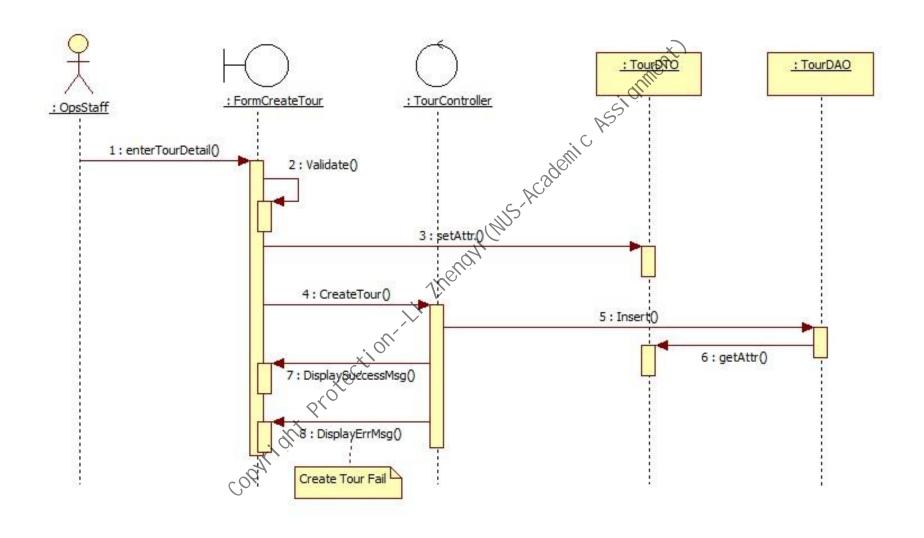
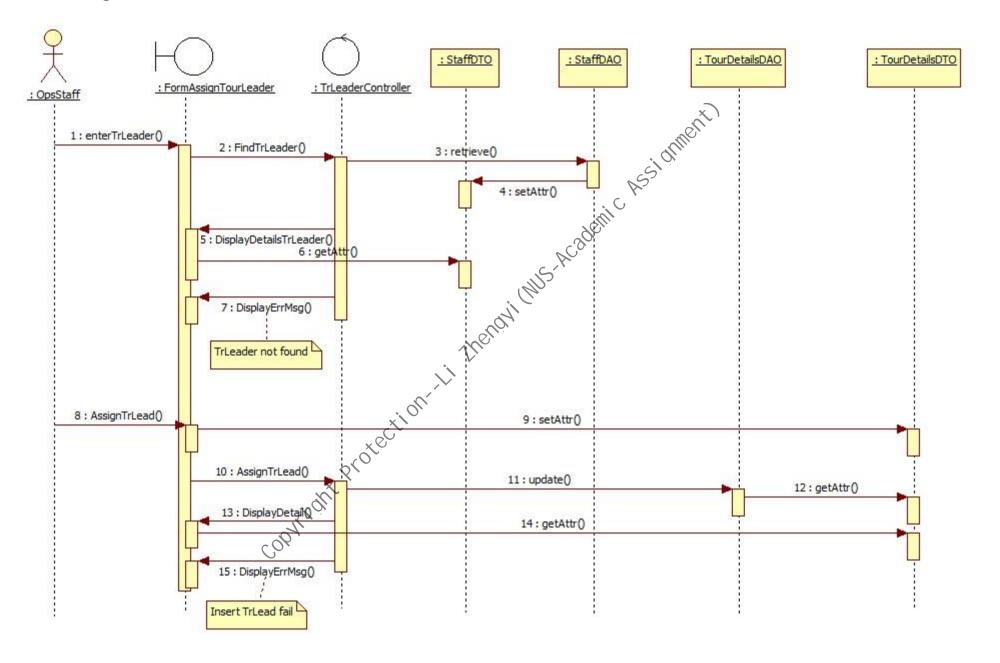
# Software Analysis & Design Part 2 CANSubmission Team 12 Team 12 Tream 12

Group members:

