

The Scenario

ABC Travel is currently in the business of renting cars and apartments and has two applications that were developed to handle these two business processes: a Car Reservation application and an Apartment Reservation application. As would be the case in many real-life situations, these applications were developed separately by two different teams of developers.

A Car Reservation Application

The Car Reservation application is an example of a typically constructed application. Very simple, consisting of three main items:

- A Car Reservation
- A Customer
- A Car

Each of these items has associated attributes. A Car Reservation has an associated customer, car, reservation dates, car mileage options, and reference number. A customer has a first name, last name, date of birth, contact information (such as address, city, state, zip code, country, and phone number), and reference number. A Car has a make, model, engine size and color, number of seats, number of doors, daily rate, and reference number.

An Apartment Reservation Application

The second application we're looking at is an Apartment Reservation application. This application is also very simple and consists of four main items:

- An Apartment Reservation
- A Customer
- A Resort
- An Apartment

Each of these items has associated attributes. An Apartment Reservation has an associated customer, apartment, reservation dates, and reference number. A Customer has a first name, last name, marital status, contact information (such as address, city, state, zip code, country, and phone number), and reference number. A Resort has a name, location, a number of associated apartments, and reference number. An Apartment has a number, capacity, daily rate, and reference number.

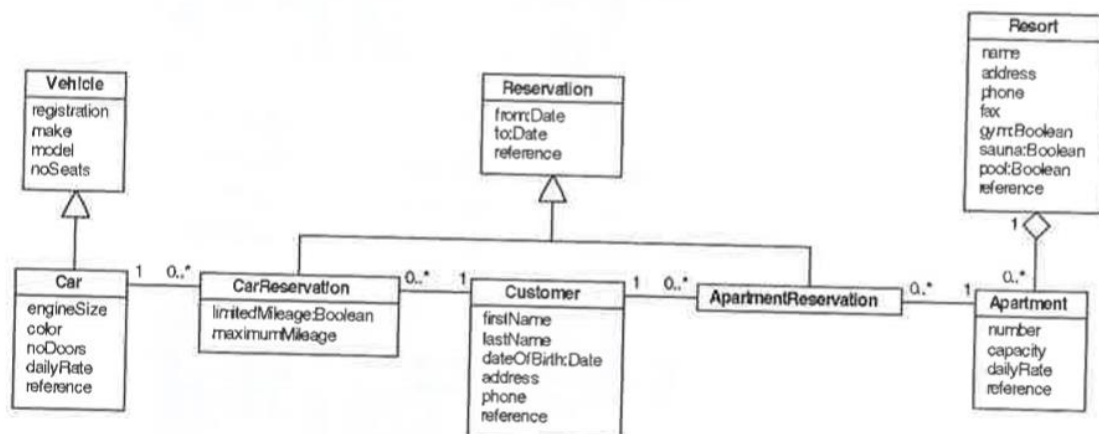
The definition of Customer is different from that defined in the Car Reservation application (this difference allows us to demonstrate one of the issues)

