Abstract

People who go shopping without any shopping list usually forget to buy some items that they need to buy and sometimes they do not even know what items they should buy. In addition, they might not get the cheapest price offer from the stores they decide to go. Smart Shopping project is an android application that helps you to manage your household inventory, suggests you smart shopping decisions to get good price product around your area and summarize your shopping history to help you manage your budget easily. In this project, we use optical character recognition(OCR) and the Levenshtein Distance algorithm to read a shopping receipt and add those items into your inventory. To create a shopping list, there are two options which are optimizing price using Set Covering and Greedy algorithms and optimizing trip. We expect users to manage their household inventories and make a better shopping decision with ease.