

Specification, Prototype, & Design

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Executive Summary

The MyMealPlanning web app enables users to be quick and creative in their meal planning by adding and updating meals to drag and drop onto their meal calendar.

Persona

Jackie is a 35 year old stay at home mom who loathes monthly meal planning because she lacks the time and drive it takes to plan out her monthly meal calendar. She usually pencils into her calendar the dinners her family will eat for the coming month wishing the process could be quicker.

Scenario

Through her Google Chrome browser, Jackie opens the meal planning web app which shows this month's meal calendar. With a single click she goes to the next month. She adds several meals to the calendar by dragging them from her list of meals and dropping them on the appropriate days. Having seen a cool new recipe on Pinterest she creates a new meal, adds the recipe info and then drags the newly created meal onto her calendar. Done! She has a great looking calendar with a new promising meal, knowing her family will enjoy dinner this month.

Evaluation Criteria

Priority 1: Jackie needs to be able to fill out her monthly meal plan while possibly creating new meals in an hour (Efficiency).

Priority 1: Jackie needs a way to create new meals quickly with a few keystrokes and clicks (Efficiency).

Priority 1: Jackie needs to be able to view the entire month's meals (Visibility).

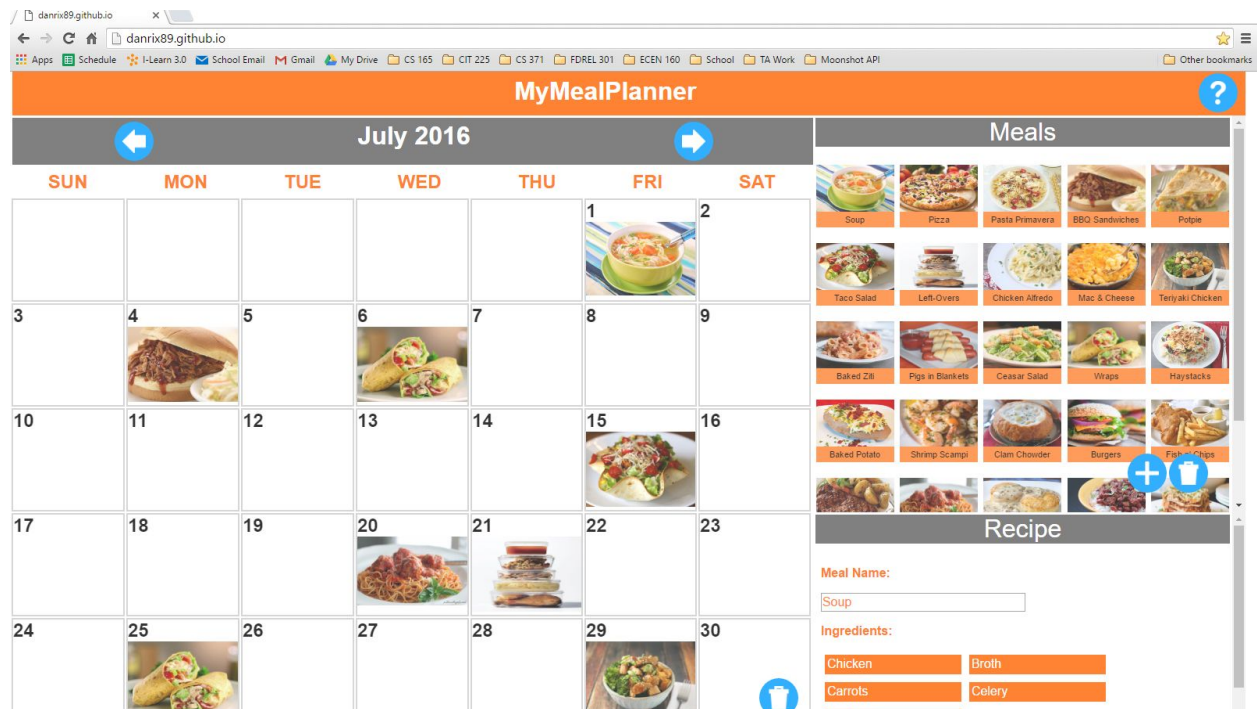
Priority 1: Jackie needs to see saved meal information: meal name, ingredients, and recipe instructions (Visibility).

Priority 2: Jackie should be familiar enough with the meal planning interface to be able to navigate through, add/remove items, and see meal data (Familiarity & Learnability).

