

# Dinnerbell

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# System Concept

**Dinnerbell** makes planning and **organizing meals** with your friends much easier.

The app allows you to **invite friends** and **create groups** to easily invite all your friends to a meal at the time and place of your choosing.

Choose between **three unique meal types** to invite your friends to a home cooked meal, a sit-down restaurant, or order food for everyone.

# Requirements

# General Requirements

- Two types of users

- Meal Master
- Food Consumers

- 5 Core Tasks


- Create groups
- Schedule meal
- Edit profile
- Accept meal
- Invite friends

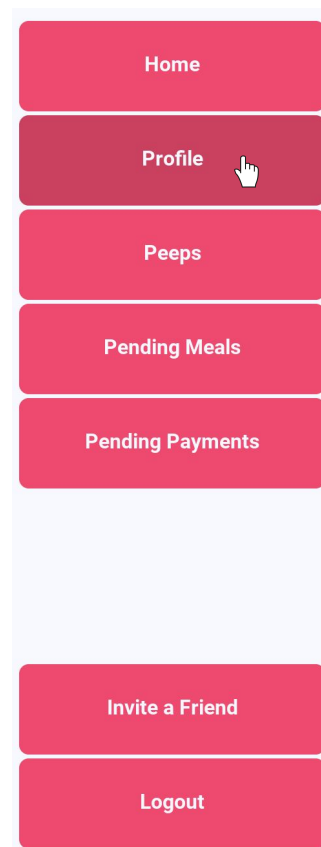
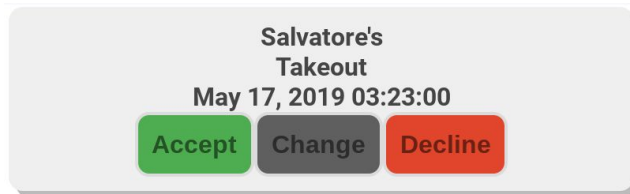
# General Requirements

- Metaphors

- Dinnerbell is a metaphor for the gathering of individuals to a meal, depicted by an individual ringing a bell and yelling something to the degree of “Soup’s on!”
- Dinnerbell stands as a metaphor for a planner, or calendar. It’s use as a form of time management while doubling as a reminder and time keeper

# General Requirements

- Color
  -  #EF476F
- Column-format
- Consistent feedback
- Standard Conventions



