Group 2

Module 9.1 Assignment

11/28/23

**Team Members**

Loreto Eclevia

Omar Johnson

Michael Richey

Francisco Sanchez

**Case Study:** Outland Adventures

**Business Rules (Milestone #1)**

* We need to track *Equipment Items* in a table to track inventory
* Since customers can either rent or buy our equipment
  + We need to track *Equipment Rentals* in a table
  + An *Equipment Rental* is associated with an *Equipment Item* in inventory
  + We also need to track *Equipment Purchases* in a table
  + An *Equipment Purchase* is associated with an *Equipment Item* in inventory
* Since we need to compare if customers buy enough of our equipment to our supplies
  + We need to track our company’s *Equipment Orders* in a table
  + An *Equipment Order* can contain multiple *Equipment Items*
  + An *Equipment Item* is from one *Order*
* Since we need supplies on our trips
  + Do we need to track our *Supply Orders*?
* Since we have scheduled trips for customers
  + We need to track our *Trips*
  + We need to track our *Trip Bookings*
  + We need to track our *Customers*
* Since we need data on which trip locations are seeing a loss in customers
  + We need a table for *Locations*
* *Customers* can have zero to many *Rentals*
* *Customers* can have zero to many *Purchases*
* *Trips* can have multiple *Trip Bookings*
* *Trips* can have only one *guide*
* A *Trip Booking* is for only one *Trip*
* *Customers* can have multiple *Trip Bookings*
* A *Trip Booking* is by only one *Customer*
* Assumptions:
  + Website purchases are logged in the same table as in-person purchases -> *Equipment Purchases*
  + Purchases cost more/different from rentals and therefore their prices cannot be tracked in *Equipment Item*

**Initial ERD (Milestone #1)**