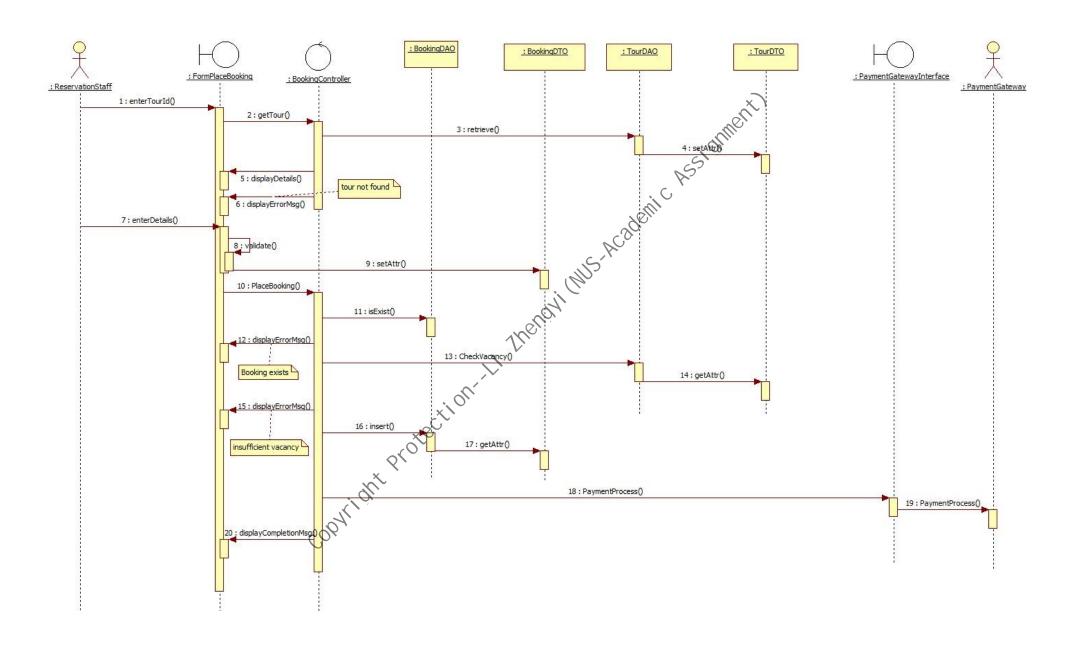
Li Zhengyi Liou Cheng Xiang Sivakumar Jayachelvi Nivvya Stephanie Cheng Thant Htet Myet Wang Wang Wang



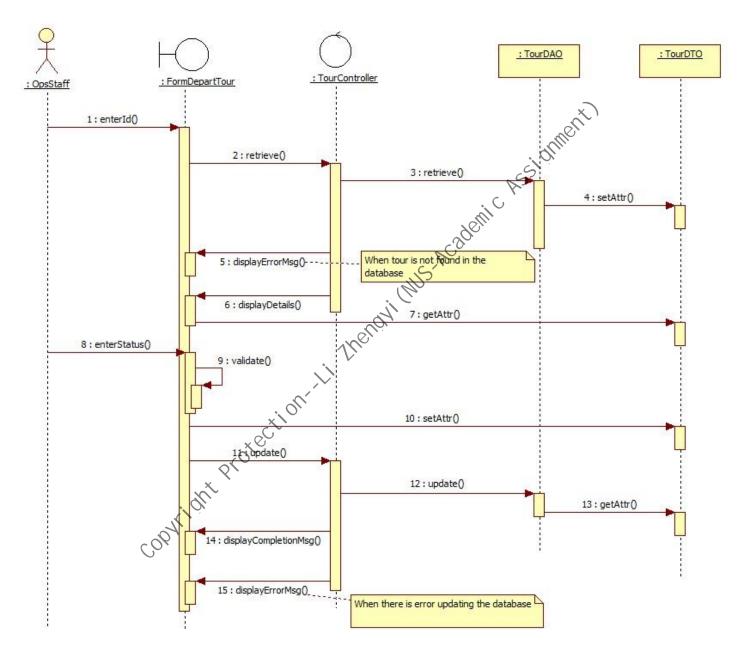
## Sequence diagram – Assign Tour Leader

