Project Data Model & DB Design
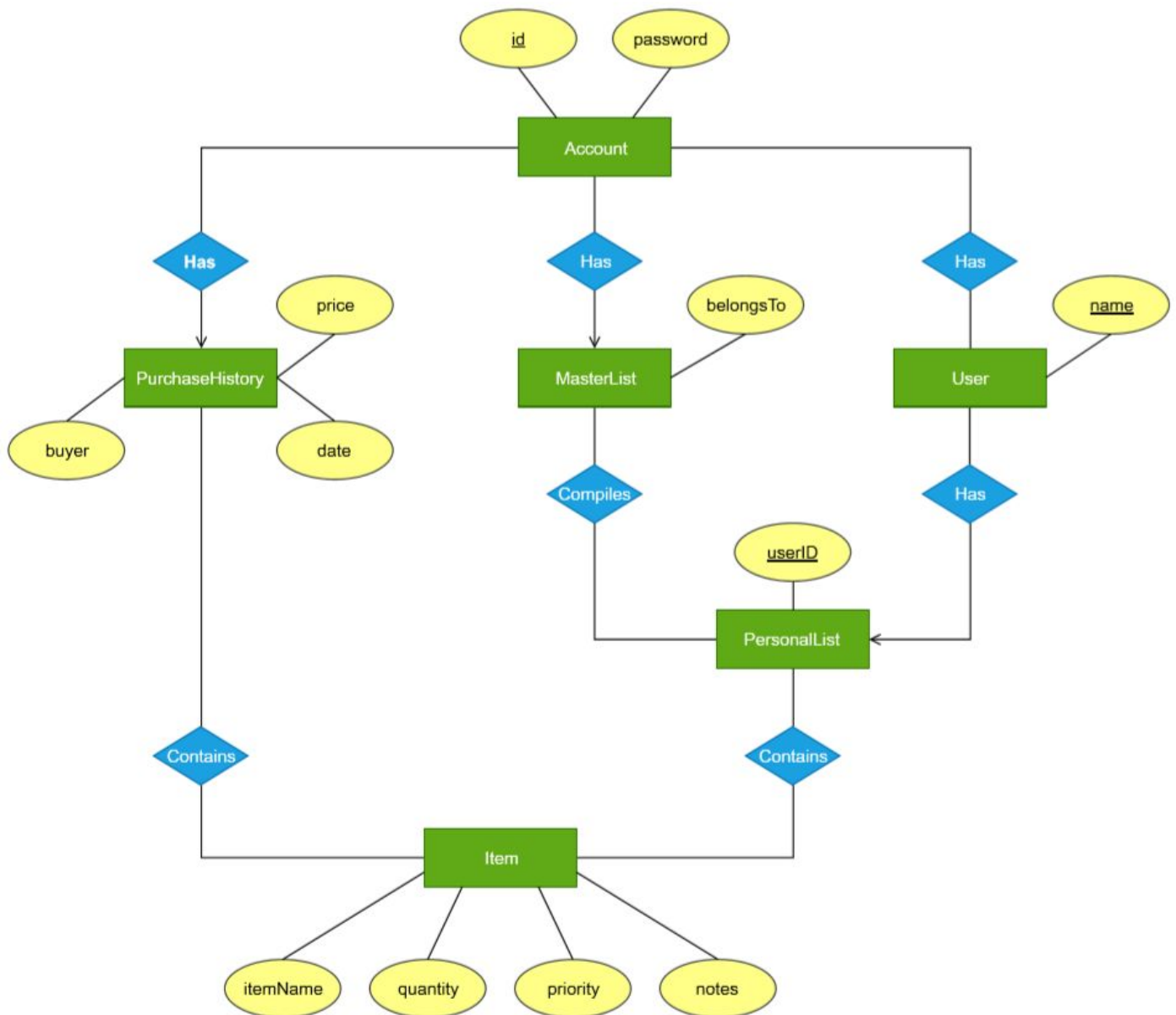
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CS157A - Section 01

Team 39

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Grace To

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E/R Diagram

Description

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.

To start using our program, an individual has to create an *Account* with a unique *id* and a *password*. *Users* are then created within the *Account*, indicating the different individuals within that household. Each *User* will have a unique *name*. Each *User* also has exactly one *PersonalList* which is identified by a unique *userID*.

By default, the *Account* has exactly one *PurchaseHistory* and also exactly one *MasterList*. Attributes of *PurchasedHistory* include the *buyer* of the item, the *date* of purchase, and the *price* of the item. *MasterList* only has one attribute - *belongsTo*, which represents who wants the *Item*. The *MasterList* also compiles all the *PersonalLists* which contains *Items*.

Items have attributes - *itemName*, the *quantity* of the item needed, *priority* which represents the urgency for the wanted item, and also additional *notes*.

When an *Item* is purchased, it is deleted from the *MasterList*, and goes into the *PurchaseHistory*. This explains the why *PurchaseHistory* contains *Items*.