Model:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-DatabaseReader: dbr: holds 3D array of item prices. Size: 500.

-Target: tg: Conducts HTML Scraper Target

-MarketStreet: ms: HTML Scraper MarketStreet

-Walmart: wm: Scrapes Walmart on Marsha Sharp

-gList: grocery list (of gItems)

-gItem: object with the name and price

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

<<Constructor>> DatabaseReader: preloads database.txt

+getPrice: from database

+getPrice: from scrapers

+getLowestPrice: (for Walmart) returns lowest price from a range.

View:

-Grocery App / UI

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

<<Constructor>>Grocery\_UI\_APP: preloads initial values

+compare(button): checks db and scraper

+add(button) : adds item to list view

+remove(button) : removes item

+reset(button) : removes all

+textField() : for user to enter item name

+listView() : displays list of items

Controller:

-Main:

-DatabaseWriter:

-Crawler

-SearchGenerator

-WalmartCrawler

-WebScraper

-Crawler

-WalmartCrawler

-SearchGenerator

-WebScraper

-Quick Scrape

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

+getURL

+grabPage(from Scraper): collects large list of items based on html tags

+getRawElement: locates item from large list of item tags

+Crawler: ArrayList: holds list of crawls

Database:

-database.txt : Database: contains a 3 column like text file that stores and saves prior entries for rapid use.