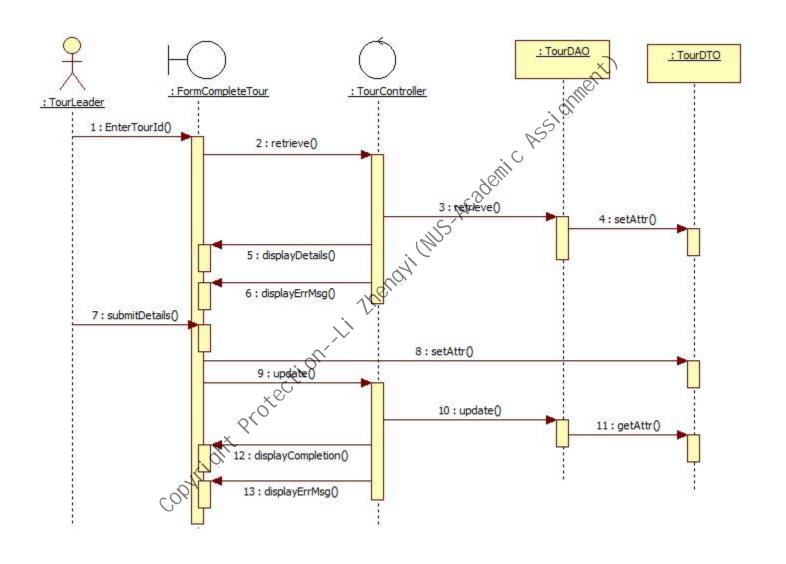


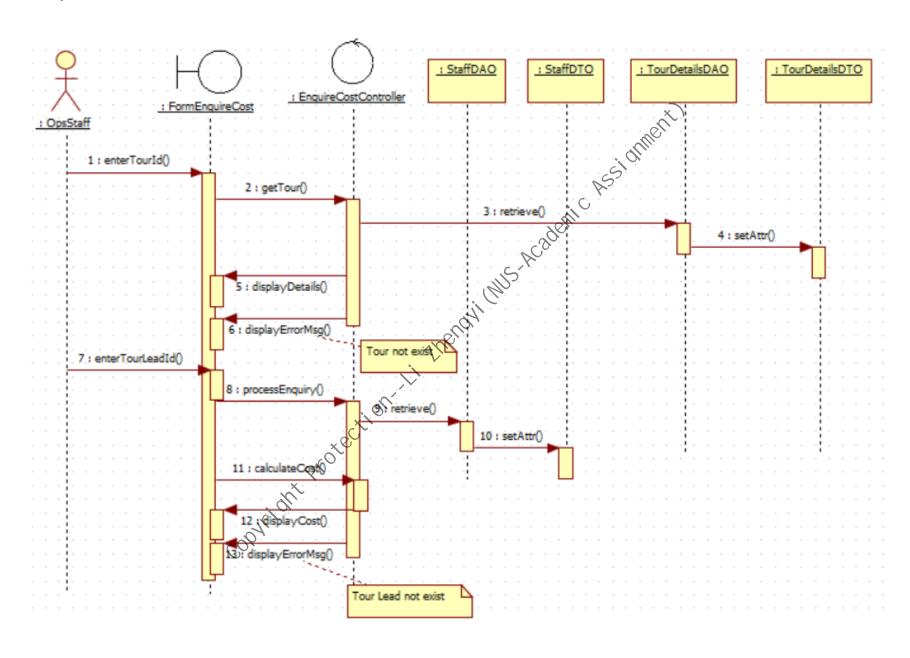
### Sequence diagram – Place Booking



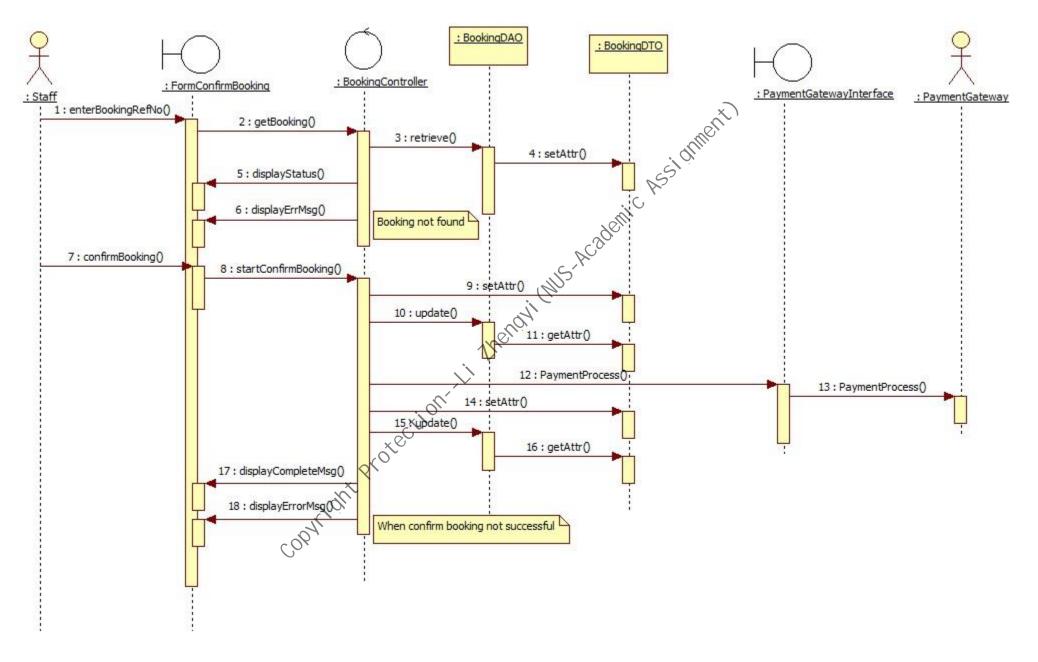
