

KULLIYYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY

DEPARTMENT OF INFORMATION SYSTEMS

INFO 3305 – Web Application Development

Semester 2 2020/2021

Proposal: Hotels Reservation System

Group Members

| Member's Name | Matric No. |
|-------------------------------|-------------------|
| Musaeva Gulrukhsor | 1817852 |
| Intan Najwa Binti Mazlan | 2017424 |
| Normunawwarah Binti Sanaludin | 1810070 |
| Ma Haikun | 1825719 |
| Nur Anis Mohd Affandi | 1817100 |

Youtube link (Video Presentation): https://www.youtube.com/watch?v=8i-jj_UaNd0

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1.0 Introduction

A hotel reservation system is a necessity for today's accommodation providers as the reservation system enables users to book a hotel room with a cohesive system where it allows users to navigate the system by adding, filling and searching a hotel and the room based on their preferences. As well, it allows the users to book the hotel room online and the system encompasses the hotel's availability resources such as Wifi, Pools and Breakfast. Furthermore, the system provides multiple pictures for each hotel room. Other than that, it validates the users to schedule dates and length of stay.

2.0 Objectives

- Allow users to look for personal references in hotels.
- Allow the system to display the hotel availability.
- Able users to navigate the system in terms of filling form and searching.
- Allow users to delete booking reservations.

3.0 Features and Functionalities

- Associate every online booking
- Enable users to search and find the most relevant booking options
- Accept date and time to check available rooms for that particular time
- Booking confirmation should be sent to the specified contact details
- Calculate and display accommodation charges and other utilities
- Cancel bookings
- Display and change records of guests

4.0 Entity Relationship Diagram (ER Diagram)

4.1 Views

- home.blade.php : Displays various hotels' room availability and a Home page.
- bookingform.blade.php : Displays a form for users to book a hotel's room.
- showbookform.blade.php : Displays User details on booking the room and displays a book room detail page with edit and delete button for cancelation.
- Index.php until index6.php : Display available hotel's room.

4.2 Controllers

- roomsController.php:
 - Allows booking room form passed into the database.
 - Allows booking room form data to be updated.
 - Allows booking room form data to be removed from database

4.3 Routes

- Route::get('/bookingform', [App\Http\Controllers\roomsController::class, 'index'])->name('rooms'): Route for return return data passed rooms form which roomsController.php into view.

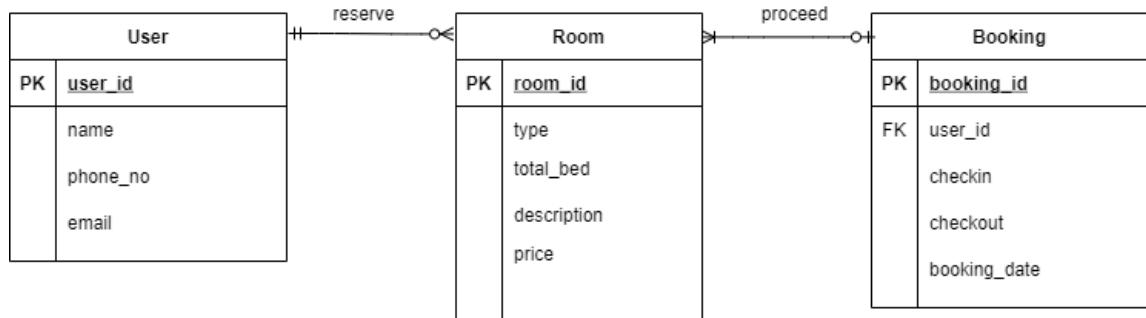
4.4 Models

- Booking.php : user has one-to-many relationship with booking room (a users can book many rooms)
- Room.php : room has one-to-one relationship with user (one book room has one user)

