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CS 2400-01

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## SCR Project Proposal

### **Executive Summary:**

Our goal to improve the Lopez Urban Farm is to create a customer service application using Java. This application will help the workers track the number of visitors, the donations, and the date the visitors came to the farm. Also, this application will store the information in an organized file to make it easier to read and log.

### **Project Background:**

The Lopez Urban Farm currently uses a pen and paper clipboard to log the number of visitors, the donations received, and date they came. This method of using a clipboard has been unreliable and ineffective, and workers would like a more efficient alternative.

### **Solution:**

Our solution is to create a Java application to create a more efficient way to log these values. This application will ask the user for the date, then number of visitors and finally the different donation types. These values will be stored in a list ADT but because the donations may be multiple items which could contain duplicates, we will use a bag to store the donations. In addition to these values, each group of visitors will be given a group ID in order for easy access when looking at the data. We are hoping to use a spreadsheet to display this data based on the days.

### **Deliverables and Goals:**

- A Java application that can be used to help log important information about visitors and their donations

- Increase efficiency with logging visitor information
- Help organize visitor information with spreadsheets

### Required Resources:

- In order to use Java application - computer
- Total Budget - \$0

### Conclusion:

In conclusion, we will use two different data types, the bag and list, to log numerical data about visitors and donations in a compact spreadsheet-style format. By implementing this change in the Lopez Urban farm, we are expecting to increase efficiency with tracking data with visitors to improve the overall farm experience.

### Images of Previous Logging System:

A handwritten logbook page with columns for DATE, VISITORS, CLOTHES, FOOD, and HYGIENE. The records are as follows:

DATE	VISITORS	CLOTHES	FOOD	HYGIENE
9/3/23	2	- Baby oil, balloon		
9/4/23				
9/6/23				
9/7/23	8	- Baby clothes, child's clothes	- Canned food, Peanut butter, Jelly	- money (cash)
09/08/23				
09/09/23	1		- Canned food, Tea, Bag of beans	
09/10/23	5			
09/11/23				
9/12/23	10	Shoes	- canned food, bag of beans, box of pasta, bread	
9/15/23	12	- Clothes, Diapers, Baby clothes, Toys, Beans, Cans	- bread, baby oil, clothes, what food, cereal, beans, a can food, some cheese	- first aid kit, sunscreen, vitamins, gloves
9/16/23	5/6			
9/17/23	3	0	0	0
9/18/23	6	0	0	0
9/19/23	2	0	0	0

A handwritten logbook page with columns for Date, Visitors, and Donations. The records are as follows:

Date	Visitors	Donations
9/24/23	0	
9/29/23	4	- Blanket (wash?)
9/30/23	4	- Box of food, Baby clothes, Canned food, Pasta, Oats
10/1/23	8	Starbucks cups
10/1/23	4	- Hangers (box), Women's T-shirt, Parasol, Scarfs & hat, Socks, Glue & sutures, Sweaters, Men's, Shirt & pair shoes, Baby clothes
10/7/23	8	- 2 bags of clothes
10/18/23	4	
10/19/23		Shoes, Baby chair
10/17/23	9	- Chairs, 9 bags of baby clothes, box full of canned, bags of rice food