### Sequence diagram – Depart Tour



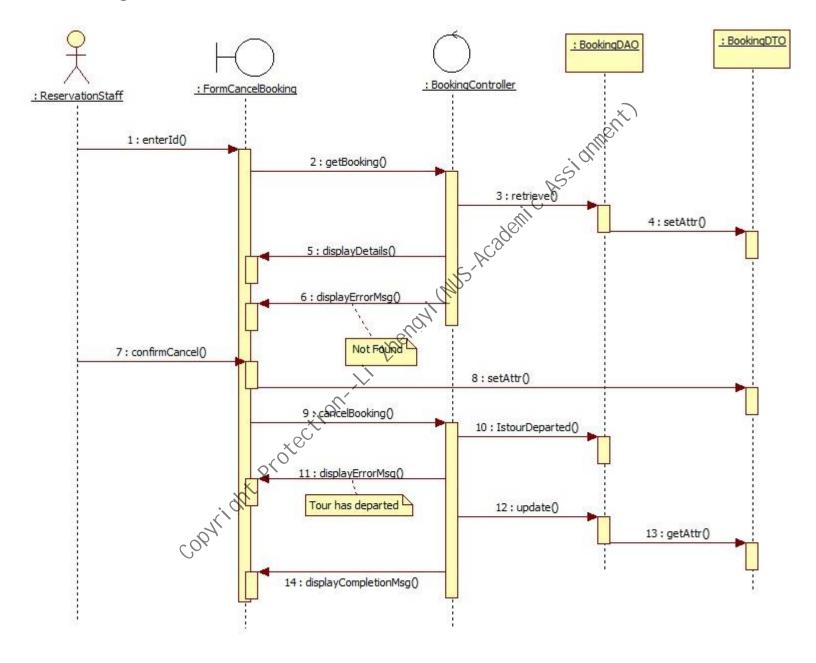


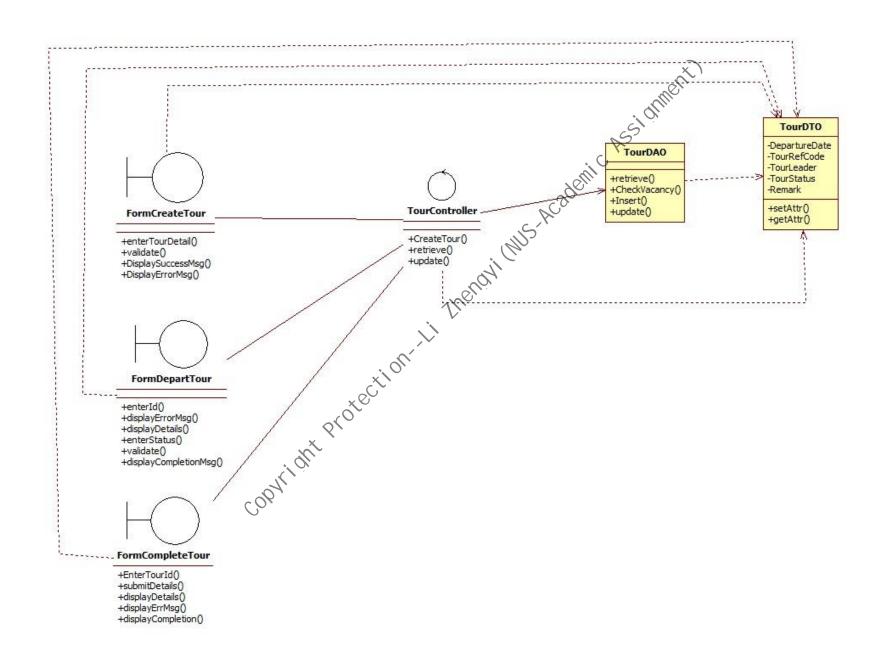


### Sequence diagram – Confirm Booking

