Project Data Model & DB Design

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CS157A - Section 01
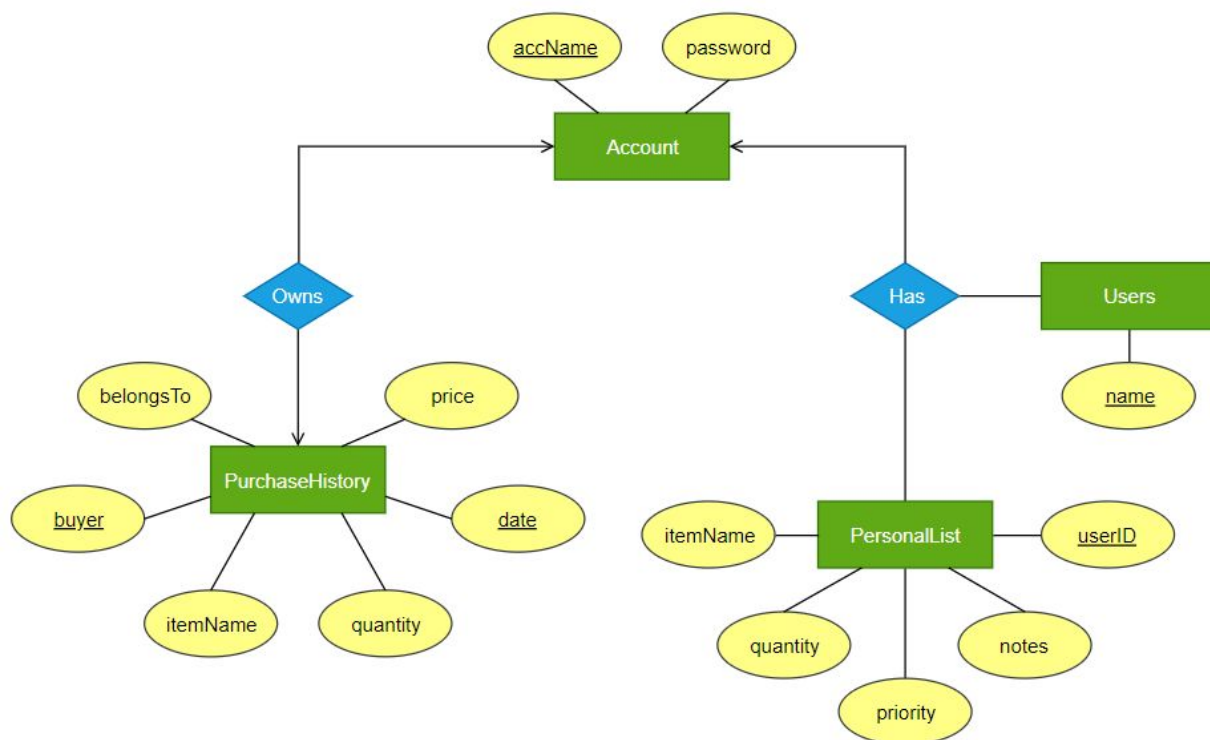
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For our project, we are building an application that will allow households to maintain a centralized shopping list, based on the separate personal lists created by individuals of the household.

E/R Diagram

Descriptions

Through our application, any individual can create an *Account* with a unique *accountName* and a *password* for the respective household. *Users* are then created within the *Account*, representing the different individuals within that household.

Each of the *Users* will have a unique *name*. Every one of the *Users* also has exactly one *PersonalList* which is identified by a unique *userID*.

The entity *PersonalList* also contains the attribute *itemName*, the *quantity* requested, the *priority* of each item, and the attribute *notes*. This is representative of the individual shopping list, held by each of the *Users* within a household.

By default, the *Account* has exactly one *PurchaseHistory*, and each *PurchaseHistory* belongs to exactly one *Account*. Attributes of *PurchaseHistory* include the *buyer* of the item, the attribute *itemName*, the *date* of purchase, the *price* of each item, the *quantity* of the items bought, and the attribute *belongsTo*, which represents to whom's list the *Item* belongs to.