# Design Requirements

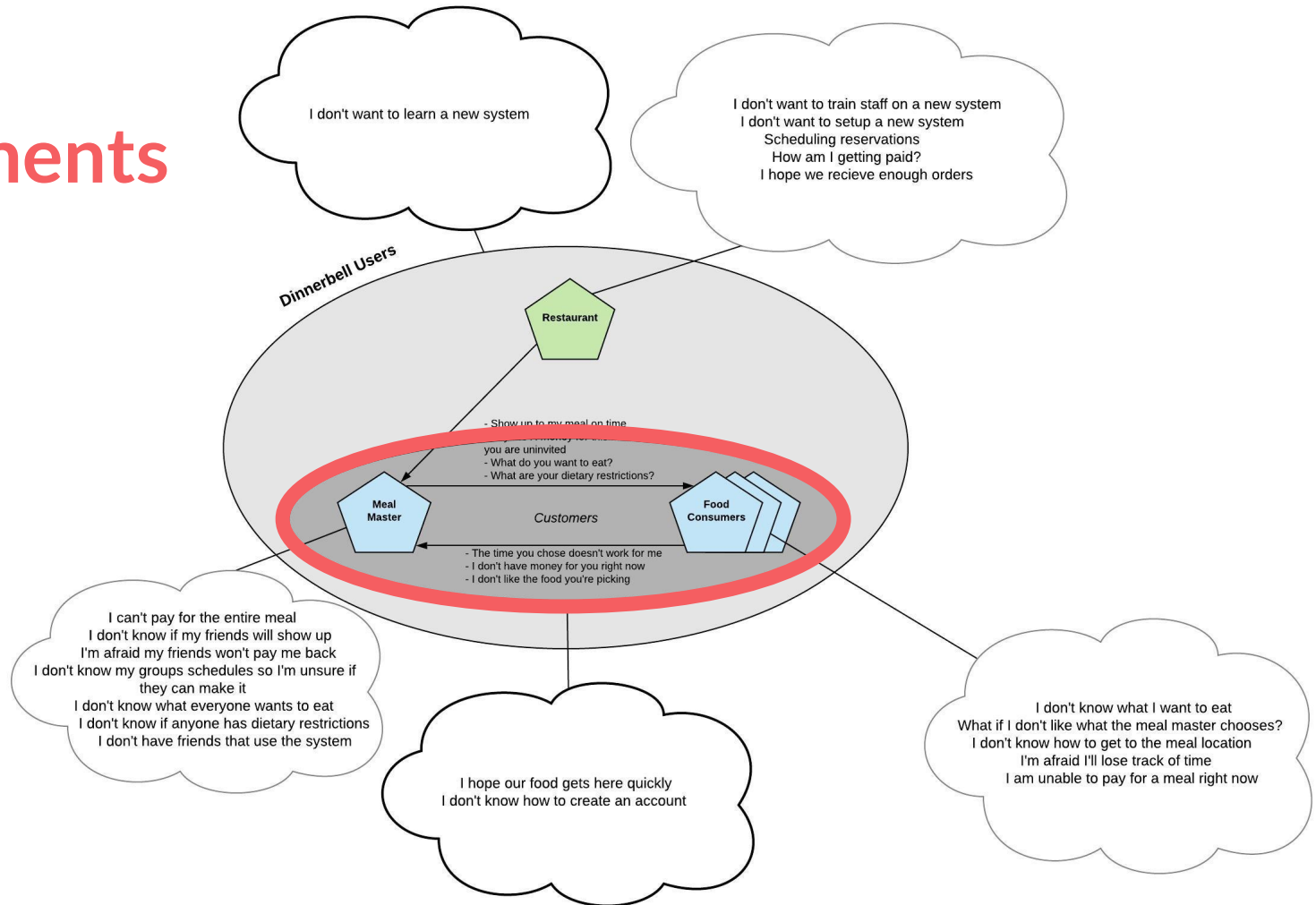
- **People Management**
  - Easy to organize your friends into groups
- **Time**
  - Easy to pick a time and be reminded about that time
- **Place**
  - Easy to pick a place for everyone to meet
- **Bill Splitting**
  - Easy to know how much money you owe someone for a meal
- **Meal Type**
  - Easy to pick between eating at home vs eating out vs ordering food

# Usability Requirements

- M** Users shall be *reminded* when there is an upcoming meal.
- U** The first time a user is a Meal Master, they will be *guided* through each step of creating a meal group.
- L** Users will be able to schedule a meal *without any errors* on their second attempt to create a group meal.
- E** Users will be able to schedule a meal in *under two minutes* on their second attempt to create a group meal.
- S** Dinnerbell will have at least *4 out of 5 stars* on any user review platform.



# Usability Requirements



# Design Evolution

# Initial Concept

- Make planning a meal with friends easier
- One person decides on a meal time and location
- Target demographic → college students

