## 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

## 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

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-gList: grocery list (of gItems)

-gltem: 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

## Database:

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