

State

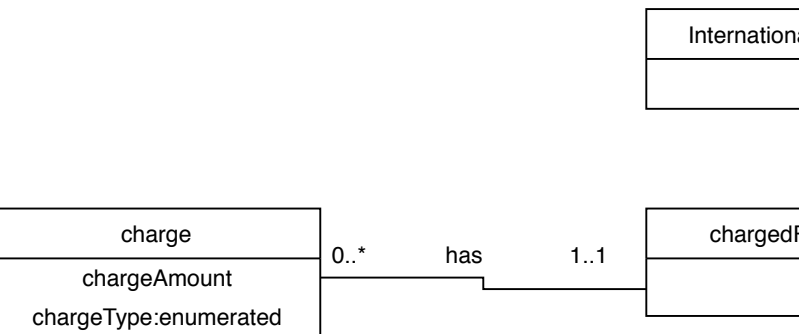
State Name

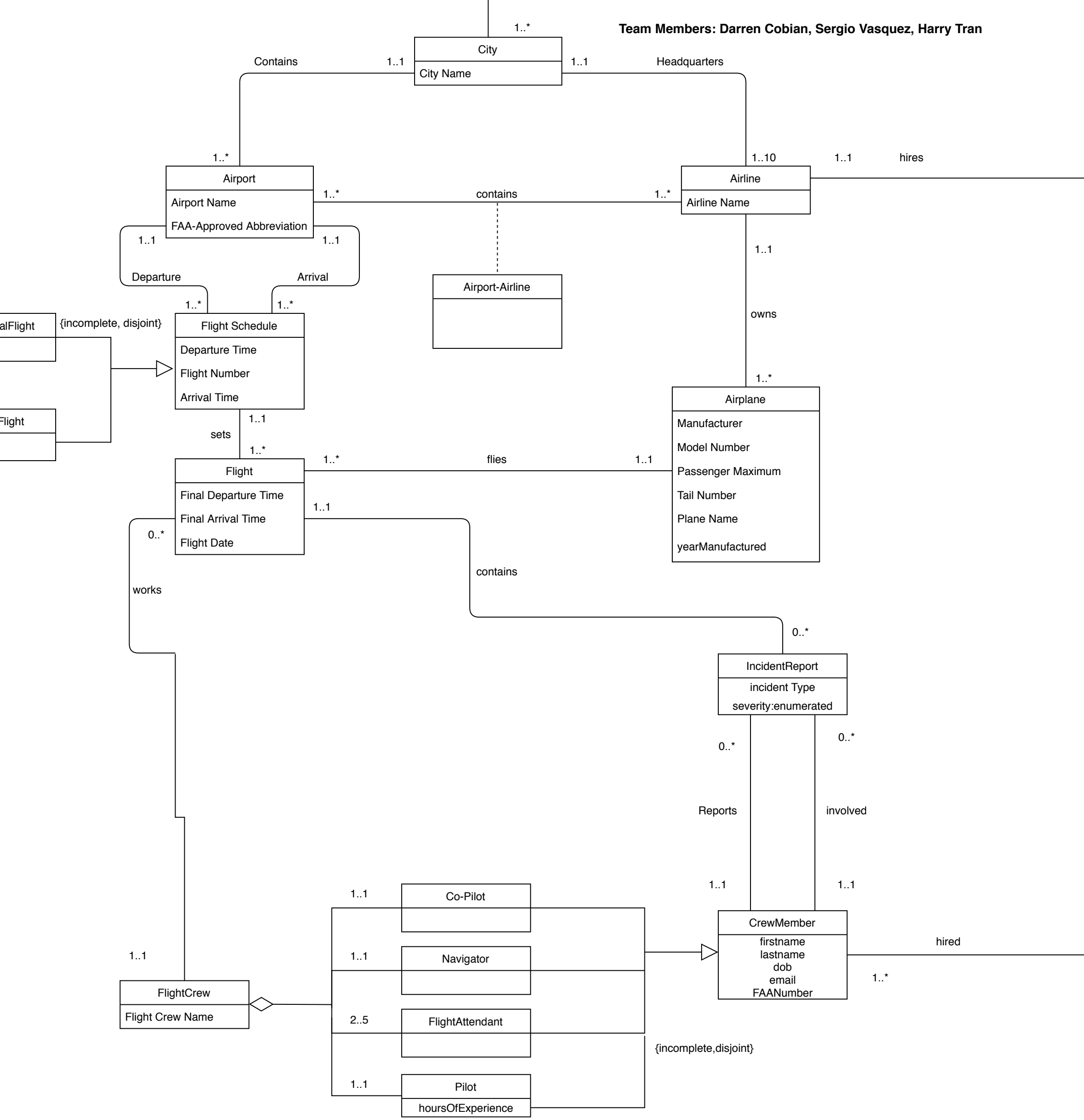
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contains