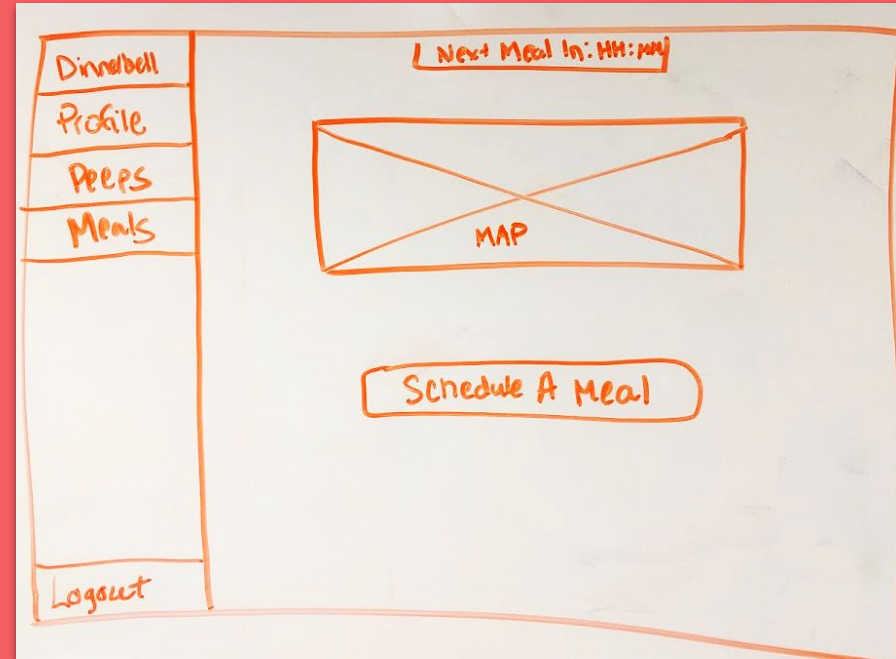
# Learned from Interviews

- Suggested a lot of nice QoL changes we hadn't thought about
  - Chat for meals
  - Allergens/Dietary restrictions
  - Allow group members to suggest a new time if the time doesn't work for them
- A lot of feedback told us we were going in a good direction with this app
  - Convenient to give a meal notification
  - Not have to look through an old group chat

# Design Evolution

## Low-fidelity Wireframe

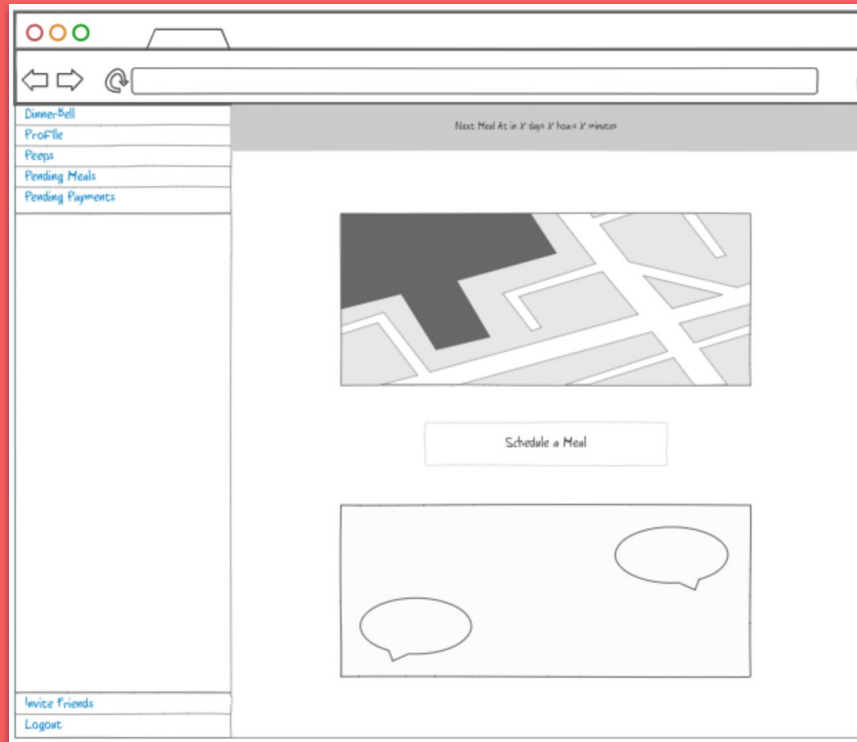
- Lays out base design
  - Navigation
  - Minimal menu
- Ad-Hoc construction
  - Minimalism
  - Markers
- Missing future elements
  - Pending payments
  - Chat
  - Invite