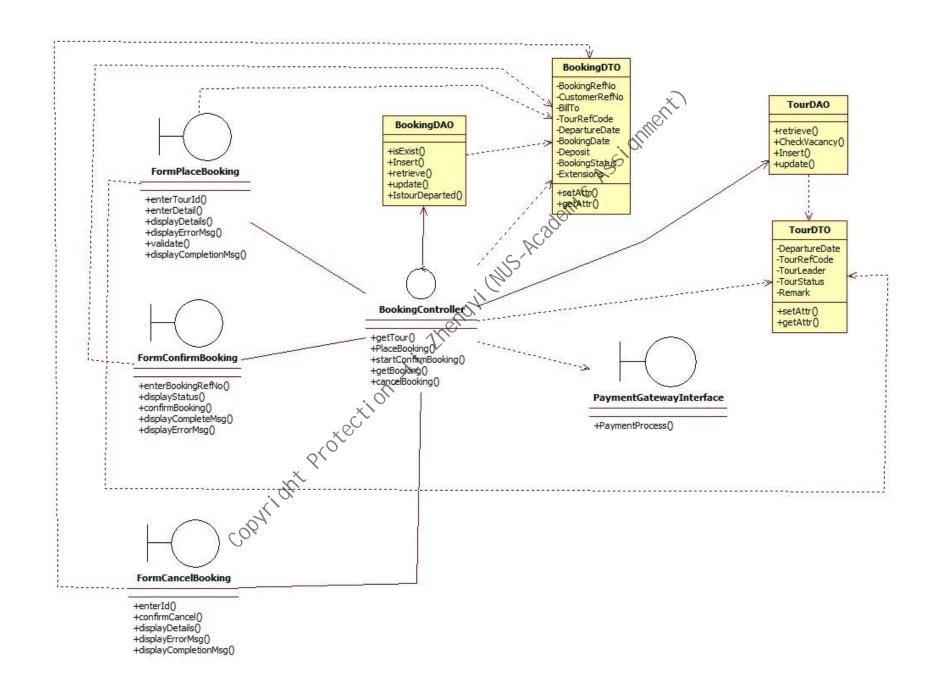


### Sequence diagram – Cancel Booking

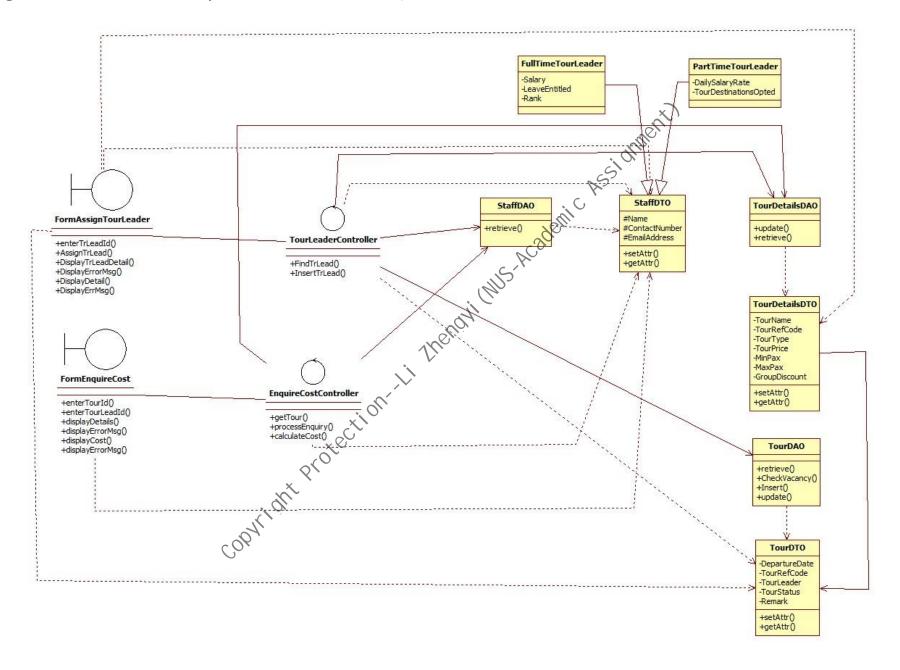


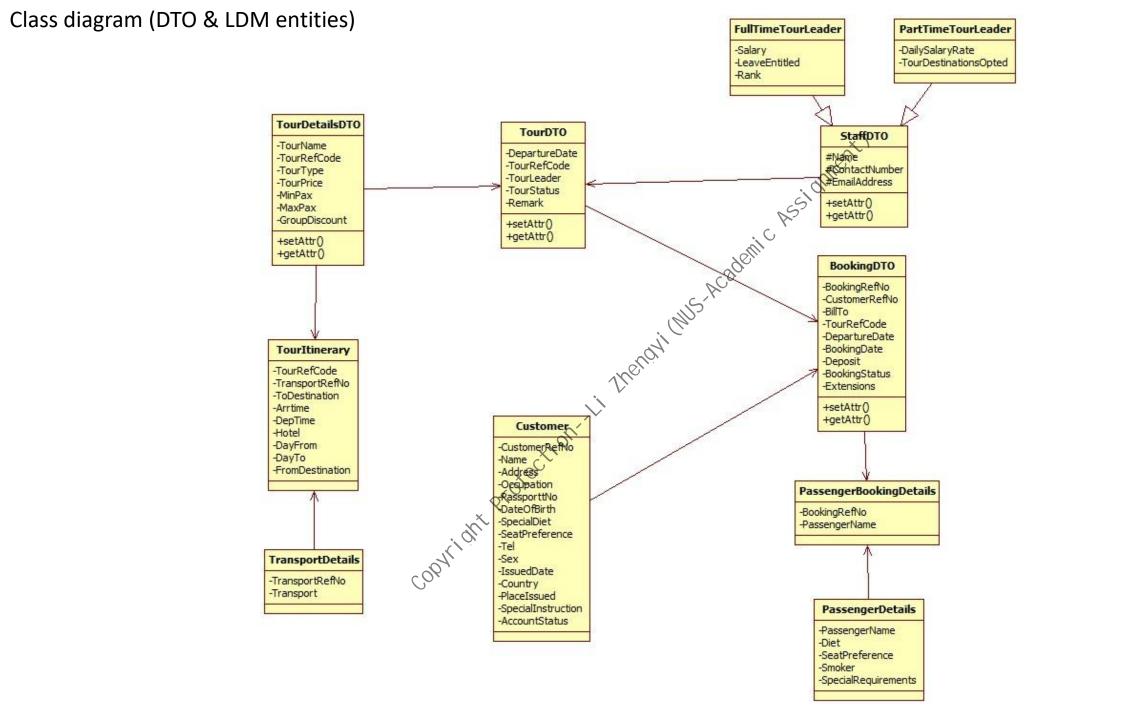


