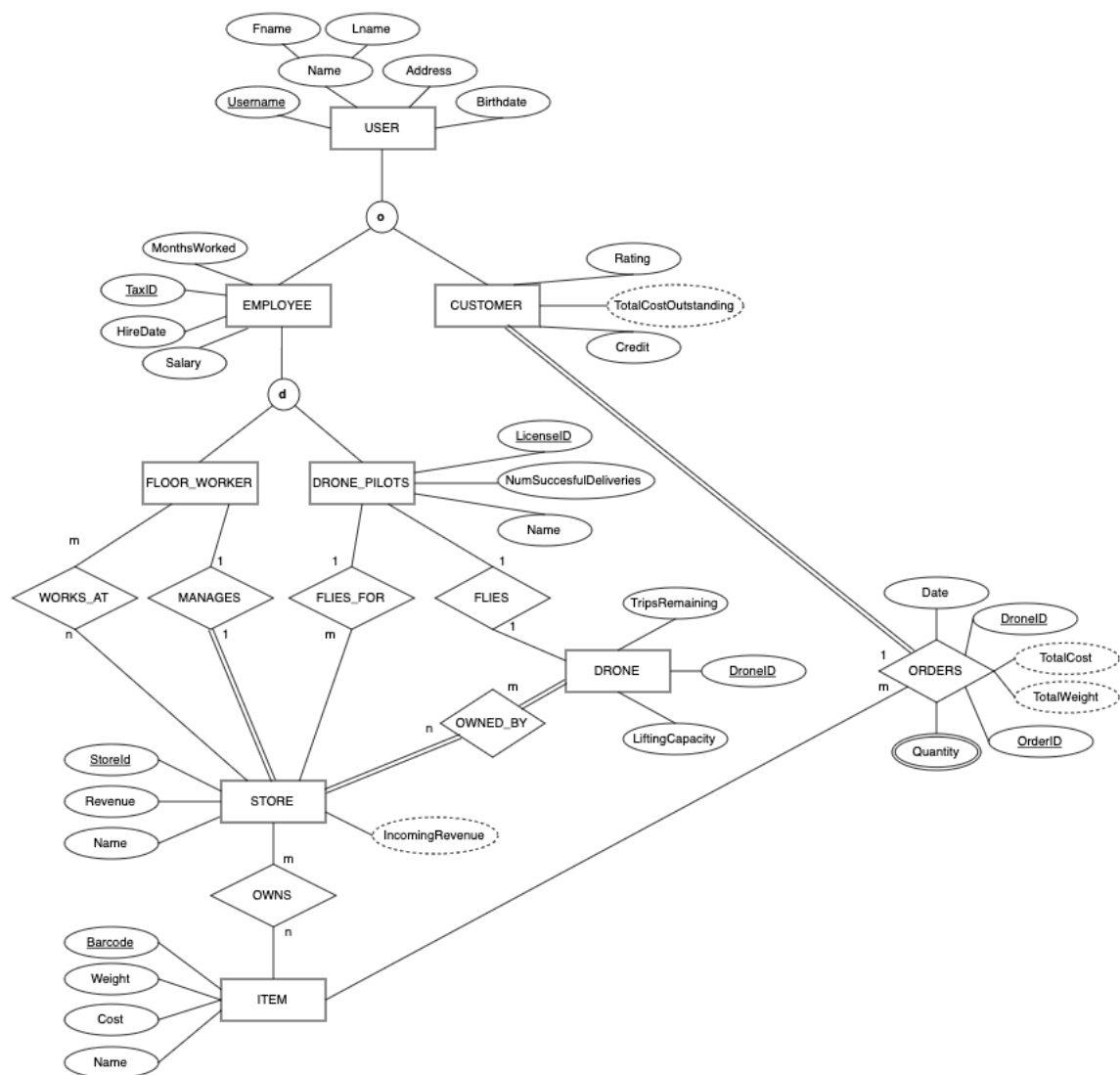


# Grocery Express Drone Delivery System



# EERD List of Assumptions

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1. A user can be an employee, a customer, or both, so we used “o” to indicate a potential overlap.
2. There are more roles than floor workers and drone pilots, but we only explicitly keep track of these two in our system. The roles we are keeping track of can only be a floor worker or drone pilot.
3. The Trips Remaining on a drone is based on subtracting a trip from the maximum number of trips capable of the drone which is not explicitly stored.
4. Each drone is identified relative to its specific store by its unique drone id, and that is used for specific delivery during orders.
5. The total cost for each customer’s order is derived from the cost of the item(s) multiplied by the quantity purchased, so we decided to make it a derived attribute. The same applies to the weight of the item and the weight of the order.
6. The quantity of the item can be one or more in order, but that item can only be listed at most once on a given order. However, There can be multiple quantities of different items in an order.
7. Incoming Revenue is derived from the sum of all the calculated total cost of the orders which was derived from the costs of all of the items in each order. We chose to put the incoming revenue off of the store quantity because it owns all of the items.