

SmartCart : Operating Instructions

How to turn on and operate SmartCart

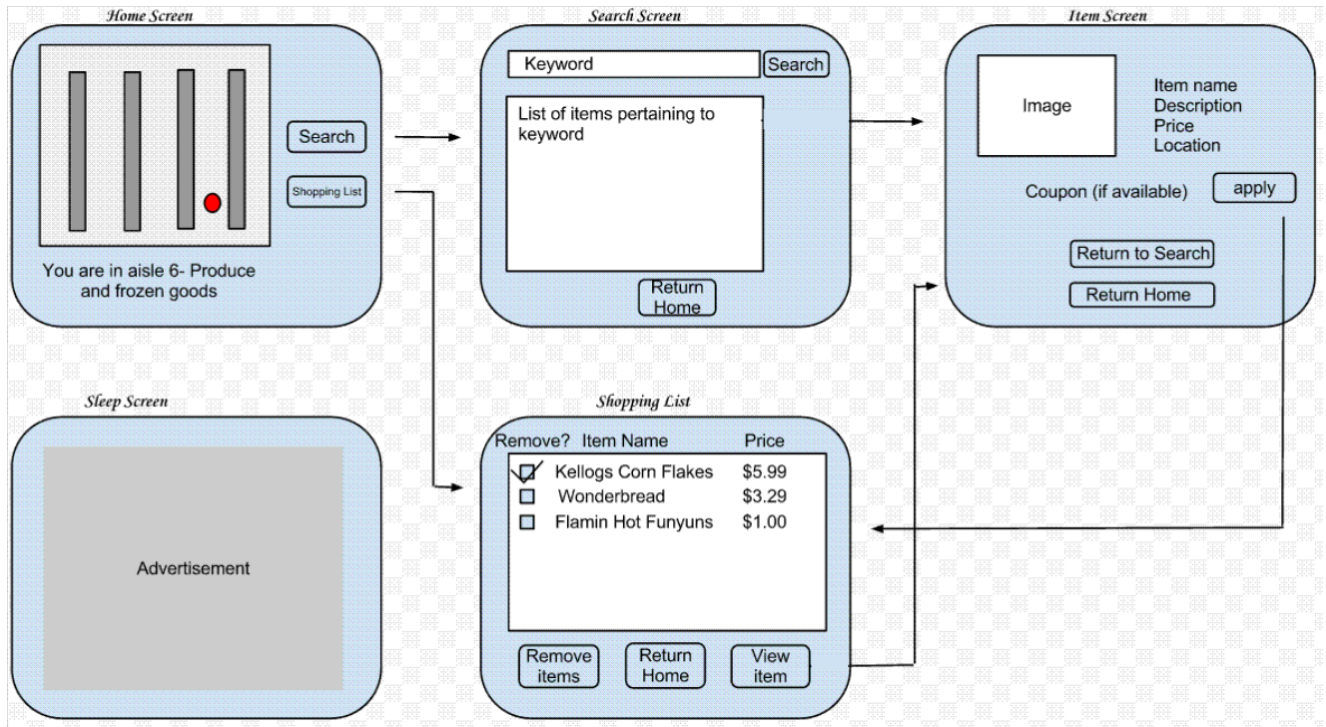
Power up:

Use Controls Reference for the following steps:

<http://www.ece.ucsb.edu/Faculty/Johnson/ECE189/controls/smartcart.pdf>

1. Make sure switches are in correct Power Up positions:
 - **Component 5:** Bootloader for processor
 - SET RIGHT [NOT IN BOOTLOADER MODE]
 - **Component 6:** ~Reset for processor and TFT connector
 - SET LEFT TO RESET
 - **Component 7** ~Forceoff for Level Shifter
 - SET LEFT [TO USE LOGIC HIGH]
 - **Component 8,** Forceon for Level Shifter
 - SET LEFT [TO USE LOGIC HIGH]
 - **Component 9.,** Connected to NOTHING
 - SETTING IRRELEVANT SINCE ITS CONNECTED TO NOTHING
 - **Component 10,** 10. Switch (S2), Reset for RFID module
 - NEVER RESET MODULE or else complications will arise and RFID system will no longer work due to voltage changes.
2. Apply power to:
 - **5V to Component 11,** RS232 DB9 DTE Connector,
 - **5V to Component 17,** Barrel Power Jack Connector ,
 - **19.2V to Component 14,** Barrel Power Jack Connector - Optional Backlight Power for TFT
3. Wait for system to boot

User Interface:



Boot mode to install code:

Code Installation using LPC2000 Flash Utility:

- Make sure switches are in correct positions:
 - Component 5**, Bootloader for processor
 - SET LEFT (IN BOOTLOADER MODE)
 - Make sure to **reset** board
 - Component 6** set left, then back to right position
- Make sure LPC2000 settings are correct
- Click Upload

Putty for debugging :

- Make sure switches are in correct positions:
 - Component 5**, Bootloader for processor
 - SET RIGHT
 - Make sure to **reset** board
 - Component 6** set left, then back to right position