Definition

- **State:** a nation or territory considered as an organized political community under one government.
- **Airport** - a complex of runways and buildings for the takeoff, landing, and





- maintenance of civil aircraft, with facilities for passengers.
- **Airline** - an organization providing a regular public service of air transportation on one or more routes.
- **Airport-Airlines**: an association class that represent the relationship between airport and airlines.
- **Flight** - a process of flying through the air.
- **International Flight**: An international flight is a form of commercial flight within civil aviation where the departure and the arrival take place in different countries
- **Charge**: demand (an amount) as a price from someone for a service rendered or goods supplied.
- **Charged Flight**: a flight that can be local or domestic
- **Flight Crew** - Group of employees that help maintain a flight while it is in the air.
- **Incident Report** - Document containing information about passengers and crew members specifying incidents that occurred while on the flight, could be positive or negative
- **City** - a large town where people could live their daily lives.
- **Flight Schedule** - the time frame that a flight is meant to fly out in with both a beginning and an end.
- **Airplane** - the vehicle used for travel by air typically containing civilian passengers but can also contain products and other type of people with more specific specialties and a flight crew.
- **Crew Members** - the specific employees that belong to the flight crew.
- **Flight Crew**: people who are responsible for the operation of an aircraft during flight.
- **Pilot**: a person who operates the flying controls of an aircraft.
- **Co-Pilot**: a second who controls the aircraft.
- **Navigator**: a person who directs the route or course of a ship, aircraft, or other form of transportation, especially by using instruments and maps.
- **Flight Attendant**: someone whose primary duty is to ensure the safety and comfort of passengers during an airline flight.

Associations

A State contains one to many Cities.
A City is contained by one and only one State.

A City headquarters one to ten Airlines.
An Airline is headquartered in one and only one City.

A City contains one to many Airports.
An Airport is contained by one and only one City.

An Airline contains one to many Airport-Airline.
An Airport-Airline is contained by one and only one Airline.
An Airport contains one to many Airport-Airline.
An Airport-Airline is contained by one and only one Airport.

An Airport sets the arrival for one to many Flight Schedules.
A Flight Schedule has a set arrival at one and only one Airport.

An Airport sets the departure for one to many Flight Schedules.
A Flight Schedule has a set departure at one and only one Airport.

A Flight Schedule is set at one to many Flights.
A Flight is set by one and only one Flight Schedule.

An International flight isn't a Flight Schedule.
A Flight Schedule is an International Flight.

A chargedFlight has zero to many charge.
A charge had by one and only one chargedFlight

An Airline owns one to many Airplanes.
An Airplane is owned by one and only one Airline.

An Airplane flies one to many Flights.
A Flight is flown by one and only one Airplane.

A Flight Crew works zero to many Flights.
A Flight is worked by one and only one Flight Crew.

Each CrewMember can be a pilot
a pilot is one and only one crewmember

Each crew member can be a copilot
a copilot is one and only one crewmember

each crewmember can be a navigator
a navigator is one and only one crewmember

each crewmember can be a FlightAttendant
a FlightAttendant is one and only one CrewMember

A Flight Crew is composed of only one pilot
A pilot can be in 0 to 1 Flight Crew

A Flight Crew is composed of only one copilot
A copilot can be in 0 to 1 Flight Crew

A Flight Crew is composed of two to five Flight Attendant
A flight attendant can be in 0 to 1 Flight Crew

A Flight Crew is composed of one navigator
A navigator can be in 0 to 1 Flight Crew

A Crew Member reports zero to many Incident Reports.
An Incident Report is reported by one and only one Crew Member.

A Crew Member is involved in zero to many Incident Reports.
An Incident Report involves one and only one Crew Member.

A Flight contains zero to many Incident Reports.
An Incident Report is contained by one and only one Flight.

An Airline hires one to many Crew Member
A Crew Member is hired by one and only one Airline.