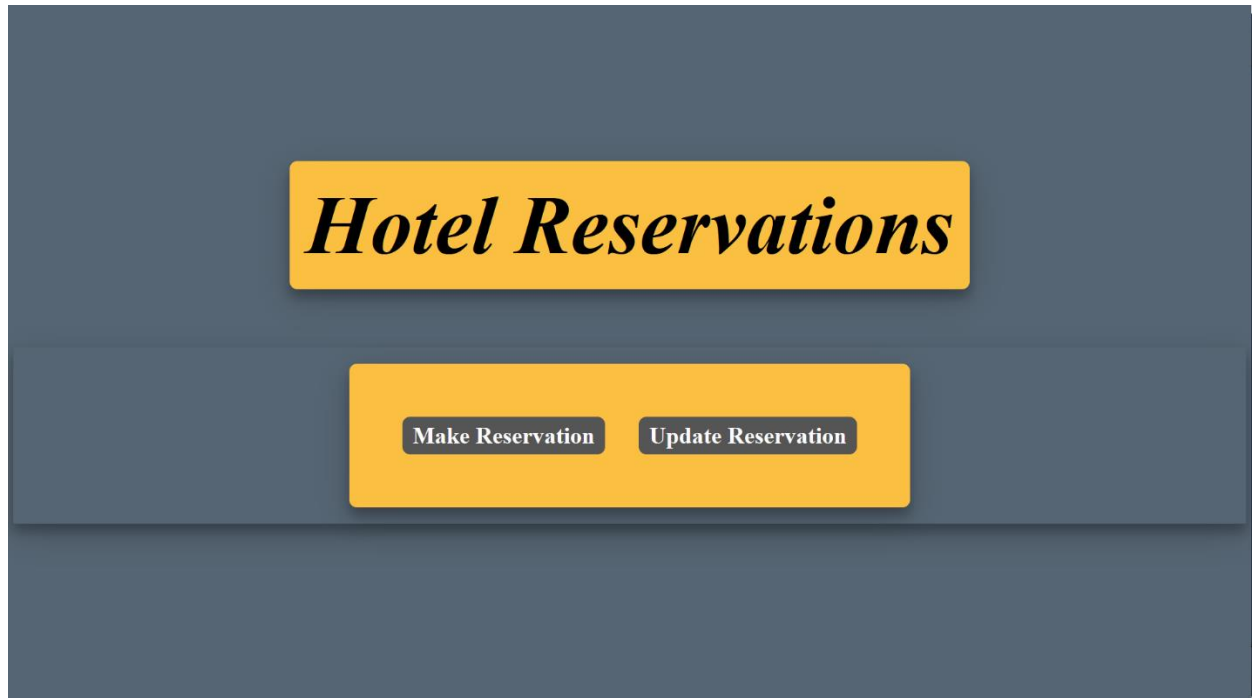
CST 438

Final Report

Team 3

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<https://cst438-hotel-reservation.herokuapp.com>



This is the “Hotel Reservation” homepage. The user can either make a reservation or update an existing reservation. Each page subsequent has the “Hotel Reservations” banner as a link to the homepage. The colors of certain banners, headings and backgrounds change via CSS.

The image shows a 'Customer Form' for making a reservation. It has a dark blue background. At the top, there is a yellow banner with the text 'Hotel Reservations' in a bold, italicized serif font. Below this banner, there is a yellow rectangular area containing a teal header with the text 'Customer Form' in a bold, italicized serif font. Below the header, there are three input fields: 'First Name' with the value 'Billy', 'Last Name' with the value 'Kid', and 'Email' with the value 'billkid@yahoo.com'. Below these fields is a dark grey 'Submit' button.

If the user chooses to make a reservation, this is the page where he/she can enter his/her first name, last name, and email address.

Hotel Reservations

WELCOME BILLY KID!

Please select your check-in and check-out dates

Check In

08 / 15 / 2020

Check Out

08 / 21 / 2020

City

Honolulu

Search Hotels

The user can then select the check-in and check-out dates via dropdown calendar options. He/she can also select from 3 cities from which to seek hotels: Honolulu, Monterey, and San Diego.

