Car Rental

1.) The type of system we selected is the car rental management system.
2.) Our group consists of Agustin Sandoval, Hunter Crouch, and Julian Garcia.

The purpose of our system will have many objectives:
- Our system will keep a detailed log of employees, customers, vehicles, services and appointments.
  - Vehicle's info we plan on including:
    - Make, model, year, plate number, color, mileage, gas and type of transmission. We also plan on including a 1 day rate for its use (e.g. one specific car will be 50$ a day for renting it), and a set dollar amount associated with every 25 miles (e.g. one specific car will be 50$ to drive it every 25 miles).
  - Appointment information we plan on including:
    - The car that is being selected, the customer's name and information, the employee that made the appointment, the service charge that will be applied, discounts, pick up date, drop off date, amount of days expected to rent, miles expected to be driven,and if payment has been received. In addition if the same car is being requested for the same day as in another appointment, the option to create a new appointment will not be possible.
  - Customer's information we plan on including:
    - Name, last name, address, phone number, insurance, license number, credit card number (for payment), driving history.
  - Services and fee's descriptions we plan on including:
    - Car drop off fee, car pick up fee, cleaning fee, and late fee.we also plan on having a specific charge for each different fee.
  - Employee information we plan on including:
    - Address, date of birth, ethnicity, gender, phone number, pay rate, and insurance..

- Organize and keep track of customers, employees, vehicles, services and appointments.

- Its users will be able to create/delete certain customers, vehicles, services and appointments in the system.

- Its users will be able to change the characteristics and information of customers, vehicles, services and appointments in the system.

- Print a report/inventory of all customers, vehicles, employees, services, and appointments.

- Our system will make it easier to search for a particular customer's, vehicle's, employee's, and appointment information.
- Employees
  - Address
  - Date of Birth
  - Ethnicity
  - Gender
  - Phone Number
  - Hours worked
  - Pay rate
  - Insurance
    - If they have the insurance they will have a certain untaxed pay cut
  - Untaxed wage
    - using hours and pay rate
  - Taxed take home
    - Taxing The untaxed wage to determine take home
- Customers
  - Adding / Removing
    - Details of Customer
    - New Cars
    - Appointments
  - Details of customer
    - License Number
    - Name
    - Insurance
      - What company and if they cover accident in a rental
    - Card Number
      - For payment
  - Cars
    - Car rate of cost
    - Type of transmission
      - To determine if customer needs to have certain type to drive it
    - Make
      - To see if customer wants to drive that specific model or not
    - Year
    - Color
      - If The customer prefers a type of color
    - Plate Number
    - Mileage
      - They will be charge at a fixed rate per mile based on cost of renting car
    - Gas in tank
      - If they have not filled car above a certain percentage then they get charged extra

- ■ Rent status
    - ● If the car is currently rented or not and by who
- ■ Spot in parking lot
    - ● By number
- ■ Maintenance status
    - ● If vehicle is currently in service
- ○ Payment
    - ■ Amount
        - ● Use The gas in tank the mileage and the amount of time used to calculate the cost and what type of car is being driven
    - ■ Discount (if any)
        - ● The car can have a discount if coupon or something is used
        - ● Or if rented for long time may receive discount
    - ■ Price adjustment
        - ● If the time of year like in christmas you can raise prices at a rate for that time
- ○ Services
    - ■ Dropoff
        - ● The service of dropping off a car at a location
    - ■ Pickup
        - ● The service of having employees go pick up the vehicle
    - ■ Cleanup
        - ● If the car is messy at time of pickup
    - ■ Rental
        - ● A rental at the building
    - ■ Time extension
        - ● Gives customer option to extend the time of the rental
- ○ Appointments
    - ■ Time of pickup
    - ■ Time of dropoff
    - ■ Cancel appointments
    - ■ Total time of appointment
    - ■ Change appointment
- ○ Search
    - ■ Cars
        - ● Search make year or transmission type to find a certain feature
    - ■ Customer
        - ● Find customer name from list
    - ■ Employee
        - ● Search for name of employee and bring their info sheet
- ○ Print report
    - ■ Employee wages
    - ■ Inventory of cars