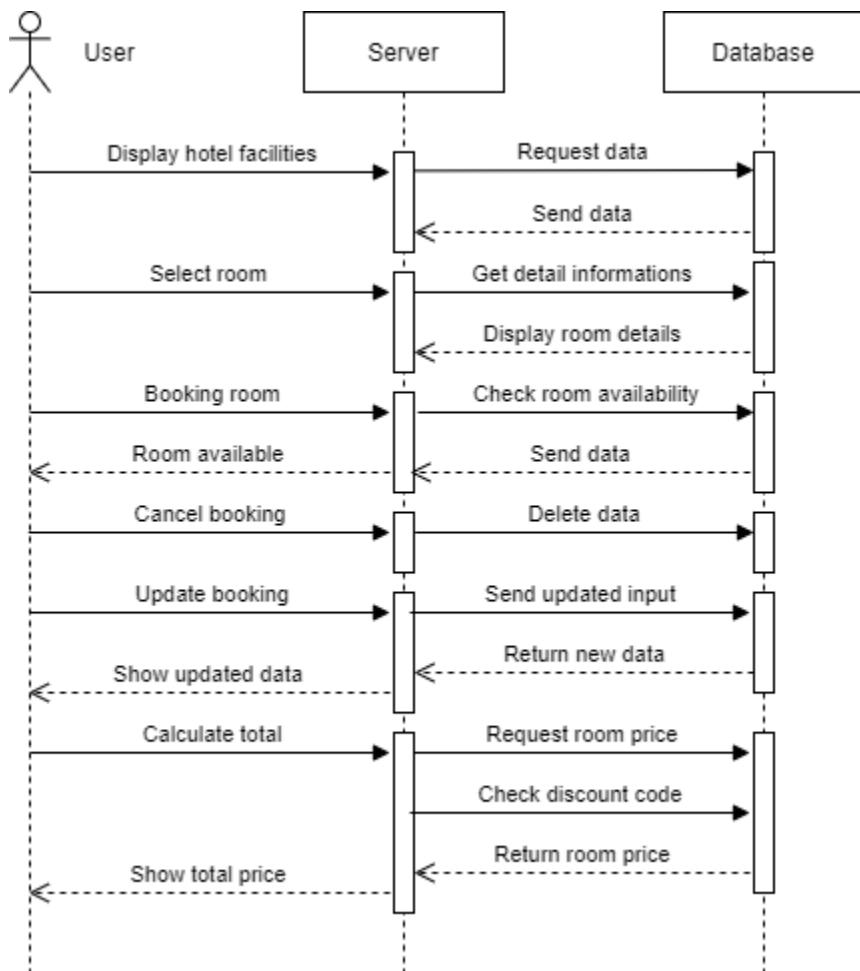
4.5 User Authentication

- User update room booking (cancel/change).