# Design Evolution

## Mid-fidelity Mock

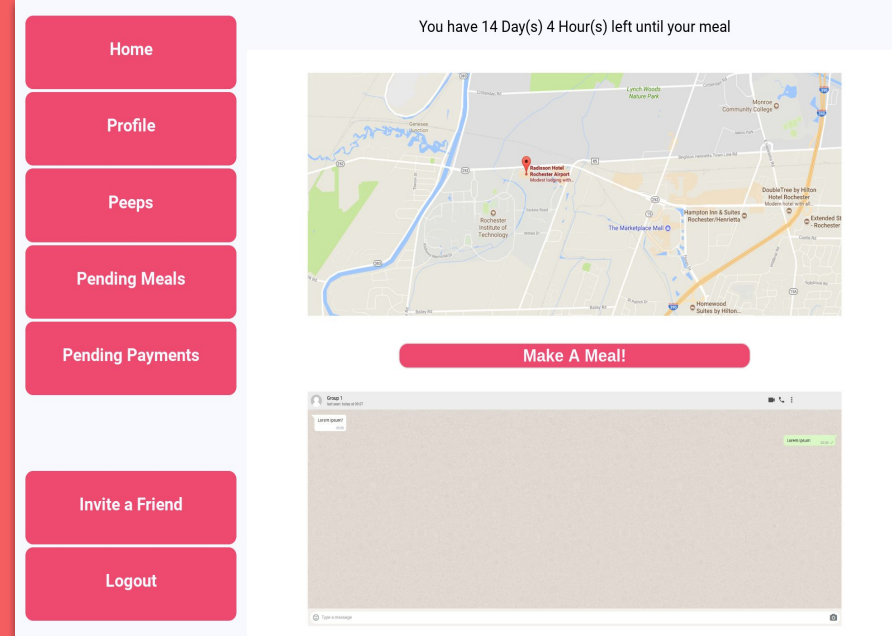
- Mock with some real functionality
  - Groups
- Took a lot of the user input into consideration
  - Back Buttons
  - Responsive Feedback
- Much better for showing others our idea

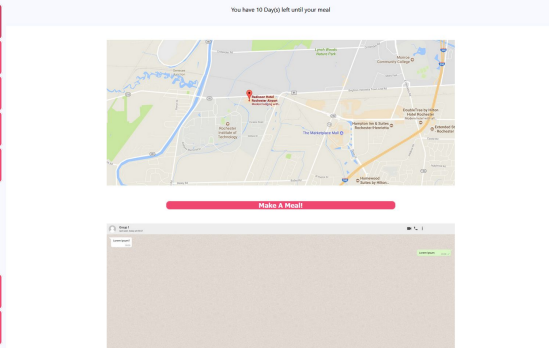
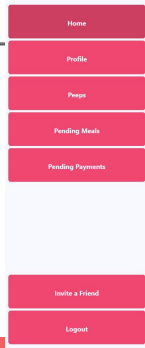
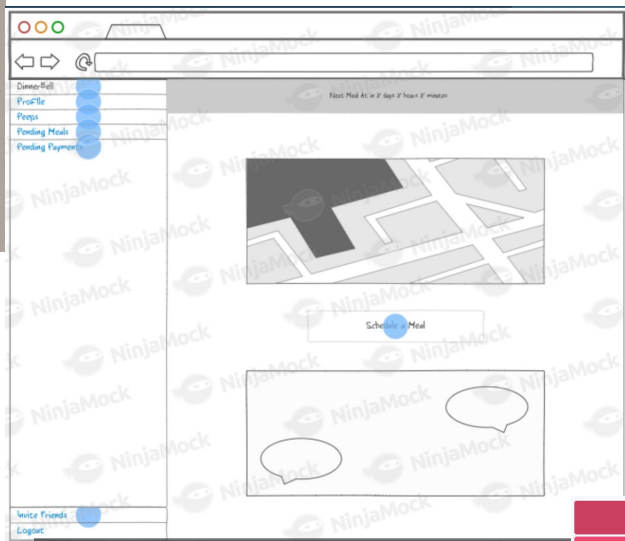
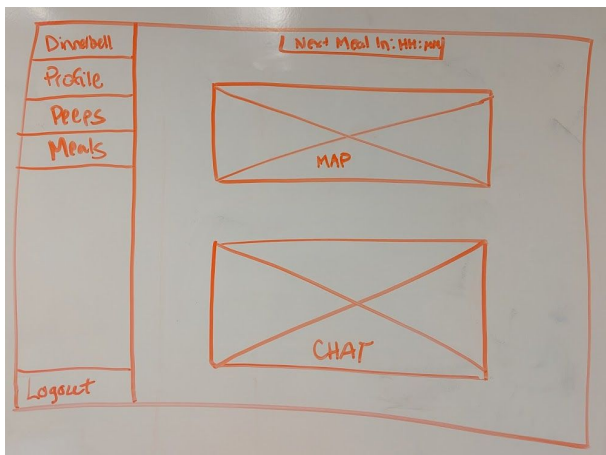


