

# FlyNow

Team #40

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## Entities and Attributes Description

- **Customers:** They will have a name so each customer is identified by their name. A unique email address will be associated with the customer's name. The customer will be able to access their booking with their unique email address. A customer account will be designated non-admin privileges.
- **Airline:** An airline will have a unique name and will have airplanes to take customers to destinations.
- **Airplanes:** Airplanes, defined by their registration numbers, go on flights to take customers to destinations.
- **Account:** An account will have a name associated with it, along with a unique email address that ties it to the account. A customer will be able to view their past and future bookings in their account.
- **Records:** Will hold customer information such as their name and bookings.
- **Administrators:** Will have a unique name, along with administrative privileges which will allow full access to all records.
- **Partners:** Partners will have access to their performance stats compared to other partners. Partners have more privileges than customers, but still below administrators.
- **Flights:** Will have a unique destination that customers can book. Each flight also has seat capacity if the flight capacity becomes zero then the customer will not be able to book that flight. Each flight will depart on a certain date along with the time.
- **Reservations:** Reservations hold the flight details and will be held by specific flights from any given airline. They are also held by the customer
- **Payment:** For a successful reservation, the customer must enter credit card details, and the payment must go through.

### Relationships:

- Customers have accounts
- Accounts book reservations
- Flights have reservations
- Reservations take payment
- Accounts have records
- Airlines have Airplanes
- Airplanes take Flights
- Administrators have accounts
- Partners have accounts
- Airlines have administrators

### Attributes of Entities:

- Customers: Name, Email address,
- Airlines: Name
- Airplanes: RegistrationID, Capacity
- Administrators: Name, Email address
- Accounts: Email address, password
- Records: Flight No., DateOfFlight, TimeOfFlight, Origin, Destination, Cost
- Flights: Flight No., Origin, Destination, DateOfFlight, TimeOfFlight
- Reservations: Cost, Flight No.
- Payment: Name, credit card number, expiry date, cvv number
- Partners: Name, Email Address

