OOP PROJECT

AIRLINE MANAGEMENT SYSTEM





OUR TEAM MEMBER



Thavroth Chea



Hay Rem

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01 WHAT OUR SYSTEM CAN DO



E CLASS AIRPOT

- ✓ Have many gate
- ✓ Can control many Airline
- √ Can find passenger's Trip



CLASS PASSENGER

- ✓ Can book one trip
- ✓ Can find gate that plan waiting
- ✓ Can choose meal given by flights



- ✓ Have many booking trip from passenger
- ✓ Control many employee(pilot, co-pilot)
- ✓ Have many Aeroplan, flights, meal



CLASS BOOKING TRIP

- ✓ Customer can book a trip
- √ Have a reference number
- ✓ Have one or many flight
- ✓ Have type of ticket (single and return ticket)

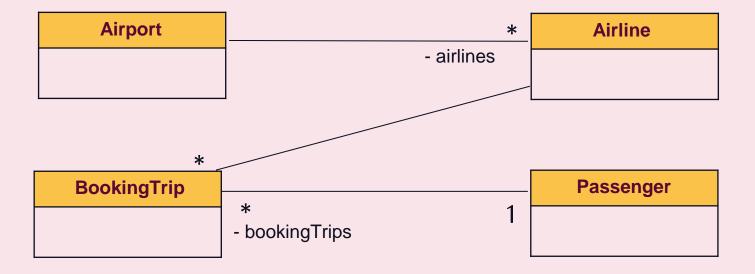
02 HOW TO SOLVE USER STORY



"As an airport controller, I need to get the full details of a passenger's trip from their Booking Reference Number (flights, bags, customer information...)"



UML DIAGRAM



FUNCTION TO GET A PASSENGER'TRIP



Class BookingTrip

```
getPassenger(){
    return this.passengers
}
```

Class Airline

```
getBookingTrip(){
    return this.bookingTrip
}
```

Class Airport

```
findPassengerTrip(passenger:Passenger){
    for(let airline of this.arilines){
        for(let trip of airline.getBookingTrip())
            if(trip.getPassenger() == passenger){
                return trip
        return undefined
```

Thavroth Chea

SECOND USER STORY:

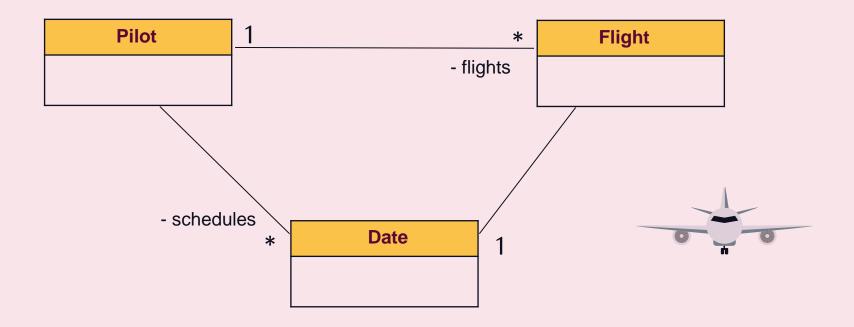
" As an airline pilot, I want to know, for a given date, how many flights I have to join"







UML DIAGRAM



FUNCTION TO FIND PILOT'S FLIGHT

Class Flight

```
getFlightDate(){
    return this.date
}

getPilotFromFlight(){
    return this.pilot.getPilotCardId()
}
```



Class Pilot

03

RUN TEST OF MY USER STORY I HAVE







04 WHAT DID I LEARNT DURING THE PROJECT

HART SKILL

- Analyze relationship between classes
- More clear about get, add, set



SOFT SKILL

- ✓ Researching skill
- Task and time management
- ✓ Teamwork



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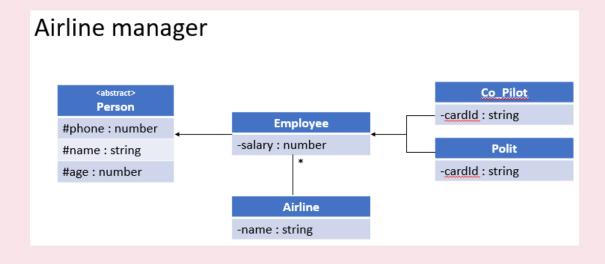
USER STORY & UML SHOWING



USER STORY

UML

As an airline manager, I want to find out how much salary I pay all my employees.



FUNCTION TO FIND SALARY FOR ALL EMPLOYEE

Class Employee

```
getSalary() {
   return this.salary;
}
```



Class Airline

```
findSalaryForAllEmployees(){
    let salaryForEmployee = 0
    for(let employee of this.employees){
        salaryForEmployee += employee.getSalary()
    }
    return salaryForEmployee
}
```

USER STORY & UML SHOWING

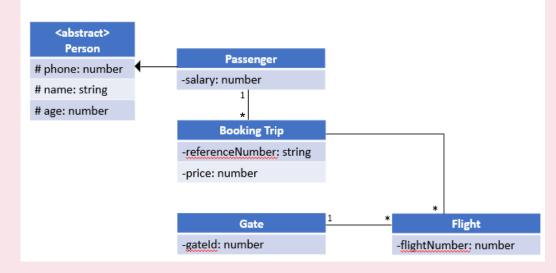


USER STORY

As a passenger, I want to know which gate my plane is waiting at.

UML

Passenger find gate of plan waiting





FUNCTION TO FIND GATE

Class Flight

```
getGate(){
    return this.gate
}
```

Class Passenger

Class BookingTrip

```
getGateFromFlight(){
    let gateOfFlight = []
    for(let flight of this.flights){
        gateOfFlight.push(flight.getGate())
    }
    return gateOfFlight
}
```

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02 WHAT WE HAVE LEARN & DO DURING PROJECT



HARD SKILLS

- + Researching skill
- + Learn something new
- + Learn more about comcept of OOP



SOFT SKILLS

- + Team work
- + Time Management
- + Task Management





THANK YOU

Free to ask questions!