Team Silver - 5/4/2025 - CSD-310

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Milestone 1:

The case study we picked was Outland Adventures.

Business rules, assumptions, and attributes:

* Each trip has a start and end date.
* Each trip has a maximum group size.
* A customer can book one or more trips at a time.
* A trip can have many customers.
* A trip occurs in a specific location (like Africa, Asia, or Europe).
* A trip is organized by one guide, but a guide can manage multiple trips
* Equipment can either be sold or rented to customers.
* A customer can purchase or rent multiple equipment items.
* Equipment has a purchase date and allows age tracking.
* Each piece of equipment has a stock quantity.
* The Inventory Manager is responsible for maintaining equipment records
* The website will allow trip schedules and equipment listings.
* Equipment older than five years may need review or replacement
* One customer can have many trips
* One customer can have many transactions
* A customer can purchase or rent equipment
* One employee has many trips
* Only one employee or guide per trip - assumption
* One employee manages equipment
* Trips can have many transactions
* customer will want to buy or rent more than one item - assumption.
* Trips have equipment
* Customers need to find information on schedules with information on trek details
* Ability to purchase or rent hiking/camping equipment online or schedule it for rent/purchase at arrival
* Inventory system necessary to track and possibly automatically notify of what needs restocked
* Connections to airfare, visa regulation sites, and vaccine or consolate sites
* Something to track booking
* Each product will need its own id for the program
* Employees can only manage order entry but not suppliers or inventory updates
* Order details will be tracked separately in a join kind of table maybe
* Even if product item count is 0 it still stays on the table (maybe once it hits 0 a message would display time to reorder)
* Only the existing suppliers will be assigned to new product

Initial ERD:

A diagram of a constellation

AI-generated content may be incorrect.