4.6 ER Diagram

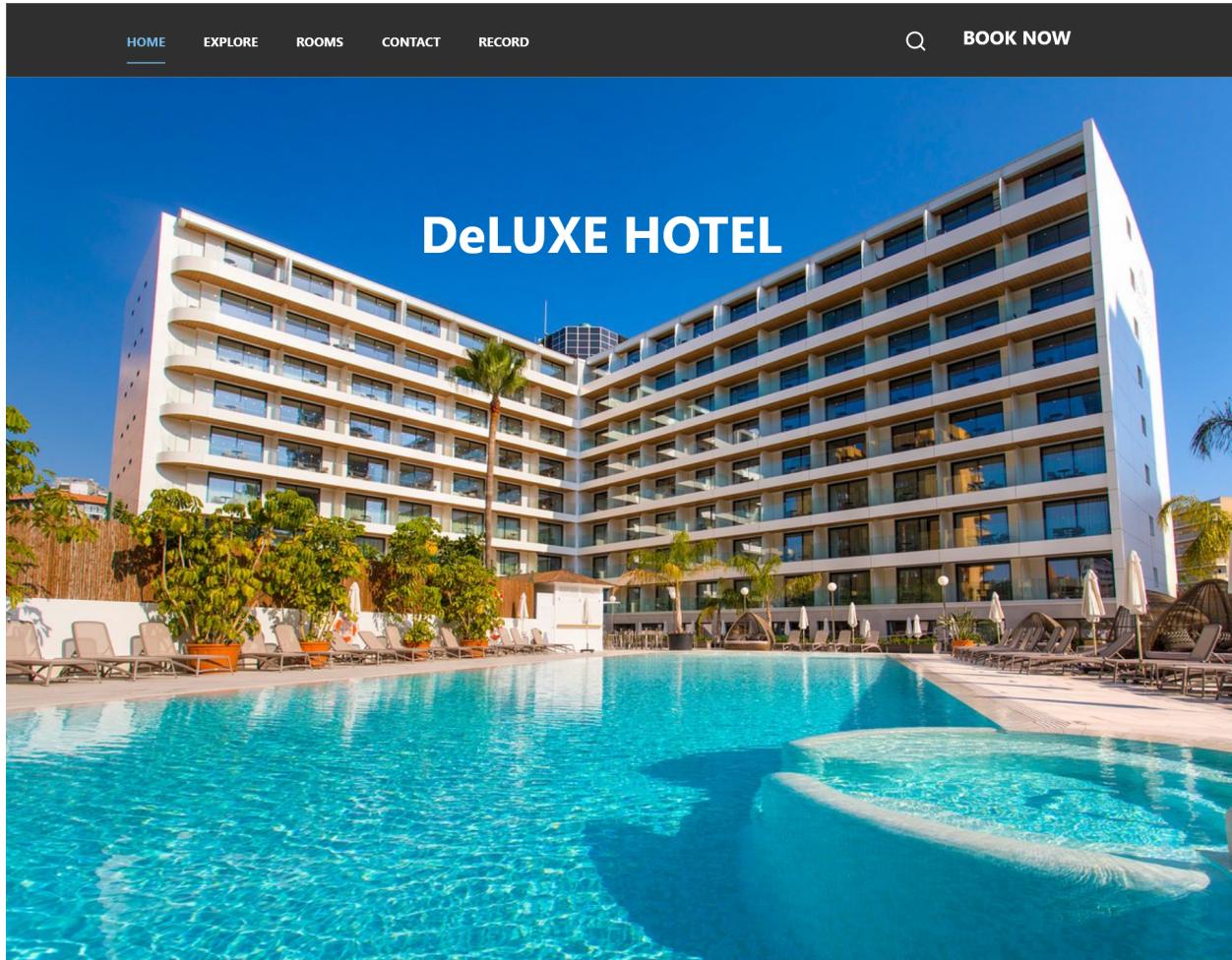


4.7 Sequence Diagram



5.0 Mock-Up

5.1 HOME Page



5.2 EXPLORE Page

HOME EXPLORE ROOMS CONTACT RECORD

BOOK NOW

WE MAKE OUR CUSTOMERS
FEEL LIKE HOME IN OUR ROOMS BY
GREAT SERVICES

Explore

Café / Launge

Located on the ground floor. The café and Launge is the perfect place for you to experience a culinary journey with an extensive selection of beverages, a perfect spot for casual business discussion or the wrap up the day with acquaintances.

Gymnasium

Located on the third floor. 24-Hours Gym studio is the perfect place to stay in shape and improve your health. With a wide range of state-of-the-art equipment, you can join our yoga, fitness and weight building classes. Stay fit and work out with ease as you are on the go.

Swimming Pool

Refresh and rejuvenate your body with a splash at our pool. Experience the 25-metre infinity-edged outdoor pool, set within lush gardens and tropical surroundings. Anticipate heavenly and soothing warmth at our outdoor jacuzzi.

5.3 ROOMS Page

HOME EXPLORE ROOMS CONTACT RECORD BOOK NOW

WE MAKE OUR CUSTOMERS
FEEL LIKE HOME IN OUR ROOMS BY
GREAT SERVICES

Rooms & Suits

SPECIAL FOR YOU

Double
\$180/days

Twin
\$200/days

Deluxe suite
\$500/days

5.4 ROOMS Details Page

HOME EXPLORE ROOMS CONTACT RECORD

BOOK NOW



[Deluxe suite, 59㎡~73㎡, 87th~101st floor]

The guest rooms have a spectacular view of the city, the interior is retro and elegant, modern and refined, aiming to create the ultimate leisure stay experience for guests

Room features

The hotel is located high in the sky, all rooms have panoramic views
Super luxurious beds and bedding help you sleep soundly
Free use of health club (including swimming pool)
Free entry to the guest lounge
* Children under 12 years old are restricted to enter the venue.
Provide personalized pillows
Free wireless high-speed internet connection in all rooms
Turn down service

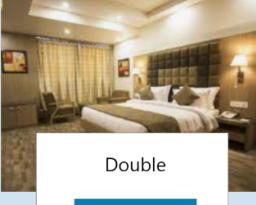
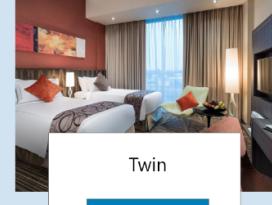
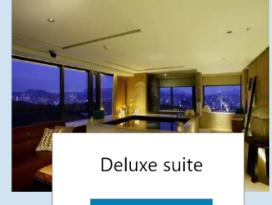
What we offer

| Facility | Serve |
|--|--|
| Free WIFI/60-inch HD TV/ minibar/tea maker/safe/desk / telephone/weight scale/umbrella /shoehorn/cable satellite TV channels /coffee maker and tea spoon | 2 free bottled water daily /free daily newspaper /free pressing Shirt service/ clothes brush/shoe shine service |

