

CS 352 Project Proposal

Smart payment application for superstores

The application will show a list of superstores in the area the user lives in. When the user visits a superstore s/he will select which store they are in, and the application will present an empty 'Basket' list for that store.

When the user selects an item they want to purchase, s/he will select the 'Scan Item' option which will activate the application's barcode scanner. The user then points the phone's camera at the item's barcode which automatically scans it and adds the item along with the cost to the 'Basket'.

Some products don't have barcodes, e.g. if the user buys groceries, s/he will need to select 'Add Item' and enter the type and weight of the grocery they're buying. However, this means that unless we include a weighing scale in particular sections of the store, this application must be made specifically for barcoded items.

Every time the user adds an item, the basket will update and display the total cost at the bottom of the list. When the user is done shopping, they can select the 'Pay' option which will allow them to make a payment over the phone. The application then prompts the user if s/he wants an e-receipt.

This application will help users with budgeting by keeping track of changes in total cost as they add/remove each item. It will also keep a record of what items they had previously bought from the store for future reference. The user will no longer have to head to the cashier or the self-checkout section as this is more convenient.