

### Macrohard : Tech Supply Franchise

Macrohard is an up and coming tech supply chain with a physical and ecommerce presence. The primary goals of Macrohard is to (1) store customer and merchandise information and (2) be able to process customer purchases and have the database reflect that accurately.

- Customers have a unique id on registration, a name (first and last), and a passkey. Customers can also make any number of reviews for merchandise types. Every review has a rating and description. Customers can have multiple orders.
- Employees have a unique id, name (first and last), title, and they must work at a store. Each employee can have a manager. Every employee can work in a number of stores.
- Merchandise types are identified by a unique brand and model name. Every merchandise type must have a unit price. Every merchandise type can have an average rating from the customers' reviews. Every merchandise type must be either one of "phone", "desktop", or "laptop". Each phone can have one or more carriers, multiple available colors, internal storage in gigabytes, and an operating system. Each laptop and desktop have a processor model and ram.
- Merchandise is classified as one of the merchandise types. Merchandises have a unique serial number. Every piece of merchandise has an associated store.
- Stores have an address (state, city, zip code). Stores must have a number of employees and must have one manager. Some stores can have online websites with an unique URL.
- Orders are created by customers and have an associated unique ID per customer. Orders contain any number of merchandise and a total price. Some orders can be online, such that it has a delivery status and address.