# Design Evolution

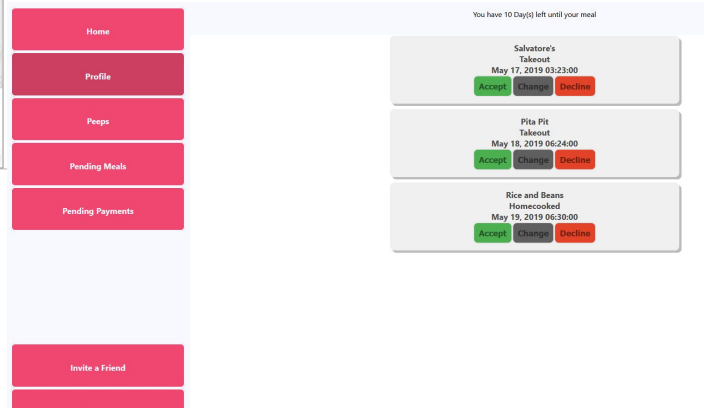
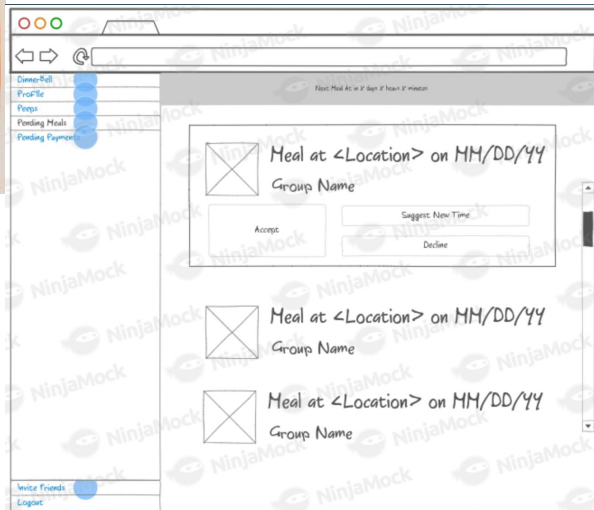
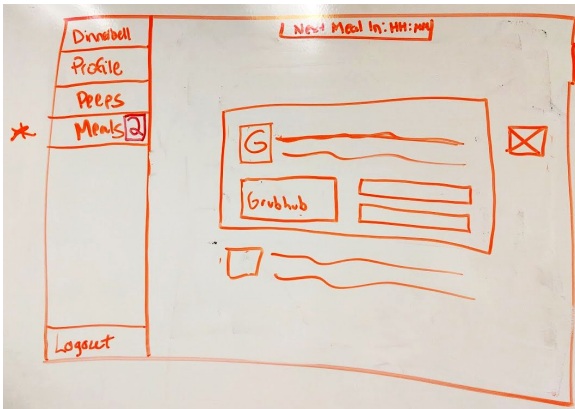
## High-fidelity Prototype