Class diagram (Place Booking, Confirm Booking & Cancel Booking)

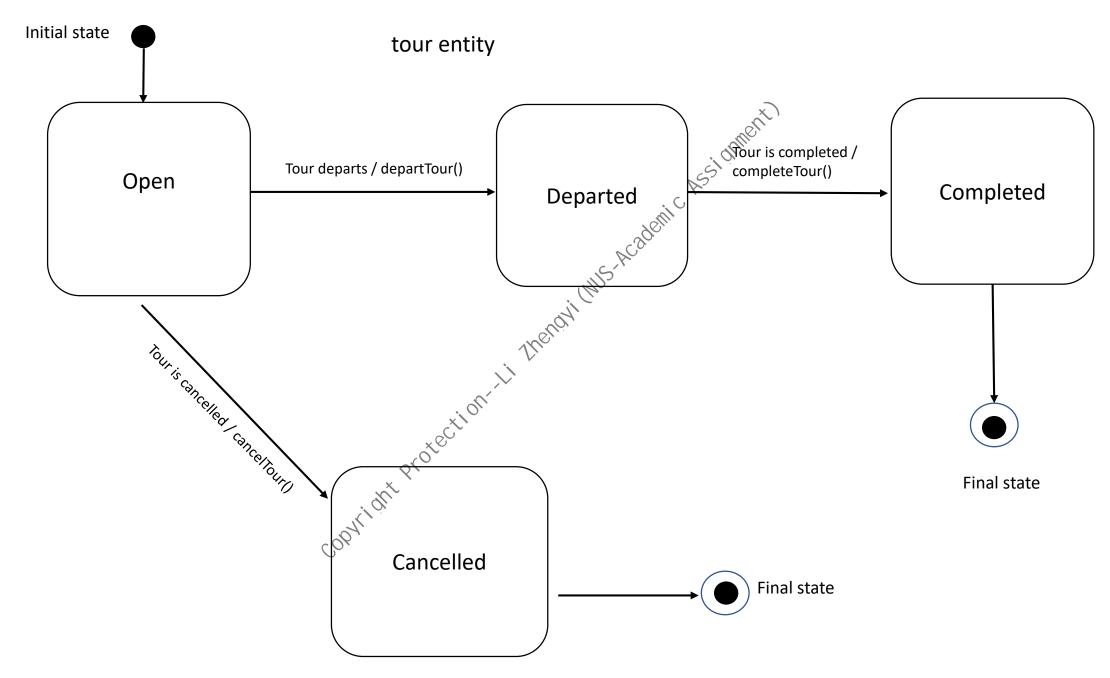


Class diagram (Assign Tour Leader & Enquire Tour Lead Cost)