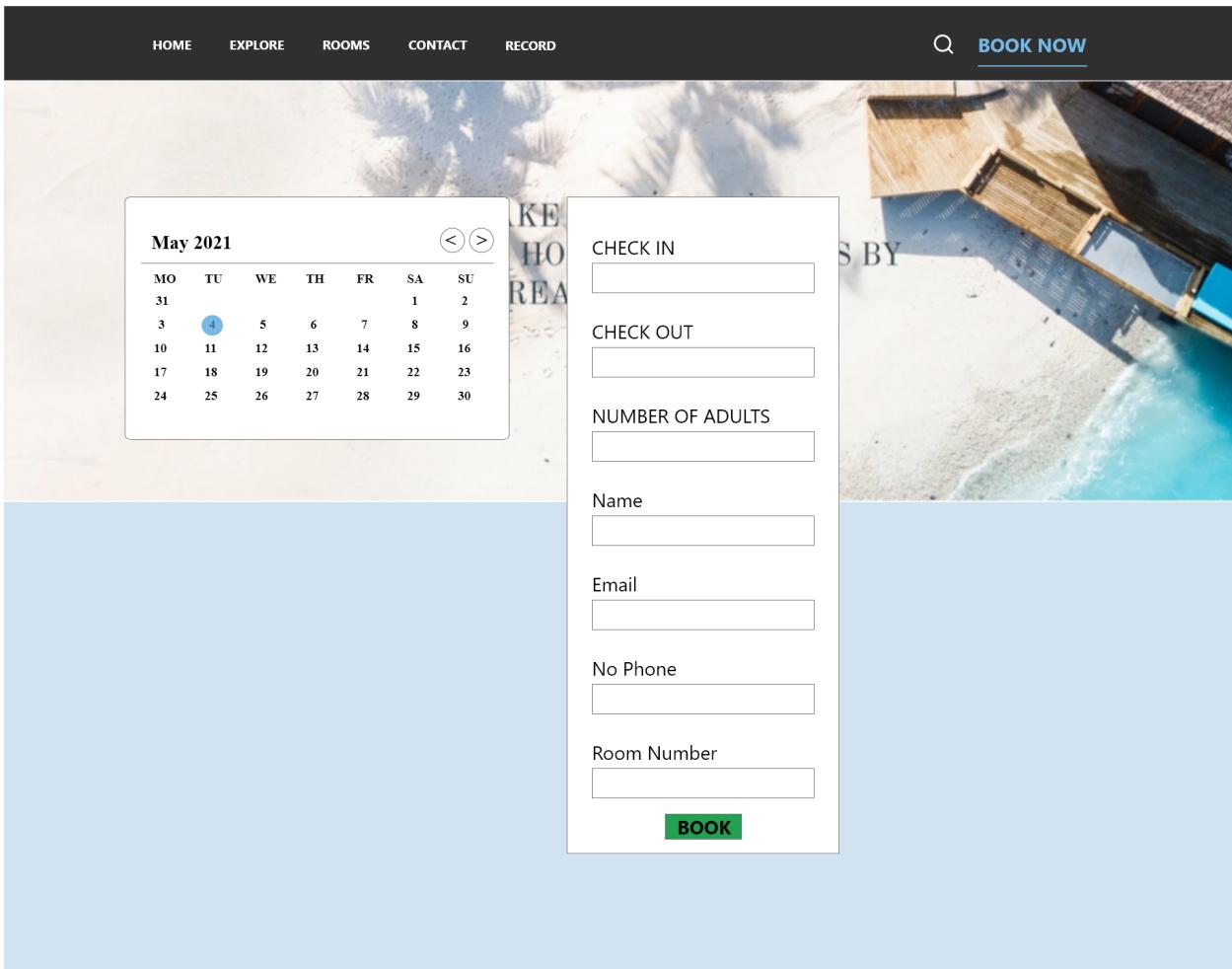
The Price

| Deluxe suite | |
|--------------------------|-------------------|
| Weekdays | Weekends |
| From Monday to Friday | Saturday & Sunday |
| \$ 500 | \$ 520 |
| Book Now | |

