

***Airport Operation Management System***

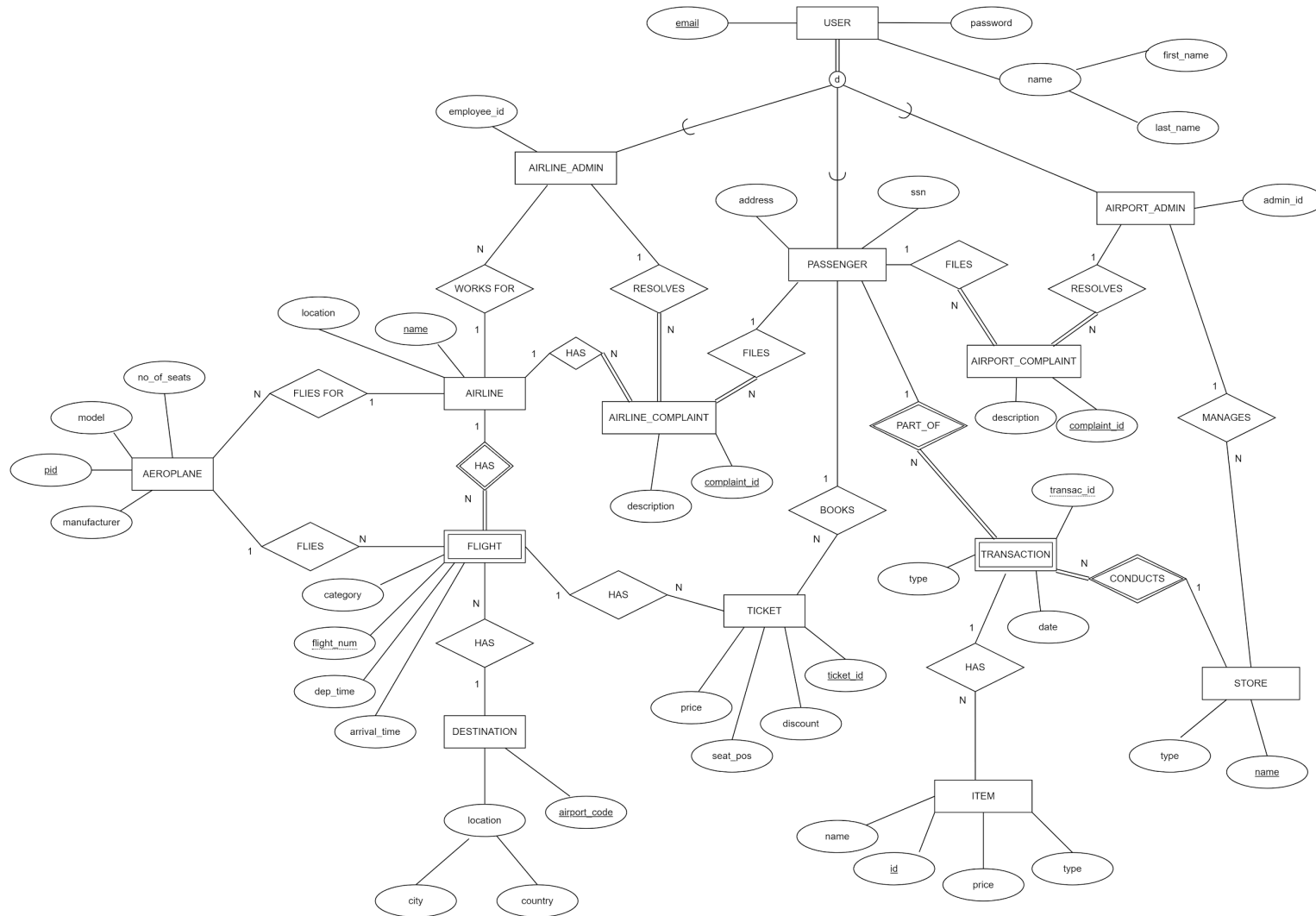
Intermediate Progress Report One

Project Extended ERD

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## Extended Entity Relationship Diagram



## Assumptions

User:

- A user has to be one of passengers, airline administrator, or airport administrator.

Passengers:

- Passengers can book many tickets.
- Passengers can file many airline and airport complaints.
- Passengers can complete many transactions.

Airport Admin:

- Airport admins can manage multiple stores.
- Airport admins can resolve many airport complaints.

Airline Admin:

- Airline admins can only work for one airline
- Airline admins can resolve many airline complaints.

Airline:

- Airlines can have many aeroplanes.
- Airlines can have many flights.
- Airlines can have many complaints against it.
- Airlines can have many airline admins.

Aeroplane:

- Aeroplanes can only fly for one airline.
- Aeroplanes can fly multiple flights.

Flight:

- A flight can only have one airline hosting it.
- A flight can only have one aeroplane flying it.
- A flight can sell multiple tickets.
- A flight can only have one destination.

Ticket:

- A ticket can only sell one flight.
- A ticket can only have one passenger purchasing it.

Complaints:

- A complaint can be resolved by only one admin.
- A complaint can only be filed by one passenger.

Transaction:

- A store can conduct multiple transaction and a transaction would require at least one store
- Passengers can take part in multiple transactions and a transaction would need at least one passenger to make it happen.
- Many items can be included in one transaction.

Store:

- A store can have multiple transactions.
- A store can only be managed by one Airport admin.

Destination:

- A destination can have multiple flights flying to it.