Check In Date : 08/15/2020 Check out Date : 08/21/2020 City : Honolulu


Hotel Reservations

Gaia Hawaii at Trump Waikiki Hotel

222 Surferosa Road, Honolulu HI 96815 USA

Rating : 4.9

Gaia Hawaii at Trump Waikiki Hotel, Gaia Hawaii at Trump Waikiki Hotel offers 7 air-conditioned accommodations with ironing boards and complimentary toiletries. Flat-screen televisions are featured in guestrooms. Guests can relax with using the complimentary wireless Internet access.




Make Reservation

Lotus Honolulu at Diamond Head

2085 Kalia Avenue, Honolulu HI 96815 USA

Rating : 4.2

Opposite Kapalani Park, this polished hotel with views of the Pacific Ocean and Diamond Head Volcano, just a 7-minute drive. It offers a shopping mall, and a walk from the Honolulu Museum of Art. Stylish, air rooms offer Wi-Fi, flat decks, flat-screen, refrigerators and private balconies. Other add-on amenities include a pet-friendly policy, 24-hour security, a fitness center and a valet service.



Make Reservation

The user can select a hotel after selecting the city.

Check-in Date : 08/15/2020
Check-out Date : 08/21/2020
City : Honolulu
Hotel : Gaia Hawaii at Trump Waikiki Hotel

Hotel Reservations


Room Choices

Pick room quantity and click "Make Reservation" button

Make Reservation


Gaia Hawaii at Trump Waikiki Hotel

Standard \$491



Room Quantity : 5

Intermediate \$900



Room Quantity : 1

After selecting a hotel, the user can now select types and number of rooms per type: Standard, Intermediate or Luxury.

Hotel Reservations


Reservation Confirmation

Reservation ID	6
Name	billy kid
Hotel	Gaia Hawaii at Trump Waikiki Hotel
City	Honolulu
Check-In	08/15/2020
Check-Out	08/21/2020
Number of Standard Room	5
Number of Intermediate Room	1
Number of Luxury Room	0
Price of Standard Room	\$2455
Price of Intermediate Room	\$900
Price of Luxury Room	\$0
Number of Nights	6
Total Price	\$20130

Update Reservation

Once the user finishes making a reservation, this page serves as a reservation confirmation and online receipt providing a Reservation ID number and other information regarding the

reservation. The user can either go back to the homepage via the banner link or click on the button “Update Reservation,” which also appears on the homepage.

