Group 4

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Module 9

Assignment: Milestone #1

**Case Study Chosen**: Outland Adventures

**Business Rules:**

* Must keep track of Outland Adventures’ customers.
* Must keep track of Outland Adventures’ employees.
* Must keep track of Outland Adventures’ trip schedules.
* Must keep track of Outland Adventures’ inventory.
* Items in inventory must either be rented or bought outright.
* Items in inventory must not be over five years old.
* Outland Adventures operates in three locations: Africa, Asia, Southern Europe.
* Analytical function (view or stored procedure) for booking per location to analyze downward and upward trends.
* Analytical function (view or stored procedure) for equipment purchases and rentals to analyze most utilized and least utilized equipment to potentially remove from inventory.
* Keep track of customers' status regarding their required payment toward airfare, required inoculations, and visa requirements.
* The ecommerce site must access information about trips/check schedules and allow purchases/renting of equipment

**Assumptions:**

* We assumed keeping track of employees to identify which guide will be assigned to each customer upon booking. Keeping track of the employees could make payroll easier thus optimizing Outland Adventures.
* We assumed a view/stored procedure for the database would be best to analyze the data of Outland Adventures.
* We assumed Outland Adventures would want to also keep track of the status of each customer regarding payment, visa, and inoculations so it will be easier to identify if all customers are ready for their booked trips.
* We assumed any inventory not selling as much would potentially be removed to prevent losses.
* We assumed items over five years old would require replacing due to safety concerns which will need to be updated in the database when replaced.
* The relationships in the ERD are assumed based on the information provided.
* Unique IDs are assumed at certain tables for appropriate system design and flow of information.
* We assumed one guide is allowed per trip.
* Each trip can have multiple customers
* Each trip must have at least one guide
* We assumed that in their website where customers can access information about trips/check schedules
* In the website customers can also purchase equipment
* We assumed that the revenue from the business will be steady and viable to pay employees, purchase inventory and supplies.
* We assumed that our marketing team will improve optimization with ecommerce have an upward trend in sales.
* We assumed that customers would follow through with their bookings and pay entirely for their trips
* We assumed that all the data would be accurately entered in the database to minimize mistakes and keep the business integrity.

**Initial ERD:**

**URL**: [Initial\_Group4\_ERD](https://online.visual-paradigm.com/share.jsp?id=333533353838392d34)

