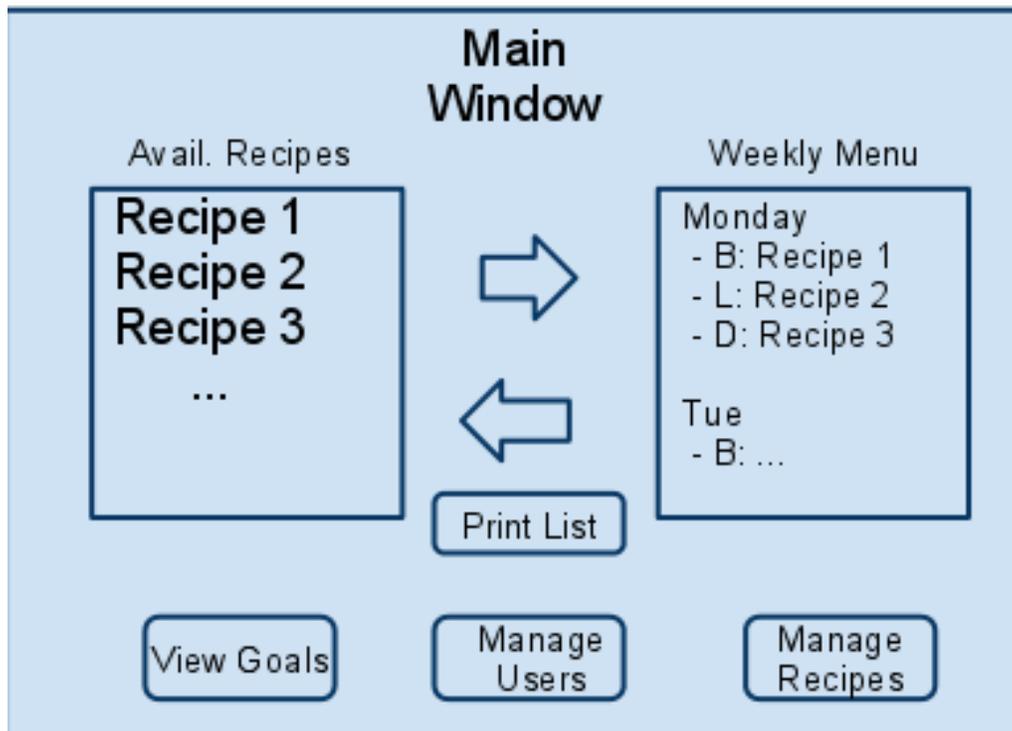


## Implementation Plan

### Phase 1: Working GUI :: 3 days

- Main GUI class (the “frame”)
- Main GUI class panels:
  - Recipe Panel - displays the list of recipes
  - Menu Panel - displays the weekly menu list
  - AddRemovePanel - displays buttons for adding and removing recipes from the weekly menu
  - Button Panel - holds buttons for:
    - View Goals
    - Manage Users
    - Manage Recipes
    - Print List
- Necessary “data type” classes:
  - RecipeBox
  - MenuList
  - we’ll “fake” data until Phase 3



### Phase 2: Users, Recipes, and Goals :: 3 days

- Sub-windows of GUI:

- ~~Manage Users - displays list of users + goals (Ryan)~~
  - ~~Add/Edit/Delete user -- additional window to modify a User~~
- ~~Manage Recipes - displays list of recipes (Ryan)~~
  - ~~Add/Edit/Delete recipe -- additional window to modify a Recipe~~
  - ~~Where should Rating fit in?~~
- **View Goals -- just a display**
  - **Display goal nutrition totals (summed from all users)**
  - **Display weekly menu nutrition totals (summed from all meals for week)**
- Necessary "data type" classes:
  - UserInfoCollection
- Necessary "model" classes:
  - Recipe
  - Ingredient
  - UserInfo
  - Enumerated class to hold nutritional fields?

**Manage User(s)**

User	Calories	Fat	...
John	1500	25	...
Jill	1200	20	...
<b>Totals:</b>	<b>2700</b>	<b>45</b>	...

Add

Edit

Del

**Goal Viewer**

**Goal**  
Calories 18,900  
Fat 300  
Sugar 250  
...

**Actual**  
Calories 17,850  
Fat 285  
Sugar 220  
...

Edit Goals

### Phase 3: Saving, Calculating, and Printing :: 3 days

- ~~User and Recipe File I/O:~~

- ~~Saving Users and Recipes~~
- ~~Loading those saved objects~~
- ~~These classes should implement Serializable interface~~
- **Algorithms needed:**
  - **Scaling algorithm to fit weekly meals to nutritional goals**
  - **calculation algorithms for ingredient quantities?**
- **Printing:**
  - **Organize and print Ingredients from Recipes in MenuList**
  - **Organize and Print individual Recipe**
  - **Print preview?**

Print shopping list example:

**Print Options**

Review your shopping list before printing. Click Cancel to add or delete items.

allrecipes.com

## My Shopping List

Tuesday, April 12, 2011

### Recipes

---

**Kitchen Approved Recipes** (ingredients are sorted in Grocery Items below)

Quinoa and Black Beans (10 servings)

#### Grocery Items

---

**Baking Supplies**

3/4 cup quinoa

**Basic Cooking Ingredients**

1 teaspoon vegetable oil

**Canned Foods**

2 (15 ounce) cans canned black beans

**Frozen Foods**

1 (10 ounce) package frozen corn

**Herbs and Spices**

1/4 teaspoon cayenne pepper       1 teaspoon ground cumin

1/2 teaspoon salt

**Natural/Organic Foods**

1 (14 ounce) can vegetable broth

**Produce**

1 bunch cilantro       3 cloves garlic, whole

1 onions

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### Phase 4: Testing & Polishing :: 3 days

- **Make sure everything works**
- **Add Helpful Hints feature (remember we agreed to these?)**
- **Create 1-page help document (we agreed to this, too).**

- Pretty-ify things (splash screen?)
- Consider additional features if we're done **super** early
- **Cover how we'll demo the app for presentation**