Priority 3: Jackie would like a more appealing interface to make this mundane process more fun (Motivation).

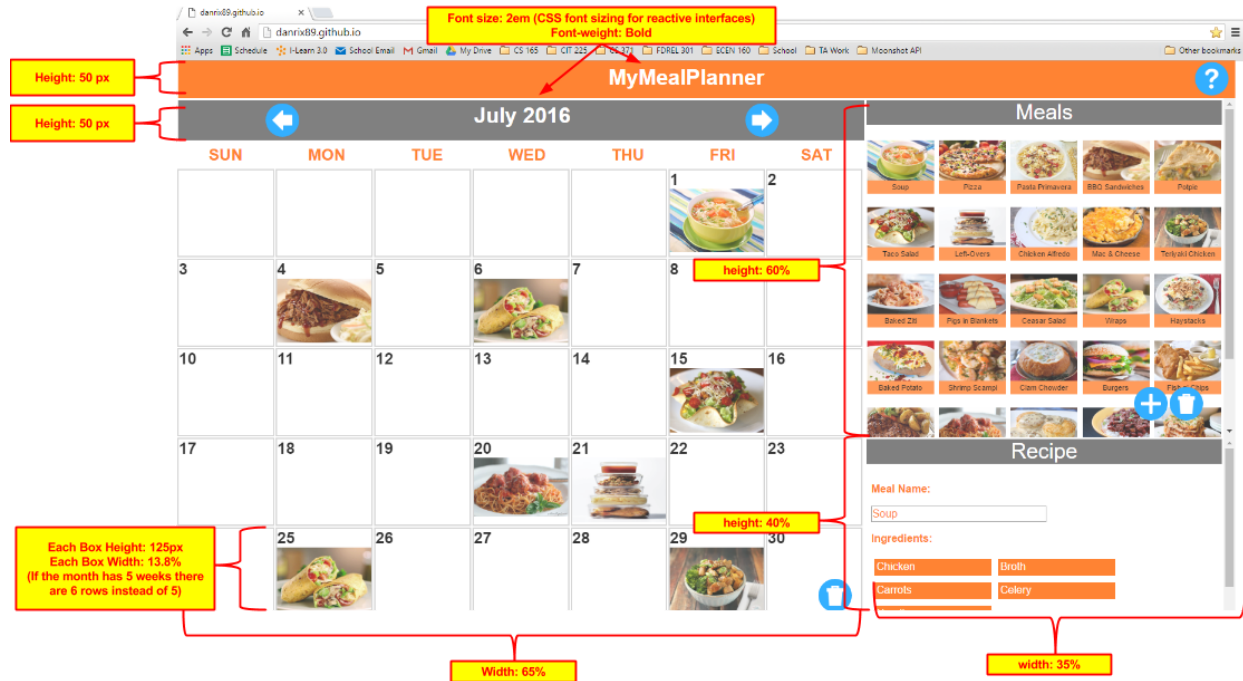
Prototype

The main interface:



Detailed Design

Layout Measurements & Styling:



Overall Schemes (NOT IN EDIT MODE):

- All fonts font-family: Arial
- Only 5 colors used: #ff8333 (orange color), #33afff (blue color), white, gray, & black
- Circle button size properties: (w50px / h50px)

```

calendar_title_item {
  background-color: gray;
  min-height: 50px;
  width: 100%;
}

key_calendar_title_container {
  padding: 0;
  margin: 0;
  list-style: none;
  display: flex;
  flex-direction: row wrap;
  justify-content: space-around;
}

key_calendar_title_item {
  background-color: gray;
  padding: 5px;
  border-radius: 5px;
  color: white;
  font-weight: bold;
  font-size: 2em;
}

calendar_button {
  border-radius: 200px;
  border: 2px solid gray;
  height: 50px;
  width: 50px;
  background-color: #f3aaff;
  opacity: 0.8;
  transition-duration: 5s;
}

calendar_button_image {
  height: 50px;
  width: 50px;
  color: orange;
  margin: 10px;
}

