

DOMAIN MODELING AND CLASS MODELING


CUSTOMIZED TOURISM PACKAGE MANAGEMENT SYSTEM

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DOMAIN MODELING

CASE STUDY:

 Customized tourism package selection system

FINDING CLASSES:

- Tourist
- Individual
- Group
- Package Selection
- Admin
- Mode of payment
- Customer- Guide and Agent
- Verification
- Discount
- Travel
- Reservation
- Hotel
- Rating
- Transport
- Food
- Cancellation
- Payment
- Transaction
- Feedback
- Enquiry
- Issues
- Location

REFINING CLASSES:

GOOD CLASSES:

- Tourist
- Individual
- Group
- Package Selection
- Admin
- Customer- Guide and Agent
- Verification
- Travel
- Reservation
- Hotel
- Cancellation
- Payment
- Transaction
- Feedback
- Enquiry
- Issues

BAD CLASSES:

- Transport
- Food

ATTRIBUTES:

- Location
- Discount
- Rating
- Mode of payment

DATA DICTIONARY:

- **Tourist**
 - One who selects and reserves the packages.
- **Package Selection**
 - Here packages selection can be made by the tourist.
- **Admin**
 - One who maintains the tourist's database.
- **Customer- Guide and Coordinator**
 - The one who coordinates the travel – coordinator
 - The one who guides the tourist - Guide
- **Verification**
 - Here the customer details and payments made by the tourist are verified.
- **Reservation**
 - Here the tour reservations are made.
- **Cancellation**
 - Here a tourist can cancel a reserved package and request for refund.
- **Payment**
 - Payment can be made for the selected package.
- **Feedback**
 - Here customer can give feedback.
- **Enquiry**
 - Here tourist can enquire about the travel.

ATTRIBUTES OF CLASSES:

- **Tourist**
 - Name
 - Email
 - Password
 - Age
 - Phone Number
 - User Id

- **Individual**
 - Tourist Id
 - Phone Number
 - Address
 - No of people
 - Premium
- **Group**
 - ID
 - Phone number
 - Address
 - No of people
 - Premium
 - Organization name
 - Organization Type
- **Package Selection**
 - ID
 - Name
 - Location
 - Price
 - Availability
 - Type
- **Admin**
 - ID
 - Name
 - Password
- **Customer- Guide and Coordinator**
 - ID
 - Name
 - Availability
 - Location
 - Phone number
- **Verification**
 - ID
 - Status
- **Travel**
 - ID

- Agency Name
 - No of vehicles
 - Availability
 - Location
 - Contact
- **Reservation**
 - ID
 - Status
 - Schedule
 - Premium discount
 - Reservation travel
 - Reservation hotel
 - Reservation package
- **Hotel**
 - ID
 - Name
 - Location
 - Address
 - Accommodation
 - Contact
- **Cancellation**
 - Refund ID
 - Refund account ID
 - Refund Description
 - Eligibility
 - Applied Date
- **Payment**
 - ID
 - Date
 - Type
 - Description
 - Account ID
- **Transaction**
 - ID
 - Date
 - Amount

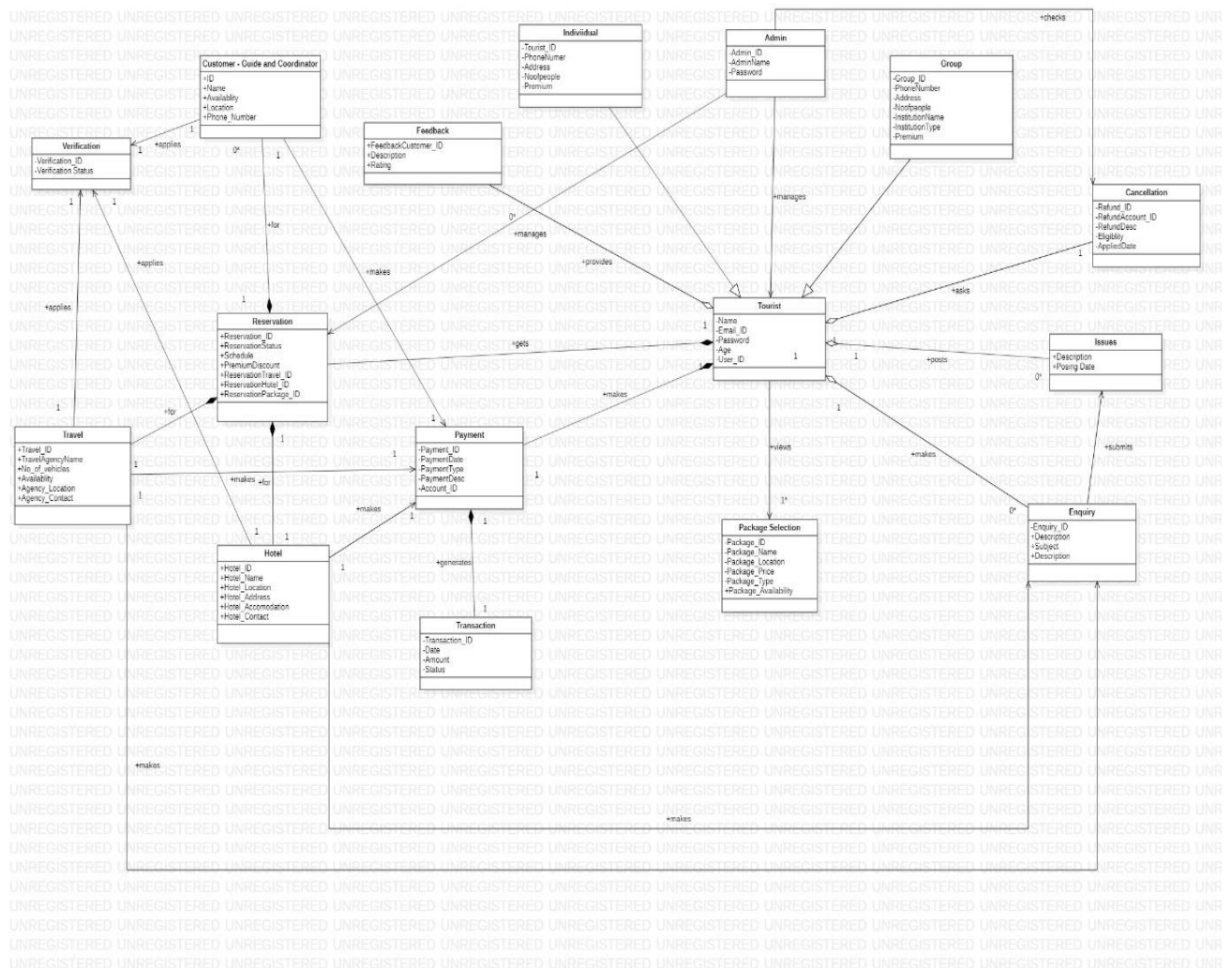
- Status
- **Feedback**
 - Feedback Customer ID
 - Rating
 - Description
- **Enquiry**
 - ID
 - Description
 - Subject
- **Issues**
 - Description
 - Posting Date

