**DAMG 6210**

**PROJECT: Streamlining Air Travel**

# P3 - Final ERD (Logical Model)

This is the improvised ERD with no redundancies and entities refined.

A diagram of a company

Description automatically generated

Here are the changes and enhancements compared to previous ERD:

* The Payment entity has been removed, and its attributes have been refined and added to an entity called Payment\_Status. This was done by considering Reservation\_ID as a foreign key in the Payment\_Status block.
* The TypeOfFlight attribute has been added to the Flight entity.
* Proper attributes have been added to the Airport entity to provide specific details about airports like city, country.
* Service\_Offering is now considered as an associative entity. It includes additional attributes such as Start\_Date, End\_Date, and Offered. Start\_Date and End\_Date indicates when the respective service is available, while the Offered attribute indicates if the service is offered for the respective Travel class. Proper relationships have been established with Flight\_Services and Travel\_Class using foreign keys.
* The Service\_Type attribute has been removed from the Flight\_Service entity as it was unnecessary.
* Gate Number and Terminal attributes have been removed as they were not required for enhancement.
* Relationships have been ensured to be readable in both directions for clarity.

**Revised Entities List:**

**Entities:**

* Flight
* Airport
* Passenger
* Reservation
* Payment\_Status
* Services\_Offering
* Flight\_Service
* Seat
* Travel\_Class
* Flight\_Cost
* Schedule