```

July 2016						
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
	4	5	6	7	8	9
	11	12	13	14	15	16
3						
10						
17	18	19	20	21	22	23
24	25	26	27	28	29	30

```

key_calendar_days_of_week_container {
  padding: 0;
  margin: 0;
  list-style: none;
  display: flex;
  flex-direction: row wrap;
  justify-content: space-around;
  background-color: white;
}

key_calendar_days_of_week_item {
  padding: 5px;
  color: #f3aaff;
  font-weight: bold;
  font-size: 1.5em;
}

key_calendar_body_container {
  padding: 0;
  margin: 0;
  list-style: none;
  justify-content: space-around;
}

key_calendar_body_item {
  margin: 10px;
  padding: 0;
  border: 2px solid gray(0.0.0.2);
  background-color: white;
  font-weight: bold;
  text-align: center;
  width: 13.8%;
  height: 125px;
  opacity: 0.8;
}

calendar_loading_remove_button {
  display: inline-block;
  width: 50px;
  height: 50px;
  background-color: #f3aaff;
  border-radius: 200px;
  text-align: center;
  line-height: 50px;
  font-size: 1.5em;
  bottom: 70px;
}

```

```

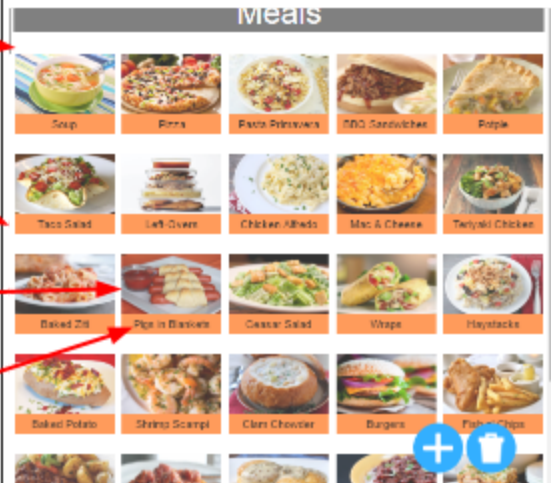
.meal_list {
  background-color: white;
}

.flex-meal-container {
  padding: 0;
  margin: 0;
  list-style: none;
  display: flex;
  flex-flow: row wrap;
  justify-content: space-around;
}

.flex-meal-item {
  background-color: #f6500;
  width: 100px;
  height: 80px;
  margin-top: 20px;
  text-align: center;
  opacity: 0.8;
}

.meal_name {
  color: black;
  font-size: 11px;
}

```



```

CSS FORMATTING

.meal_editor {
  background-color: white;
}

.meal_editor_and_list_title {
  text-align: center;
  background-color: gray;
  color: white;
  font-size: 2em;
  margin: 5px;
}

.meal_editor_body {
  padding: 10px;
}

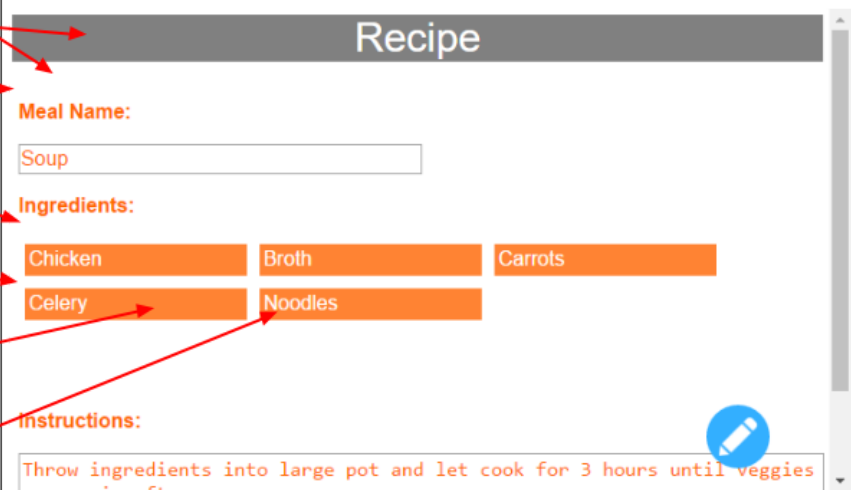
.ingredient_list {
  background-color: white;
  min-height: 100px;
  overflow-y: auto;
}

.flex-ingredient-container {
  padding: 0;
  margin: 0;
  list-style: none;
  display: flex;
  flex-flow: row wrap;
}

.flex-ingredient-item {
  margin: 0;
  padding: 0;
  background-color: #f6500;
  width: 175px;
  height: 25px;
  margin: 5px;
}

.ingredient {
  margin: 3px;
  padding: 0;
  padding-right: 3px;
  color: white;
  font-size: 16px;
  text-align: left;
  float: left;
}

```



Recipe

Meal Name:

