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UNIVERSITI
TEKNOLOGI
MARA

UNIVERSITI TEKNOLOGI MARA (UiTM) CAWANGAN KEDAH,

KAMPUS SUNGAI PETANI

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS [CDIM144]

PROGRAMMING FOR LIBRARIES (IML208)

INDIVIDUAL ASSIGNMENT:

HOLIDAY TRIP BOOKING SYSTEM

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PROJECT NAME: Holiday Trip Booking System

FILE NAME: HolidayTripBooking.py

PROMPT DATA:

- I. Name: yuyu, nana, jaja
- II. Number Phone: 0145104592, 015456700, 013567800
- III. Address: UiTM Kedah, KPTM Bangi, IIUM
- IV. Place: Redang Island, Perhentian Island, Hatyai Thailand, Phuket Thailand
- V. Price: RM200, RM250, RM350, RM400

FUNCTION:

- i. Create data

```
C:\Users\HP> cd C:\Users\HP\Documents\SEM 3\IML208 (SIR FIRDAUS) > HolidayTripBooking.py 2 ...
1 import datetime
2 import random
3
4 class Bookingsystem:
5     def __init__(self):
6         self.customers = []
7         self.room_numbers = []
8         self.customer_ids = []
9         self.package_prices = {
10             'REDANG ISLAND': 250,
11             'PERHENTIAN ISLAND': 300,
12             'HATYAI, THAILAND': 350,
13             'PHUKET, THAILAND': 450
14         }
15
16     def validate_date(self, date_str):
17         """Validates the date format."""
18         try:
19             datetime.datetime.strptime(date_str, '%d/%m/%Y')
20             return True
21         except ValueError:
22             return False
23
24     def date_difference(self, checkin, checkout):
25         """Returns the number of days between check-in and check-out."""
26         ci = datetime.datetime.strptime(checkin, '%d/%m/%Y')
27         co = datetime.datetime.strptime(checkout, '%d/%m/%Y')
28         return (co - ci).days
29
30     def is_valid_checkout(self, checkin, checkout):
31         """Checks if check-out is after check-in."""
32         return self.date_difference(checkin, checkout) > 0
33
34     def generate_unique_room_and_id(self):
35         """Generate a unique room number and customer ID."""
36         while True:
37             room_number = random.randint(100, 350)
```

- ii. Read Data

```
PS C:\Users\HP> & C:\Users\HP\AppData\Local\Programs\Python\Python313\python.exe "c:/Users/HP/Documents/SEM 3/IML208 (SIR FIRDAUS)/HolidayTripBooking.py"
WELCOME TO PORORO TRAVEL
1. Book a Package
2. Show Records
3. Update Record
4. Delete Existence Data
0. Exit
Choose an option:
```

iii. Update Data

```
130
131 def update_record(self):
132     """Update a customer record based on their phone number."""
133     phone = input("Enter the phone number of the customer to update: ")
134     customer_to_update = next((cust for cust in self.customers if cust['phone'] == phone), None)
135
136     if customer_to_update:
137         print(f"--- Current details for {customer_to_update['name']} ---")
138         print(f"Name: {customer_to_update['name']}")
139         print(f"Phone: {customer_to_update['phone']}")
140         print(f"Address: {customer_to_update['address']}")
141         print(f"Check-In: {customer_to_update['checkin']}")
142         print(f"Check-Out: {customer_to_update['checkout']}")
143         print(f"Room Type: {customer_to_update['room_type']}")
144         print(f"Total Price: RM {customer_to_update['price'] * customer_to_update['days']}")
145
146         print("\n--- Update Fields ---")
147         name = input(f"Enter new name (current: {customer_to_update['name']}): ") or customer_to_update['name']
148         phone = input(f"Enter new phone number (current: {customer_to_update['phone']}): ") or customer_to_update['phone']
149         address = input(f"Enter new address (current: {customer_to_update['address']}): ") or customer_to_update['address']
150         checkin = input(f"Enter new check-in date (current: {customer_to_update['checkin']}): ") or customer_to_update['checkin']
151         checkout = input(f"Enter new check-out date (current: {customer_to_update['checkout']}): ") or customer_to_update['checkout']
152         room_type = input(f"Enter new room type (current: {customer_to_update['room_type']}): ") or customer_to_update['room_type']
153
154         # validate new dates
```