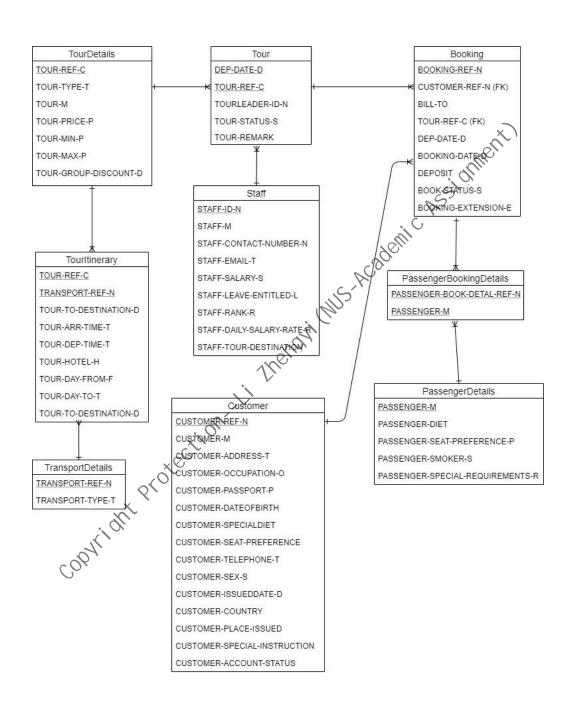




# StateChart diagram (Tour object)



### Logical Data Model



# **Data Dictionary**

Entity	Attribute	Attribute Name	Туре	Length	Definitions and Business Rules
TOURDETAILS	TourName	TOUR-M	Α	30	Name of tour, including number of days and location.
	<u>TourRefCode</u>	TOUR-REF-C	Α	4	Reference code for tour detail. Unique for each tour detail.
	TourType	TOUR-TYPE-T	Α	10	Tour type (First Class, Business, Economy)
	TourPrice	TOUR-PRICE-P	N	5.2	Price of the tour for each person (in the form of 99999.99)
	MinPax	TOUR-MIN-P	N	2	Minimum pax required for tour to be confirmed (in the form of 99)
	MaxPax	TOUR-MAX-P	N	2	Maximum pax allowed for tour (in the form of 99)
	GroupDiscount	TOUR-GROUP-DISCOUNT-D	N	2	Group discount percentage for this tour (in the form of 99%)
					ani
	<u>TourRefCode</u>	TOUR-REF-C	Α	4 ~	Reference code for tour detail. Unique for each tour detail.
	FromDestination	TOUR-FROM-DESTINATION-D	Α	15/	Country that the tour will be leaving from.
TOURITIENERARY	ToDestination	TOUR-TO-DESTINATION-D	Α	115	Country that the tour will arrive in.
	<u>TransportRefNo</u>	RefNo TRANSPORT-REF-N	Aj	10	Reference code for the transport taken. Unique for each flight, or
					coach or train.
	Arrtime	TOUR-ARR-TIME-T	Ň	4	Time the tour will arrive at their destination (in the form of 9999)
	DepTime	TOUR-DEP-TIME-T	N	4	Time the tour will depart from their location (in the form of 9999)
	Hotel	TOUR-HOTEL-H	Α	30	Name of the hotel the tour will be staying in.
	DayFrom	TOUR-DAY-FROM-F		,	The xth number of day in the tour that the tour will be departing from
		×i <sup>O</sup>	N		(in the form of 99)
	DayTo	TOUR-DAY-TO-T	N	, ,	The xth number of day in the tour that the tour will be arriving in (in
					the form of 99)