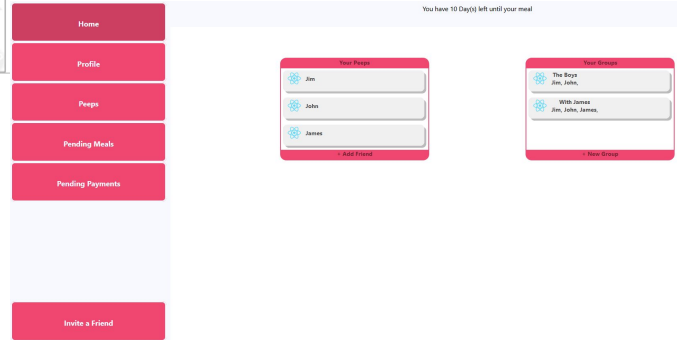
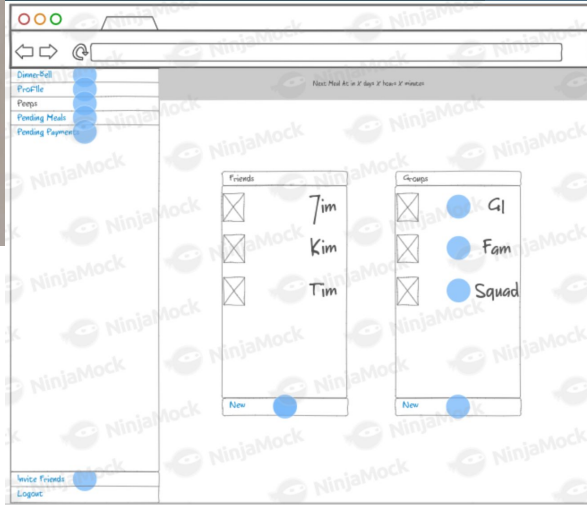
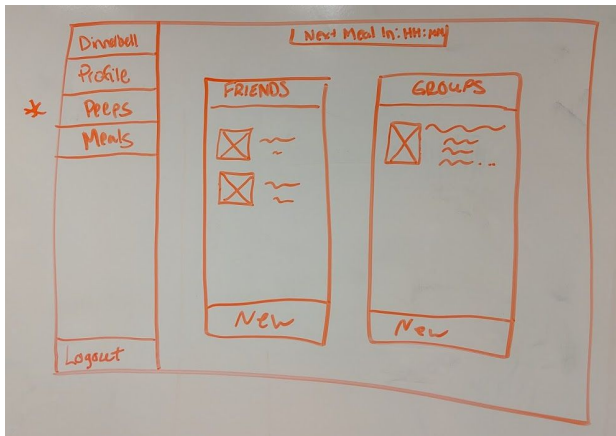
- Responsive Design
- Single Page Application
- Added color and style
- Able to navigate like with the mock, but also functionality
  - Create groups
  - Schedule meals
  - Edit profile











# Evaluation

## Pros

- Color Design
- Useful Concept
- Responsive

## Cons

- Confusing Naming Scheme
  - Odd Grouping of Functionality
  - Confusing Group Creation
  - Web App, not Phone App
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Demo

# Reflection

- Process
  - Information gained from User Testing
- Prototyping
  - Not Enough Time
  - Unclear Design Philosophy
- Usability
  - Keyboard Users
  - Screen Readers

**Thank You**

<b>Deliverable 9: Presentation and Final Release (100 pts)</b>			Of 100
Final Release (50 pts)			
README file complete and accurate (20 pts)			
Running prototype - subjective review, is this a "good" interface to support user goals and a positive UX? Are severe usability issues addressed? Is the prototype sufficiently complete to yield meaningful user testing results? Degree of difficulty and the state of completion versus the specified requirements are also factors. (25 pts)			
Status report updated (5 pts)			
Presentation (50 pts)			
Content (45 pts)			
System concept summary			
Design and usability requirements			
Discussion of design evolution and rationale from concept to detailed design			
Task based system demo, trace to requirements, how were usability requirements met, (30			
Evaluation and reporting - discuss significant formative evaluation findings, your usability testing data analysis and findings, changes made as a result of usability testing			
Project reflection			
Style (5 pts)			
Conveyed message/info clearly, prepared, professional, time used effectively, answered questions appropriately			

## **Deliverable 9: Presentation (50 pts) and Final Product with Updates (50 pts)**

At the end of the semester, your team will give a 20-minute **presentation** of your project. Your talk will need to discuss the following:

1. Summarize the **system concept**.
2. Summarize the **interactive design and usability requirements** in reference to the primary **work roles**.
3. Discuss how your **design evolved** through conceptual, intermediate, and detailed designs. Show sample screen shots. Explain your design rationale as the design evolved. What metaphors, affordances, and design principles were employed?
4. **Demonstration**. Demonstrate your design and implementation via a live demo of your system, working through the five tasks. How were usability requirements met in the design?
5. **Evaluation and Reporting**. Discuss the major findings from your evaluations (cognitive walkthrough, heuristic evaluation, and user testing). Include a discussion of the testing data you collected and your analysis. Did you meet the usability requirements? Show traceability between problems identified and subsequent changes to the design.
6. **Reflection**. Reflect on what went well and what could be improved in the project, particularly relating to usability but also for general software engineering concerns.