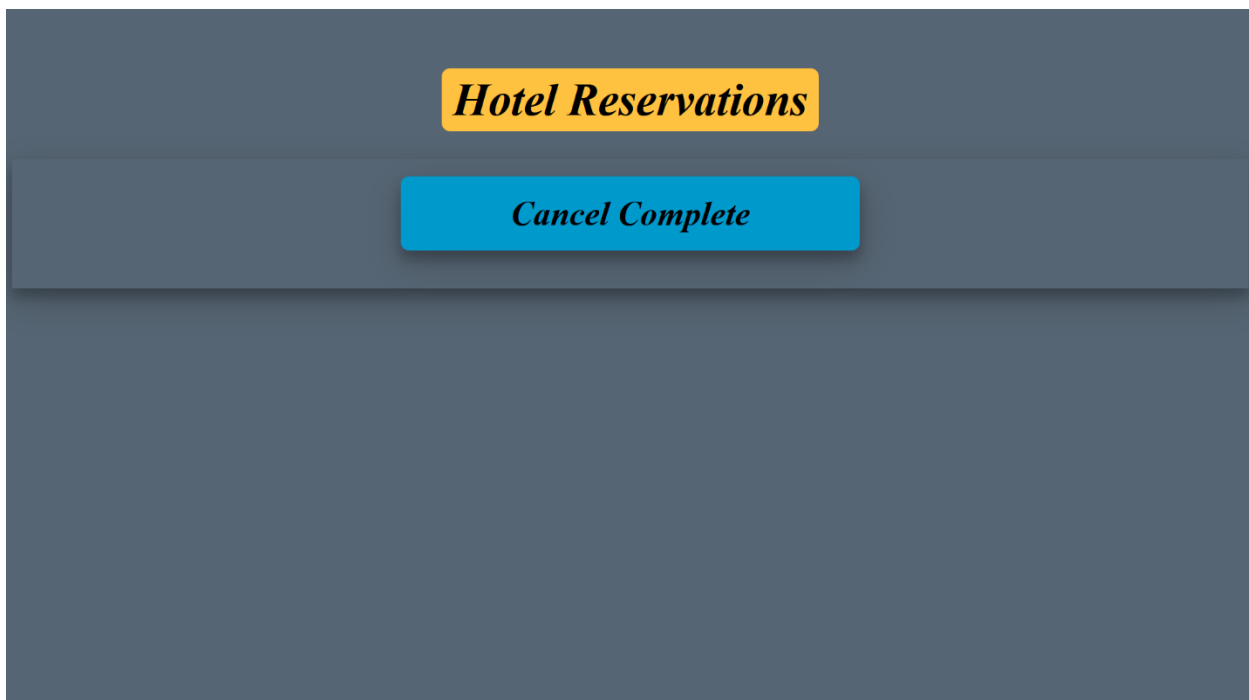


The image shows a web interface for updating a reservation. It features a dark blue background with a central green panel. At the top of the panel is a header **Hotel Reservations**. Below it is a sub-header **Update Reservation**. The form contains two input fields: the first is labeled "Enter your ID" with a small ID icon and a "Look Up By ID" button; the second is labeled "billkid@yahoo.com" and a "Look Up By Email" button. An "OR" separator is placed between the two options.

If the user ever clicks on the “Update Reservation” buttons on the homepage, the reservation confirmation page or the display reservations page (shown below), he/she will land on this page and has the option to find one reservation based on the Reservation ID provided in the reservation confirmation page or possibly multiple reservations based on the user’s email address.

Hotel Reservations										
Reservation ID	Hotel Name	Hotel Address	Check In	Check Out	Standard Room	Intermediate Room	Luxury Room	Total Price	Cancelled	Past Date
6	Gaia Hawaii at Trump Waikiki Hotel	223 Saratoga Road, Honolulu HI 96815 USA	08/15/2020	08/21/2020	5	1	0	\$20130	No	No
										Update Reservation
										Cancel Reservation

Once the user selects a reservation by Reservation ID or email address, this page lets the user view information about the reservation and has the option to either update the reservation or cancel it.



If the user chooses to cancel the reservation, he/she is taken to this page, notifying him/her that the reservation was cancelled successfully.

