**QuickShop**

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QuickShop is an Android application that makes shopping more efficient. The app was written in Android studio using a combination of Java and XML. Users select a desired grocery store and the app reads grocery store information from a MySQL database and loads it into the app. The optimized list is generated by an algorithm that takes advantage of the standardization of grocery store layouts. The algorithm sorts the users shopping list by item location, and then further optimizes the list by skipping items that can be picked up later in the trip at a more efficient time. QuickShop was designed to have users spend less time in the store, stick to their shopping list, and limit impulse buys. By creating an optimized list through the store based on the users shopping list, QuickShop makes shopping more efficient and less stressful.