# **Data Dictionary**

Entity	Attribute	Attribute Name	Туре	Length	Definitions and Business Rules
TOUR	<u>TourRefCode</u>	TOUR-REF-C	Α	4	Reference code for tour detail. Unique for each tour detail.
	<u>DepartureDate</u>	DEP-DATE-D	D	8	Date that tour will depart on (DDMMYYYY)
	TourLeader-id	TOURLEADER-ID-N	N	6	Tour Leader ID in the company. Unique for each tour leader.
	TourStatus	TOUR-STATUS-S	Α	10	Status of tour (Open, Departed, Completed)
	Remark	TOUR-REMARK	Α	100	Short remark that tour leader enter after completing tour.
					NS,
PASSENGERBOOKINGDETAILS	<u>RefNo</u>	PASSENGER-BOOK-DETAL- REF-N	А	8	Reference code for a booking. Unique for each booking
	<u>PassengerName</u>	PASSENGER-M	Α	50.00	Passenger Name (Full name, start with surname)
				, Ale	
	Customer Ref No:	CUSTOMER-REF-N	Α ,	/// <sup>5</sup> 6	Customer Reference number. Unique for each cutomer
	Name	CUSTOMER-M	Α:	50	Customer Name (Full name, start with surname)
	Address	CUSTOMER-ADDRESS-T	A	60	Address of each customer
	Occupation	CUSTOMER-OCCUPATION-O	© Å	30	Occupation of each customer
	PassportNo	CUSTOMER-PASSPORT-P	A	9	Passport Number of each customer. Unique for each customer
	DateOfBirth	CUSTOMER-DATEOFBIRTH	D	8	Customer Date of Birth (DDMMYYY)
	SpecialDiet	CUSTOMER-SPECIAL DIÉT	Α	50	Short description of special diet request
CUCTOMER	SeatPreference	CUSTOMER-SEAT PREFERENCE	А	8	The seat that the customer prefers (Aisle, Window, Bassinet)
CUSTOMER	Tel	CUSTOMER-TELEPHONE-T	N	8	Customer contact phone number (in the form of 99999999)
	Sex	CUSTOMER-SEX-S	Α	1	Customer gender (M, F)
	IssuedDate	CUSTOMER-ISSUEDDATE-D	D	8	Date that the passport was issued (DDMMYYYY)
	Country	CUSTOMER-COUNTRY	Α	15	Country of the passport.
	PlaceIssued	CUSTOMER-PLACE-ISSUED	Α	15	Country the passport was issued in.
	SpecialInstruction SpecialInstru	CUSTOMER-SPECIAL- INSTRUCTION	А	50	Any special instructions from the customer regarding the flight or hotel.
	AccountStatus	CUSTOMER-ACCOUNT- STATUS	А	1	Customer's ranking (A, B, C)

Entity	Attribute	Attribute Name	Туре	Length	Definitions and Business Rules
PASSENGERDETAILS	<u>PassengerName</u>	PASSENGER-M	Α	30	Passenger Name (Full name, start with surname)
	Diet	PASSENGER-DIET	Α	10	Any det requirements (Vegetarian, Vegan, Halal)
	SeatPreference	PASSENGER-SEAT-PREFERENCE-P	Α	8	The seat that the passenger prefers (Aisle, Window, Bassinet)
	Smoker	PASSENGER-SMOKER-S	Α	1 🛕	indicate whether passenger a smoker. (Y, N)
	SpecialRequirements	PASSENGER-SPECIAL- REQUIREMENTS-R	Α	Ve0	Short description of passenger's special requirements.
			Ulla	P	
	<u>StaffID</u>	STAFF-ID-N	A	6	Tour Leader ID in the company. Unique for each tour leader.
	StaffType	STAFF-TYPE-T	A	10	The employment type of staff (Full time or part time)
	Name	STAFF-M	Α	20	Staff name of the tour company
	ContactNumber	STAFF-CONTACT-NUMBER-N	N	8	Contact number of staff (in the form of 99999999)
STAFF	EmailAddress	STAFF-EMAIL-T	Α	20	Email address of staff
SIAFF	Salary	STAFF-SALARY-S	N	10	The salary of full time staff
	LeaveEntitled	STAFF-LEAVE-ENTITLED-L	N	2	Number of leave days the staff is entitled to (in the form of 99)
	Rank	STAFF-RANK-R	Α	2	The rank of the staff (M1, M2, M3)
	DailySalaryRate	STAFF-DAILY SÄLARY-RATE-R	N	3.2	Daily Salary Rate of part time tour leaders (in the form of 999.99)
	TourDestinationsOpted	STAFF-TOUR-DESTINATION	Α	30	Countries that the part time staff are willing to lead the tour in.