

# Project Scenario

- A custom car fabrication firm.
- Five different parts suppliers.
- Each supplier provides many different parts.
- The need to add, track, update, change status, remove, and monitor the quantity of parts in large inventory.
- The need to place orders with start and completion dates.

# Client's Requirements

- New inventory must be associate with a specific vendor.
- Must be able to add or update vendor information (name, email, phone).
- Update part name, associated vendor, quantity in stock, and price per item of the parts in inventory.
- Each specific part added must have a unique ID.
- Parts that are lost or defective are removed from inventory.
- Search for parts with less than 50 remaining in stock.
- Add new orders with a start date and completion date.
- Executed orders must automatically decrease inventory by the specified amount on the start date.
- When a new car is built, the status of the required parts automatically changes to “used”.
- Delete orders once completed.
- Update quantity in stock of any part.

# Design

