

**Water Way Zen**

**Database Dictionary  
And  
Preliminary Assumptions**

**Michael Glover  
Database Systems**

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## **Assumptions:**

These assumptions are all based on my own limited knowledge of how a rental company should work and may be subject to change as I learn more information about what is needed in this database. These assumptions will be the basis for the rest of the information included in the report. Below are my key assumptions.

- Drivers are the only ones who drive the vans, this is also all they do.
- Employees make reservations and give the guided tours
- Customers who do not need a shuttle can take their rentals anywhere
- Guided tours and shuttles have predefined locations
- A new waiver is signed for every rental, regardless if customer is existing
- Minors cannot sign waivers, so customer DOB is required
- Rental times will have a base unit in hours

## Users and Mock Designs:

I will be basing my design around four different user types; customers, rental salesman, drivers, and managers. Customers will be able to view available rental equipment, available shuttle options, along with the ability to place an online reservation. Rental salesman will have a view that give them the ability to see the available rental equipment, available shuttle options, the ability to place reservation for walk-in customers, and the ability to see their schedule for the scheduling period, including when they will be needed to give a guided tour. A driver's view will show them the list of their daily driving route along with the equipment that will need to be loaded on their van, they will also see their schedule for the scheduling period. The managers have a view that will offer to them all of the previous information along with the information related to ads, including the cost, views, location, and when it was originally placed.

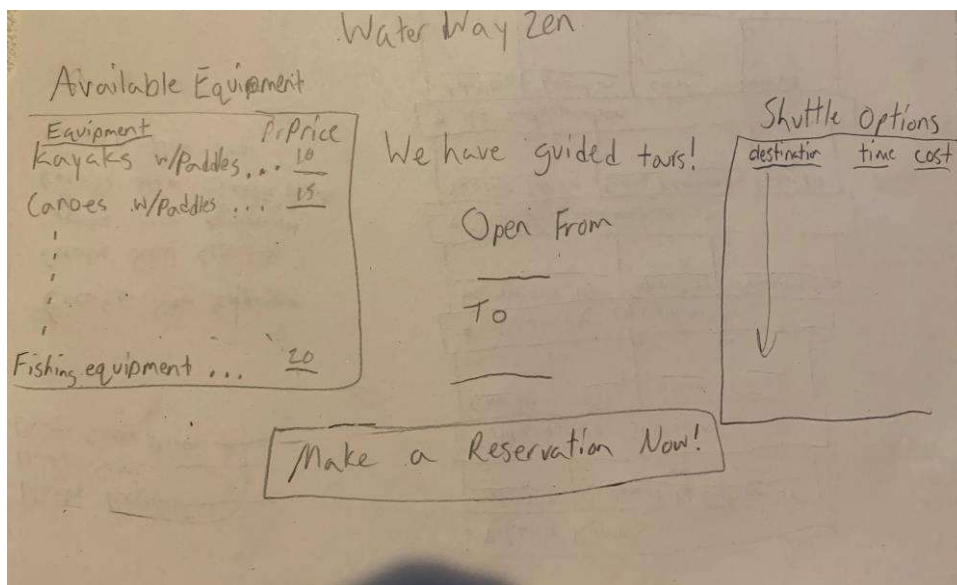


Figure 1: Customer Mock View



Daily Revenue: \_\_\_\_\_  
Daily Sales: \_\_\_\_\_  
Daily Mileage Driven: \_\_\_\_\_

Create New Employee

Create New Schedule

Create New equipment

Create New Shuttle Route

Create New Ad

Daily Rentals

Rental ID	Equipment ID	Customer ID
:	:	:

All employee Schedules

Emp ID	Date	Start	End
:	:	:	:

Available equipment

Equipment ID	quantity	Returning Soon
:	:	:

Shuttle Information

Shuttle ID	Seats remaining	Van ID
:	:	:

Ad Information

Ad ID	Location	cost	views
:	:	:	:

Figure 4: Manager View

## Data Dictionary:

Located below is the data dictionary, that will contain all the information that will be tracked by the database. We will be tracking information on all the relevant parts of this business, such as, ad information, reservation information, customer information, shuttle information, waivers, insurance, guided route information, equipment information, employee information, van information, and employee scheduling information.

Table 1: Data Dictionary

<u>Data Label</u>	<u>Description</u>	<u>Data Type</u>
Ad Id	Unique Identifier for an ad	integer
Ad Cost	The price paid for placing the ad	decimal
Ad Location	Where the ad was ran(internet,Print,etc)	characters
Ad Views	The number of times the ad was viewed	integer
Ad Placement Date	The date the ad was originally placed	integer
Reservation Id	Unique Identifier for a reservation	integer
Customer first name	First name of the customer	characters
Customer last name	Last name of the customer	characters
Customer DOB	Date of Birth for the customer	integer (MMDDYYYY)
Rental ID	Unique Identifier for a piece of rental equipment	integer
Rented Equipment ID	The ID of a rented piece of equipment	integer
Date	The date of the reservation	integer (MMDDYYYY)
Rental Cost	The price charged for the reservation	decimal
Rental Length	How long the reservation is scheduled for	decimal (in hours)
Travel Id	Unique Identifier for a drop off/pick up	integer
Travel Location	The location of the drop off/pick up	character
Travel Time	The start time of the trip to the location	decimal
Travel Length	The time it takes to reach the location	decimal (in hours)
Travel Cost	The price charged for the drop off/pick up	decimal
Travel Seats Remaining	The number of seats left on the van scheduled to make the drop off/pick up	integer
Waiver ID	Unique Identifier for a signed waiver	integer
Insurance ID	Unique Identifier for a purchased insurance policy	integer
Survey ID	Unique Identifier for a submitted survey	integer

Survey Rating	The rating associated with the survey	integer
Tour route ID	Unique Identifier for a tour route	integer
Tour route Name	The name of the route that will be guided	characters
Equipment ID	Unique Identifier for a piece of equipment	integer
Equipment Name	The name of a piece of equipment	characters
Equipment Cost per Hour	The rate charged per hour of rental	decimal
Brought Lifejacket	If a customer brought their own lifejacket	binary(yes,no)
Van ID	The VIN for the van	varchar
Van Make	The make of the van	characters
Van Model	The model of the van	varchar
Van Mileage	The mileage on the van	integer
Employee ID	Unique Identifier for employee	Integer
Employee First Name	First name of the Employee	characters
Employee Last Name	Last name of the Employee	characters
Driver	Is the employee a driver or not	Binary(yes,no)
Schedule ID	Unique Identifier for a schedule entry	integer
Schedule Employee ID	Employee ID that will be scheduled	integer
Schedule Date	Date that will be scheduled	Integer
Schedule Start Time	Time the employee is scheduled to come in	integer
Schedule End Time	Time the employee is scheduled to get off	Integer