

CECS 277 Project #3: The Beach Bungalows & Cottages

Due Week 10: Monday, October 28, 2019

Directions

Apply the Observer Design Pattern to build a solution to the following problem:

Design a program that allows the user to maintain the bookings of bungalows and cottages.

- I. The program must allow the user (front desk agent) to view/edit current bookings and create new bookings.
- II. If a guest requests a bungalow/cottage that is booked for the given night(s) or overlaps with another reservation, the front desk agent can add the guest to a waitlist.
- III. If a requested bungalow/cottage opens for availability, the first guest on the waitlist is sent a notification, giving the guest the option to book the establishment. If the guest declines, then the following guest in the waitlist is notified.
- IV. The available bungalows and cottages are as follows:

Bungalows

- Morning Glory (\$140 / night)
- The Shelly (\$110 / night)
- Dream Cove (\$160 / night)
- Pacific Pleasure(\$130 / night)
- Sunset Paradise (\$140 / night)

Cottages

- Perlita de Oro (\$265 / night)
- The Mermaid (\$250 / night)
- Poseidon's Lair (\$350 / night)

- V. Differences between bungalows and cottages:

Bungalows

- Can add a portable AC rental for \$20 / night.
- A deposit of 20% is due at time of booking.
- Deposit is fully refundable at time of cancellation, regardless of when cancellation is made.

Cottages

- Can add cable TV access for \$5 / night.
- A deposit of 50% is due at time of booking
- If a cancellation is made within 24 hours of the reservation, the deposit is forfeited.

Tester Requirements

Coming soon.

Submission Instructions

1. **Dropbox:** Each code file as a .txt or .rtf
2. **Hardcopy:** UML diagram & Grade Sheet
3. **Show During Demo:** Javadoc HTML pages