Entities that the web store must keep track of:

1. Parts (Perry will provide a sample parts list)
   1. Part #
   2. Short description
   3. Long description
   4. Multiple images
   5. Multiple data sheets
   6. Location in lab (cabinet, drawer, area inside drawer)
   7. Quantity in stock
   8. Multiple fields for price
   9. Part # and price for each vendor
   10. Cost averaging (if cost of a product changes when we restock, but we still have products left over from the last order, the new cost should reflect the average)
   11. Some parts can be marked as only available to each customer once
2. Vendors
   1. Address/other contact information
   2. Account #
   3. Parts offered by vendor
      1. Product #
      2. price
3. Accounts (three levels)
   1. Customers (students)
   2. Staff
   3. Admin (Perry)

Features:

1. Customer can:
   1. Create account
      1. Name, z-number, email, phone# (optional), college, department, graduation date, classes taken (3 letters, 4 numbers), password
      2. Sign in with email and password
      3. Include “dead space” for extra fields to be added later
   2. Order parts
      1. Select individual parts or kits
      2. Indicate what the part is for, either class or personal use (drop down menu)
   3. Request new item
      1. Customer fills in all fields
      2. Admin approves or rejects the request
   4. Request a job (customer uploads the correct files and a comment regarding the job)
      1. 3D Printing
         1. A stl file and jpg (or other image format)
      2. Printed Circuit Board (PCB)
         1. Two txt files, and a gerber file
      3. Laser Cutting
         1. A pdf and jpg (or other image format)
   5. Rent an item
      1. Flags item as rented
      2. Allow multiple lengths of time (days, weeks)
2. Staff can:
   1. Everything a customer can do
   2. View orders
      1. Mark as completed
   3. View customer accounts
      1. Shows all account information
      2. Also shows total “cost” of items the customer has “purchased”
   4. Create kits
      1. Add multiple parts into a “bundle”
      2. Removes individual items from “quantity in stock”
      3. Bundle becomes available as an item for customers
   5. Add item to inventory
      1. Add single part by filling in fields
      2. Upload a spreadsheet to add multiple items (Perry will provide a sample parts list)
   6. Add a new vendor
      1. Add single vendor by filling in fields
      2. Upload a spreadsheet to add multiple vendors (Perry will provide a sample list)
3. Admin can:
   1. Everything staff/customer can do
   2. Create/edit staff accounts
   3. Create/edit customer accounts
   4. Approve new item requests