You may fall in love

| | | |
|---|---|--|
|  <p>Double \$180/day</p> |  <p>Twin \$200/day</p> |  <p>Deluxe suite \$500/day</p> |
|---|---|--|

5.5 BOOK NOW Page



The image shows a booking page for a vacation rental. At the top, there is a navigation bar with links for HOME, EXPLORE, ROOMS, CONTACT, and RECORD. To the right of the navigation is a search icon and a prominent blue "BOOK NOW" button. Below the navigation is a large, scenic photograph of a beach with palm trees and a wooden deck. Overlaid on the left side of the image is a white calendar for May 2021. The calendar shows days from Monday to Sunday, with May 1st highlighted in blue. A small "(< >)" icon is located at the top right of the calendar. To the right of the calendar is a booking form. The form includes fields for "CHECK IN" and "CHECK OUT" (both with empty input boxes), "NUMBER OF ADULTS" (with an empty input box), "Name" (with an empty input box), "Email" (with an empty input box), "No Phone" (with an empty input box), and "Room Number" (with an empty input box). At the bottom of the form is a green "BOOK" button.

HOME EXPLORE ROOMS CONTACT RECORD

BOOK NOW

May 2021

| MO | TU | WE | TH | FR | SA | SU |
|----|----|----|----|----|----|----|
| 31 | | 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 |

CHECK IN

CHECK OUT

NUMBER OF ADULTS

Name

Email

No Phone

Room Number

BOOK

5.6 BOOK Finish Page

HOME EXPLORE ROOMS CONTACT RECORD

BOOK NOW



Deluxe Suite 01

Your reservation
from 06 May 2021 to 07 May 2021
Mr. Ahmad b Ali
madali@gmail.com
+60 195555699

| | |
|----------------|--------------|
| Check in | 15:00pm |
| Check out | 12:00pm |
| Room | Deluxe Suite |
| | 2 Adults |
| Total | \$ 500 |
| Service charge | \$ 50.50 |
| TOTAL AMOUNT | \$ 550.50 |

Pay later
Full payment will be done at the hotel.

Cancellable, modifiable
This offer can be cancelled or modified free of charge until 04 May 2021, 15:00 (UTC+08:00).

[Change record](#)

5.7 RECORD Page For User

HOME EXPLORE ROOMS CONTACT RECORD

5.9 Search Page

The image shows a search interface for a hotel or vacation rental website. At the top, there is a navigation bar with links: HOME, EXPLORE, ROOMS, CONTACT, and RECORD. To the right of the navigation is a search icon (magnifying glass) and a large blue button labeled "BOOK NOW". Below the navigation is a banner featuring a scenic aerial view of a beach and ocean. Overlaid on the banner is a white text message: "WE MAKE OUR CUSTOMERS FEEL LIKE HOME IN OUR ROOMS BY GREAT SERVICES". A black rectangular overlay covers the middle portion of the page, containing search filters. The filters include:

- Price Range:** A slider with markers at \$300 and \$500.
- Dates:** Two dropdown menus showing "4/05/2021" and "5/05/2021".
- Sleeps:** A dropdown menu set to "4".
- Bedrooms:** A dropdown menu set to "2".

A small circular button with a plus sign is located below the sleeps and bedrooms fields. At the bottom of the overlay is a large blue button labeled "Search Now".

5.10 CONTACT Page

The screenshot shows a hotel's contact page with a navigation bar at the top featuring links for HOME, EXPLORE, ROOMS, CONTACT (which is underlined), and RECORD, along with a search icon and a 'BOOK NOW' button. The main content area has a large background image of a beach and ocean. Overlaid on this image is the text: 'WE MAKE OUR CUSTOMERS FEEL LIKE HOME IN OUR ROOMS BY GREAT SERVICES'. Below this, there is a section titled 'Contact Us' which includes a map showing the hotel's location near the Straits Quay Marina Mall and other landmarks. There are also sections for 'Address' (D'Luxe Hotel Straits Quay, Seri Tanjung Pinang, 10470 Tanjung Bungah, Penang) and 'Email' (dluxe@gmail.com).

6.0 References

Internet Booking Engines

<https://www.siteminder.com/r/technology/hotel-internet-booking-engines/requirements-hotel-reservations-system/>