iv. Delete Existing Data

```
4. Delete Existence Data
0. Exit
Choose an option: 1
---- Booking New Package ----
Enter name: Yuyu
Enter phone number: 0145104592
Enter address: UTM Kedah
Enter Check-In date (dd/mm/yyyy): 12/12/2024
Enter Check-Out date (dd/mm/yyyy): 14/12/2024
----SELECT PACKAGE TYPE----
1. REDANG ISLAND
2. PERhentian ISLAND
3. HATYAI, THAILAND
4. PHUKET, THAILAND
Choose a package: 1

Booking successful!
Room Number: 315
Customer ID: 39

WELCOME TO PORORO TRAVEL

1. Book a Package
2. Show Records
3. Update Record
4. Delete Existence Data
0. Exit
Choose an option: 4
Enter the phone number of the customer to delete: 0145104592

Booking deleted successfully!
```

CONDITIONAL STATEMENT: YES

1.

```
80 print('4. MONEY, THAILAND')
81
82 # Select package
83 package_choice = int(input("Choose a package: "))
84 if package_choice == 1:
85     room_type = 'REDANG ISLAND'
86     price = 250
87 elif package_choice == 2:
88     room_type = 'PERHENTIAN ISLAND'
89     price = 300
90 elif package_choice == 3:
91     room_type = 'HATYAI, THAILAND'
92     price = 350
93 elif package_choice == 4:
94     room_type = 'PHUKET, THAILAND'
95     price = 450
96 else:
97     print("Invalid choice, please try again.")
98     return # Restart booking if the choice is invalid
99
```

2.

```
200
201 if choice == 1:
202     booking_system.book_package()
203 elif choice == 2:
204     booking_system.show_records()
205 elif choice == 3:
206     booking_system.update_record()
207 elif choice == 4:
208     booking_system.delete_record()
209 elif choice == 0:
210     print("Thank you for using Pororo Travell!")
211     break
212 else:
213     print("Invalid choice, please try again.")
214
```

GUI: No

RESULT:

```
Enter phone number: 0145104592
Enter address: IIUM
Enter Check-In date (dd/mm/yyyy): 12/12/2024
Enter Check-Out date (dd/mm/yyyy): 16/12/2024
----SELECT PACKAGE TYPE----
1. REDANG ISLAND
2. PERHENTIAN ISLAND
3. HATYAI, THAILAND
4. PHUKET, THAILAND
Choose a package: 4

Booking successful!
Room Number: 318
Customer ID: 35

                                WELCOME TO PORORO TRAVEL

1. Book a Package
2. Show Records
3. Update Record
4. Delete Existence Data
0. Exit
Choose an option: 2

--- Booking Records ---

Name: yuyu
Phone: 0145104592
Address: IIUM
Check-In: 12/12/2024, Check-Out: 16/12/2024
Room Type: PHUKET, THAILAND
Total Price: RM 1800
```

STRENGTH:

1. The system is 24 hours available
2. The price will calculate automatically by nights that you check in
3. Getting your booking id directly after finish booking

KAIZEN:

1. Provide more detail about place that in list
2. Provide more payment method
3. Provide the number of the travel agency to customer so they can ask directly if has a concern.

REFERENCES

- Hotel Management Project in Python*. (2 December , 2022). Retrieved from geekforgeeks: <https://www.geeksforgeeks.org/hotel-management-project-in-python/>
- Villanueva, J. (14 July, 2024). *Hotel Management System Project in Python with Free Source Code*. Retrieved from Medium: <https://medium.com/@pies052022/hotel-management-system-project-in-python-with-free-source-code-d77a475d8321>