

On the same project we need to add catalog management feature:  
the main information that we need in a catalog are brands,  
categories, models and specs

- Each model has one brand and one category (models can have the same brand and the same category)
- Each brand a specific set of categories
- Each model has a list of specs related to it (models can be related to the same specs)
- take into consideration that specs can be of type.  
1- Input that takes an integer. Ex: height of value 100.

2- Select list of strings. Ex: color, values: red, blue, white, black  
(a product uses one of these values).

3- Multiselect list of strings. Ex: add-ons: keyboard, touchscreen,  
speaker (a product uses multiple values).

1- Implement the required design on the database

2- Allow the admin to manage the catalog, display the data in the following way:  
modelid, modelname, brandname, categoryname, color, addons, height(m)

- 1, model0, brand0, category0, blue, keyboard - touchscreen, speaker, 100
- 2, model1, brand0, category0, red, keyboard , 200