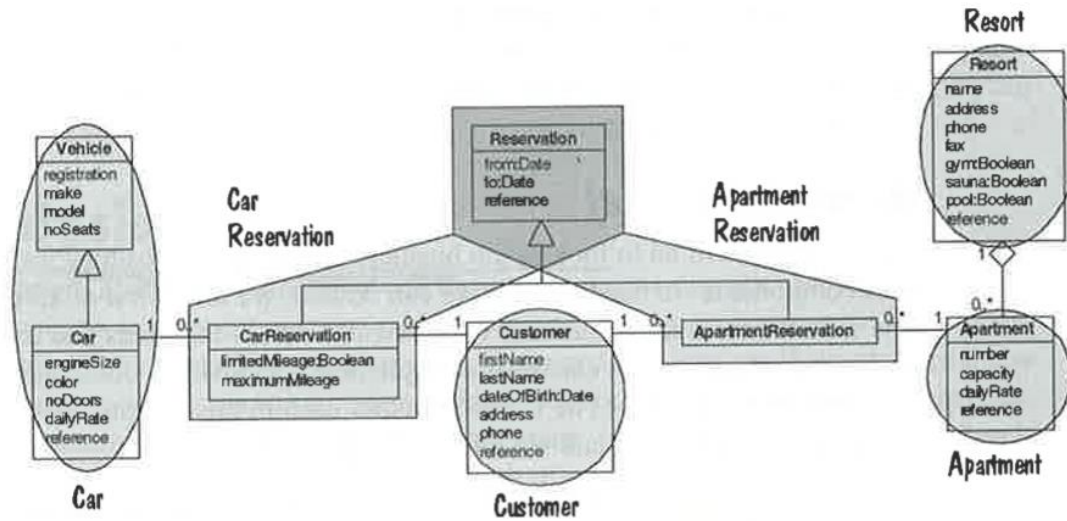
Capturing Requirements

Requirements capture is the starting point for any software development. During this stage, we formulate a picture of the problem domain in terms of the business concepts that it must support. The figure below shows the business concepts identified in ABC Travel's problem domain. (Although we haven't used it here, a technique known as Use Cases is supported in UML; it's an excellent starting point for capturing requirements [Jacobson92].)



Analysis Model





Old screen shots

Car Reservation Form - Dates tab

From: 4 Nov 1997

To: 4 Nov 1997

Create Cancel

Car Reservation Form - Car tab

Create Cancel

Car Browser

Make: Ford

Model:

Car	Registration	Daily Rate	Seating	Doors
Ford Escort	376 DJF	50	4	4
Ford Escort	275 SFR	50	4	4
Ford Escort	789 HJK	50	4	4
Ford Escort	789 IZA	50	4	4
Ford Escort	456 EFG	50	4	4
Ford Escort	123 LMN	50	4	4
Ford Escort	906 DSD	50	4	4

26 object(s) found

Car Reservation Form - Mileage Options tab

Create Cancel

Customer Browser

First Name:

Last Name: Brown

Customer	Full Address	Phone
Brown, Christopher	245 Jefferson Street, New York, New York	645 71
Brown, Daniel	245 Olympia Avenue, Phoenix, Arizona	954 4
Brown, David	543 South Side, Denver, Colorado	245 6
Brown, John	354 North Side, Austin, Texas	488 98
Brown, Thomas	224 Miami Street, Sacramento, California	543 6

5 object(s) found

Car Reservation Form - Limited Mileage

Maximum Mileage: 250

Create Cancel

ABC-100 Reference: ABC-100

From: 4 Sep 1998

To: 4 Nov 1998

OK Cancel Apply

Apartment Reservation Form - Dates tab

From: 4 Nov 1997

To: 4 Nov 1997

Create Cancel

Apartment Reservation Form - Apartment tab

Create Cancel

Resort Browser

Contact Details

City:

State:

Country:

Resort	Full Address	Ph
Buganville	Don Carlos Complex, Gran Canaria, C...	32
Club Tropicana	Zodiac Complex, Benalmadena, Cost...	43
Dasis Apartments	Seville Complex, Lloret de Mar, Costa...	43
Parque de la Paz	Castile Complex, Tenerife, Canary Isla...	54
Puerto Plata	Valencia Complex, Gran Canaria, Can...	23
Sol Elite Apartments	Phoenix Complex, Pamplona, Navarra...	23
Sun Park	Fuerteventura Complex, Lanzarote, C...	23

7 object(s) found

Club Tropicana

Reference: ABC-0

General | Contact Details | Facilities | Apartments

Name:

Club Tropicana

Reference: ABC-0

General | Contact Details | Facilities | Apartments

Apartment	Capacity	Daily Rate
1 Club Tropicana	2	40
2 Club Tropicana	3	50
3 Club Tropicana	4	60
4 Club Tropicana	5	70
5 Club Tropicana	6	80

ABC-100

Reference: ABC-100

Dates | Apartment | Customer

From:

To: