Airline Management

You received a task to model an Airline's internal structure. A Flight has two Pilots, three Flight Attendants, and many Passengers. Plan and make classes based on the following requirements:

- -Store every Airline Employee's name, phone number, birth date and salary
- -You have to store which languages flight attendants speak from the relevant ones (English, German, Spanish, Russian).
- -Every flight has a unique identifier and a random number of passengers between 100 and 250 (some overbooking is possible), and a language from the list above.
- -Pilots can be either Captain or Co-pilot on a flight. A Co-pilot on a flight can be captain on another one.
- -The airline provides premium quality Analog Compasses to pilots but only once, sometime after they got employed.
- -We should be able to check if a flight is ready to take off (with checking every Employee whether they are ready or not); the conditions of the clearance are:
- -The Captain and the Co-pilot have received their Compasses already.
- -The number of Passengers is less than 220.
- -All the Attendants speak the language of the flight.
- -Log the steps of the clearance check (passed / failed, and why)!

Hints: you should have an abstract class or interface, use inheritance, data hiding and make sure there is no code repetition.