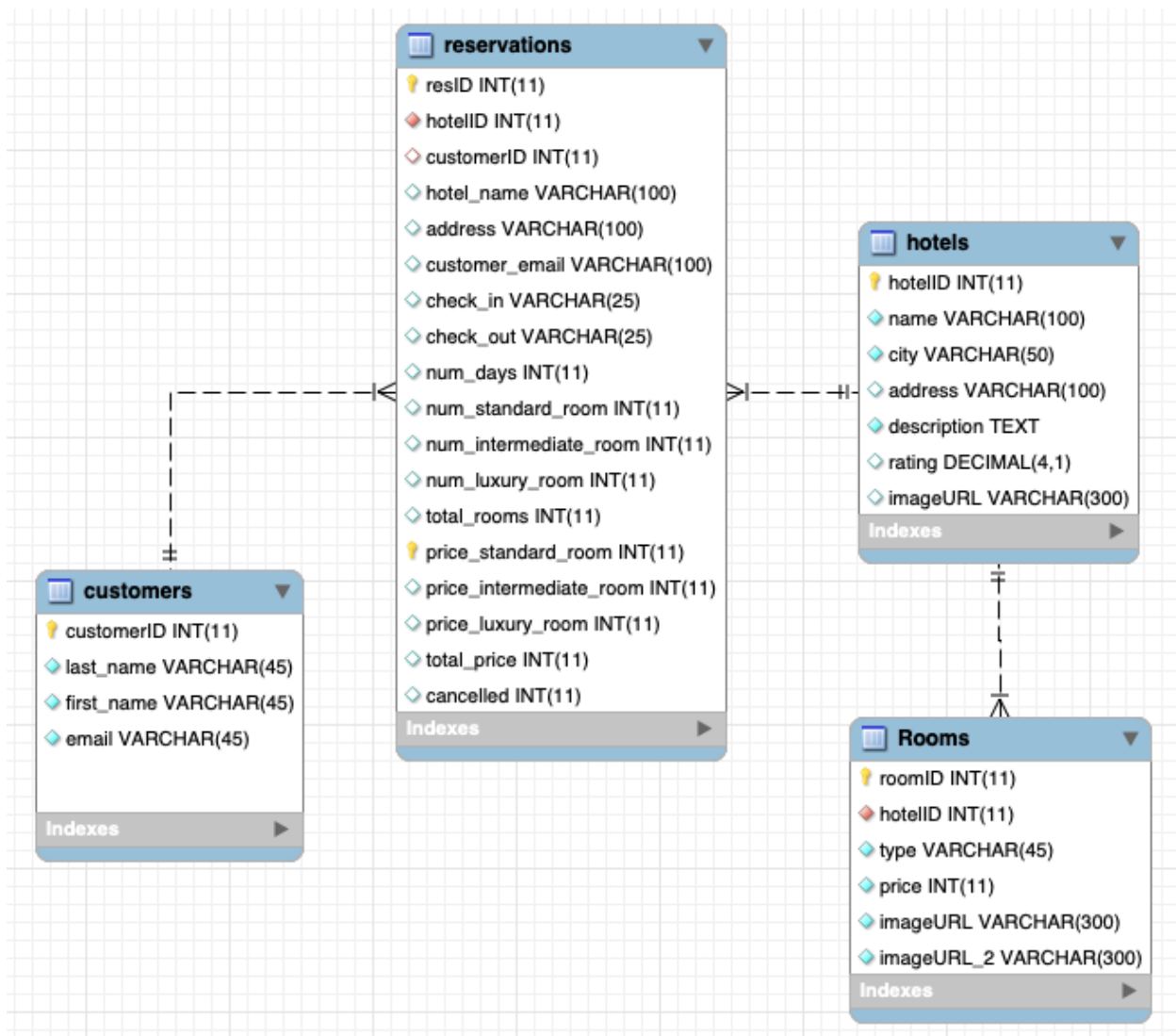
Database Design

For our database, we created 4 tables that record reservations, customer information, hotel information, and room information. In the beginning of making the reservation, customers are asked to provide their first name, last name, and email address. This information is stored within the customers table.

After the customer decides the check-in and check-out dates with their choice of city, our site will provide a list of hotels in the city of the customer's choice. All the information about the hotel is stored inside the hotels table. Columns include: hotelID, hotel name, city, address, short description, rating, and image URL.

After the customer chooses a hotel, our site will display the rooms that are available for that hotel. These rooms are related to the hotel table with hotelID as its foreign key.

Each table is created independently from each other, except the reservations table, to allow new records without breaking the code.



Project Experience

This project demonstrated a little bit of what it would be like to work at a professional environment. While working with teammates on the same service, we had to discuss code review often to make sure that we as a team are on the same page. By repeatedly reviewing each other's code, we had fewer misunderstandings of each other and allowed faster production than if only one person were to code the whole project. This project taught us teamwork. Secondly, this project also requires collaboration between different services. This forced us to think about the needs of other services and build our code and database based on their needs and our needs. The collective teamwork collaboration helped spread the production of the bigger system with different services by different teams. We overall did not have any issue collaborating with other teams.

One of the biggest mistakes we learned while doing the project is that we started testing after the app was deployed to Heroku. By the time we had deployed our program to Heroku, we had missed the timing of testing for functions and unit testing. We then had to create a different project to run on localhost to start testing the entire program from start to finish. In our experience, this took a good amount of our time and we realized that testing should be done while coding the program. Not only did we learn about the timing of testing, but we also learned about the importance of testing. Junit testing with Mockito allowed us to create stubs, expected values, to compare with real values. By doing so, we became more confident of the functions we created. Next time we build a larger project, we will make sure to start testing along with the coding and design of the program.