

Tasks done

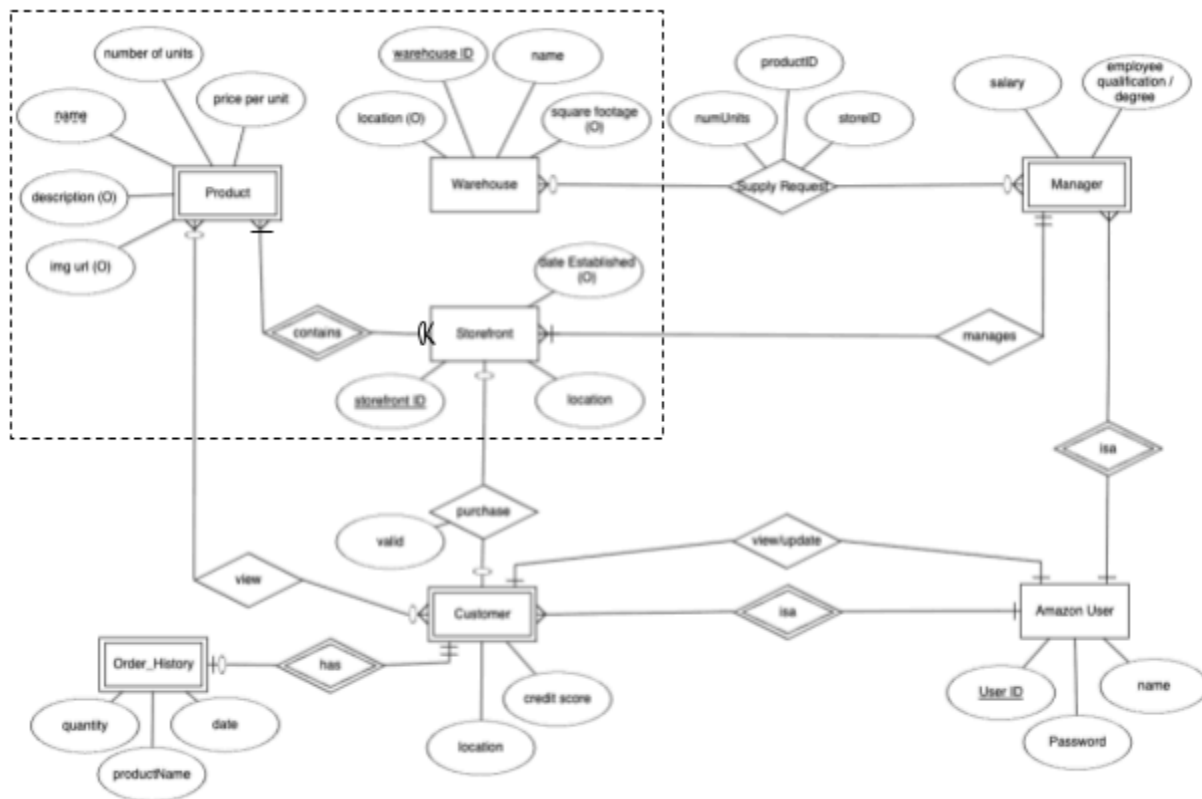
Joseph Chang

- Started the ER diagram by plotting most of the entities, attributes, and relationships.
- Collaborated with Harrison to review the ER draft.
- Listed the assumptions / constraints we made for the diagram.

Harrison Cooper

- Finished the ER diagram draft by adding the unfinished entities, relationships, and cardinalities.
- Collaborated with Joseph to review the ER draft.
- Proof-read the ER diagram and drew the aggregation.

ER Diagram



Key & Participation Constraints

Amazon_Customers can view list of available products

- Key Constraints
 - Many(products) to many(amazon customers)
- Participation Constraints
 - Amazon customers optionally can view list of available products products,
 - Product doesn't need to view Amazon customers

Amazon_user to Manager

- Weak Entity
- Amazon_user is entity

Each store is managed by a manager and a manager can manage multiple stores

- Key Constraint
 - Many(storefront) to one(manager)
- Participation Constraints
 - Manager can manage multiple stores but must manage at least one store
 - ASSUMPTION
 - Storefront must only have ONE manager
 - ASSUMPTION

Manager makes supply request to aggregation(Warehouse, Storefront, Product)

- Key Constraint
 - many(manager) to many(aggregation)
- Participation Constraint
 - Managers could make multiple supply(Optional)
 - ASSUMPTION

Amazon customer could view and update their profile

- Key Constraint
- Participation Constraint

Order History

- Weak entity
- Amazon user being the strong entity due to amazon customer relying on amazon user
- Tied to amazon customer

Amazon customer can purchase products from a storefront

- Key Constraints
- Participation Constraints
 - Amazon_customer optionally can purchase products at a storefront as long as it is valid.
 - Storefront optionally can sell their product to the amazon_customer
 - ASSUMPTION (store right to refuse service)

Storefront contains products

- Weak entity
- Relies on storefront
- Key Constraints
 - Many (product) to many (storefront)
- Participation Constraints
 - Storefront contain many products
 - Products can be in multiple storefronts.