ASSOCIATIONS AND MULTIPLICITY:

CLASS A	ASSOCIATION	CLASS B	MULTIPLICITY
Travel	Applies	Verification	1-1
Travel	For (composition)	Reservation	-
Travel	Makes	Payment	1-1
Hotel	Applies	Verification	1-1
Hotel	For (composition)	Reservation	1-1
Transaction	Generates	Payment	1-1
Customer - Guide and Coordinator	For (composition)	Reservation	0..*-1
Customer - Guide and Coordinator	Makes	Payment	1-1
Customer - Guide and Coordinator	Applies	Verification	1-1
Tourist	views	Package selection	1-1..*

Admin	Manages	Reservation	1-1..*
Payment	Makes (composition)	Tourist	1-1
Reservation	Gets	Tourist	1-1
Feedback	Provides (aggregation)	Tourist	0..*-1
Cancellation	Asks (aggregation)	Tourist	1-1
Issues	Posts	Tourist	0..*-1
Enquiry	Makes (aggregation)	Tourist	0..*-1
Travel	Makes	Enquiry	1-1
Hotel	Makes	Enquiry	1-1
Individual	Generalization	Tourist	-
Group	Generalization	Tourist	-

DOMAIN MODEL DIAGRAM:



BRIEF DESCRIPTION:

Tourist selects packages and reserves it. The reservation is done for hotel and travel and also selected package can be confirmed. Tourist can make the payment for the reserved packages. The tourist can be an individual or organization. The tourist can enquire about a particular travel. They can also cancel selected package and get refund for the cancelled package. The customers can give their feedback about the travel.

CLASS MODELING

OPERATIONS IN CLASSES:

CLASS	OPERATIONS
Verification	checkVerification()
Travel	getTravelAgencyName() checkAvailability() getAgencyLocation()
Customer - Guide and Coordinator	getName() checkAvailability() getContact()
Reservation	getReservationStatus() getSchedule() getPremiumDiscount() makeReservation() cancelReservation()
Package Selection	getPackageID() getPackageName() getPackageLocation() getPackagePrice() changePackageContents() getPackageAvailability()

Hotel	getHotelID() getHotelName() getHotelLocation() checkHotelAccommodation() getHotelContact()
Admin	addUser() deleteUser() updateDatabase()
Tourist	viewTouristDetails() getName() setPassword(in String Password) getPhoneNumber() setName() getAge() deleteAccount()
Individual	getTouristID() getPhoneNumber() setPhoneNumber(in int PhoneNumber) getAddress() setAddress(in String Address) setNoofpeople(in int Noofpeople) getNoofpeople()
Group	getGroupID() getPhoneNumber() setPhoneNumber(in int

	PhoneNumber) getAddress() setAddress(in String Address) setNoofpeople(in int Noofpeople) getNoofpeople() setInstitutionName(in String Name) getInstitutionName() setInstitutionType(in String Type) getInstitutionType()
Feedback	addFeedback() addRating()
Payment	makePayment() searchPayment() getPaymentID() getPaymentDate()
Transaction	getTransactionDetails() getAmount() getStatus()
Enquiry	addEnquiry() deleteEnquiry()
Issues	postIssues() deleteIssues()
Cancellation	requestRefund() checkEligibility()

CLASS MODEL DIAGRAM:

