**Final Project Statement of Work Template**

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| Group 8 |
| Destin Mingledoff |

**Group Number:**

**Group Leader:**

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| Andrew Majewski, Destin Mingledoff, Silas Johnson |

**Names of Group Members:**

**Summary of what your program will do (be very specific):**

**A) - Reads from a json File that stores monetary item (grocery, etc) data relative to different stores (like asset data for walmart and kroger), sorts this data to be printable to the user, and easily implementable in other parts of the program when called.**

**B) - Receives User input: Will read users ‘shop list’ from json file; Will also search through the data from the json file to find the cheapest store for each item entered in by the user. It will tally which store is the cheapest for that item each time it compares the price of an item to other stores (competition).**

**C) - Prints out which store is the cheapest overall after accounting for all items.**

**\* Gives a percentage on how much cheaper the cheapest store is from other options. (Like those recipe websites that order through instacart).**

**Classes:**

**Inheritance:**

**First class: parsing**

**Second: calculation (Inherits from 1st class, this will be our polymorphism class)**

**Third: pretty print. (Inherits from 2nd class)**

**Json file (Can import/load into a struct)**

**Struct Store\_Name:**

**String StoreName;**

**String ItemName;**

**Double StorePrice;**

**int ItemID;**

**string**

* **Item ID: main way to reference the data.**
* **Store name:**
  + **Kroger**
  + **Meijers**
  + **Walmart**
* **Store price:**
* **Items name:**

**5 item limit (For now)**

* **Apple**
* **Blue Berries**
* **Apple Juice**
* **Milk**
* **Bread**

**Notes:**

* **Override an operator for outstream <<.**
* **We will divide up more work as we go through the assignment.**

**Decomposition with Assignments:**

Use the space to list the decomposition or outline of your program. Next to each section, provide the name of the student who will be working on that portion.

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| **Decomposition** | **Responsibility** |
| Setting up main to be compatible with each-others code. | Everyone |
| Parsing | Functions will be divided up. |
| Calculation | Functions will be divided up. |
| Pretty Printing | Functions will be divided up. |