Use Case Name: Book flight	ID Number: 1
Use Case Description: Customers that want to book a flight and have searched for a flight will be able to finalize their booking and pay for it. This booking is then saved.	
Trigger: Customer wants to book a flight with our airline Type: **External**	

Inputs		**Outputs**	
Description	Source	Description	Destination
New passenger details	Passenger	Booking / new passenger confirmation	Passenger
Payment information	Passenger	Total booking price	Passenger
Passenger ID	Passenger	Saved new passenger details	Passenger DB
Selected flight(s)	Search for flight process	New payment request (price and passenger payment details)	Payment Processor
Selected flight details	Flight DB		
Existing passenger details	Passenger DB	New booking	Booking DB
Payment confirmation	Payment Processor		

Steps Performed	**Information for Steps**
1. System receives the selected flight from the passenger's flight search and retrieves the detail for that flight from the database.	← Selected flight(s) ← Selected flight details
2. System retrieves either new passenger details (if the customer is new) or their passenger ID, which allows the system to either save the new passenger details or retrieves existing passenger details in the database.	← New passenger details → Saved new passenger details ← Passenger ID ← Existing passenger details
3. System sends the customer the total price and the customer pays for that flight.	→ Total booking price ← Payment information → New payment request (price and passenger payment details) ← Payment confirmation
4. Booking is finalized, saved in the system, and confirmation of that booking is sent to the customer.	→ New booking → Booking / new passenger confirmation

Use Case Name: Search for flight			ID Number: 2
Use Case Description: Customers looking for a flight can enter their search criteria, select a flight, and then that selection is sent on for booking.			
Trigger: Customer wants to search for a flight. Type: **External**			
Inputs Description	Source	**Outputs** Description	Destination
Selected flight(s) from criteria	Passenger	Available flights	Passenger
Flight search criteria (dates, destination, origin)	Passenger	Selected flight(s)	Book flights process
Flight matching criteria	Flight DB		

Steps Performed	Information for Steps
1. Customer searches for a flight depending on certain criteria and matching flights are retrieved from a database and sent to the customer.	← Flight search criteria (dates, destination, origin) ← Flight matching criteria → Available flights
2. Customer selects a specific flight and that flight selection is sent on to the booking flight process.	← Selected flight(s) from criteria → Selected flight(s)

Use Case Name: Check-in to flight			ID Number: 3
Use Case Description: Customers that want to check-in to their flights will show up at the flight counter and have their booking updated once they've checked in.			
Trigger: Customer shows up at the check-in counter Type: **External**			
Inputs		**Outputs**	
Description	Source	Description	Destination
Booking confirmation number Customer booking	Passenger Booking DB	Updated booking	Booking DB

Steps Performed	**Information for Steps**
1. Customer provides their booking confirmation number and the related booking is retrieved from the database	← Booking confirmation number ← Customer booking
2. The updated booking is saved in the database based on the customers check-in status	→ Updated booking

Use Case Name: Update flight DB			ID Number: 4
Use Case Description: This process checks and updates a global flight database with information from our database. Our database is refreshed with the information from the global flight database.			
Trigger: Once every hour. Type: **Temporal**			
Inputs		**Outputs**	
Description	Source	Description	Destination
Flight details Potential flights and flight disruption notices		Updated flight details Flight details from our airline	

Steps Performed	Information for Steps
1. System retrieves the details of potential flight disruptions from a global flight database and the details for all the flights that we have in our flight database.	← Flight details ← Potential flights and flight disruption notices
2. These two sets are compared and changes to our schedule are saved in both our flight database and sent to the global flight database.	→ Flight details from our airline → Updated flight details