Concept:

Many shopping centers are willing to put their items on Web so that they can increase their revenue. To do this, they must have a Web application that manages items and lets clients to choose and buy them online.

For this project you must create an application that contains the information needed.

About:

Suppose we have a Shopping center that has its own inventory application and wants to connect this application to a Web application that shows items and provides a platform to sell items.

Requirements:

* Users must create an account
* Users must provide contact information
* Users can select items based on categories
* Users can add items to their basket
* Users can select different types of payments (online, on-receive, …)
* Users can change their profile
* Users can delete items from their basket
* Users can change number of an item in their basket
* Users can see availability of an item
* Users can see detail information about an item
* Admin users can be alerted when an item is sold out completely
* Admin users can see reports of sales based on categories
* Admin users can see a factor to be provided to the user
* Inventory staff should see items to be sent to users
* Each sale transaction can have different states (in progress, ready to send, sent, received, … )
* System Admin users can define, edit and delete admin users

Entities:

* Shopping item
  + Name
  + Id
  + Count in inventory
  + Category
  + Price
  + Size
  + Color
  + Description
  + …
* Category
  + Name
  + Id
  + Description
* Factor
  + Id
  + List of items
  + Status (ready, sent, received, … )
  + Date created
  + Date modified
  + Type of payment
  + Total price
* User
  + Name
  + Address
  + Phone number
  + Credit card number (not mandatory)
  + Username
  + Password
* Admins
  + Name
  + Username
  + Password
  + Department
  + Employee Id
  + Date joined
  + Status (active, suspended, in leave, … )
* System Admin
  + Name
  + Username
  + Password

Duty:

Design an application from UI to DB that meets the requirements with having in mind that requirements may be added in future)

Note:

* You can add properties to entities to have a better design.
* You must include all properties that are mentioned
* There may be different properties based on item’s category
* You can design your database with your desire. That is, it is not mandatory that “employee” table must have a “department id”

Enjoy!