Ingredients:

Chicken

Broth

Carrots

Celery

Noodles

Instructions:

Throw ingredients into large pot and let cook for 3 hours until veggies

CSS Formatting:

```

.remove_ingredient_button {
  margin: 3px;
  padding: 0;
  background-color: white;
  color: #f83333;
  font-size: 1em;
  text-align: center;
  border-radius: 200px;
  width: 20px;
  float: right;
}

.ingredient_add_field_and_button {
  display: inline-block;
  height: 25px;
  width: 25px;
  background-color: #f3aaff;
  border-radius: 200px;
}

.meal_list_floating_cancel_button {
  display: inline-block;
  height: 50px;
  width: 50px;
  background-color: #ff4500;
  border-radius: 200px;
  position: absolute;
  bottom: 5%;
  left: 75%;
}

```

JavaScript Dynamic CSS Formatting:

```

document.getElementById("edit_button").src = "images/controls/check.png";
document.getElementById("edit_button").parentElement.style.backgroundColor = "#f83333";
document.getElementById("cancel_button").parentElement.style.visibility = "visible";
document.getElementById("meal_ingredient_input").parentElement.style.visibility = "visible";

```

Description:
The modal overlays the entire screen with opaque gray and a div in the center to imitate a modal looking dialog.

CSS Formatting:

```

.welcome_modal {
  display: none; /* Hidden by default */
  position: fixed; /* Stay in place */
  z-index: 1; /* Sit on top */
  padding-top: 100px; /* Location of the box */
  left: 0;
  top: 0;
  width: 100%; /* Full width */
  height: 100%; /* Full height */
  overflow: auto; /* Enable scroll if needed */
  background-color: rgb(0,0,0); /* Fallback color */
  background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
}

.welcome_modal_header {
  height: 15%;
  background-color: #f83333;
  color: white;
}

.welcome_modal_content {
  position: relative;
  background-color: white;
  margin: auto;
  padding: 0;
  width: 60%;
  height: 60%;
  box-shadow: 0 4px 8px 0 rgba(0,0,0,0.2), 0 6px 20px 0 rgba(0,0,0,0.19);
  -webkit-animation-name: animatetop;
  -webkit-animation-duration: 0.4s;
  animation-name: animatetop;
  animation-duration: 0.4s
}

.welcome_modal_body {
  padding: 2px 16px;
  height: 70%;
  font-size: 1.25em;
  text-align: center;
}

```

CSS Formatting:

```

.welcome_modal_footer {
  padding: 2px 16px;
  background-color: #f83333;
  color: white;
  height: 15%;
}

```

CSS Formatting:

```

.welcome_modal_title {
  text-align: center;
  vertical-align: middle;
  padding-top: 1%;
}

```

Note: The innerHtml changes based on whether or not it is the welcome modal dialog or the help modal dialog.

CSS Formatting:

```

.okay_button {
  height: 50px;
  width: 125px;
  margin: 5px;
  background-color: #f3aaff;
  float: right;
  text-align: center;
  vertical-align: middle;
  line-height: 50px;
  font-size: 1.5em;
  color: white;
  font-weight: bold;
}

```

Edit Mode vs. Non-Edit Mode Views:



































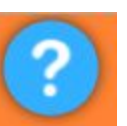


Non-Edit Mode Recipe View	Edit Mode Recipe View
<div><h3>Recipe</h3><p>Meal Name: <input type="text" value="Soup"/></p><p>Ingredients:</p><div><div>Chicken</div><div>Broth</div><div>Carrots</div><div>Celery</div><div>Noodles</div></div><p>Instructions:</p><div><div>Throw ingredients into large pot and let cook for 3 hours until veggies are soft.</div></div></div>	<div><h3>Recipe</h3><p>Meal Name: <input type="text" value="Soup"/></p><p>Ingredients:</p><div><div>Chicken</div><div>Broth</div><div>Carrots</div><div>Celery</div><div>Noodles</div></div><p><input type="text"/></p><p>Instructions:</p><div><div>Throw ingredients into large pot and let cook for 3 hours until veggies are soft.</div></div></div>

Welcome Modal Dialog & Help Modal Dialog:

When a user is visiting the site for the first time a Welcome Modal Dialog will show giving a simple introduction to the site and its functionality. The site saves a cookie to the browser so that the welcome dialog won't appear again. However, if the user desires to see the helpful instructions again they can click on the "?" button at the top right in the app's title bar.

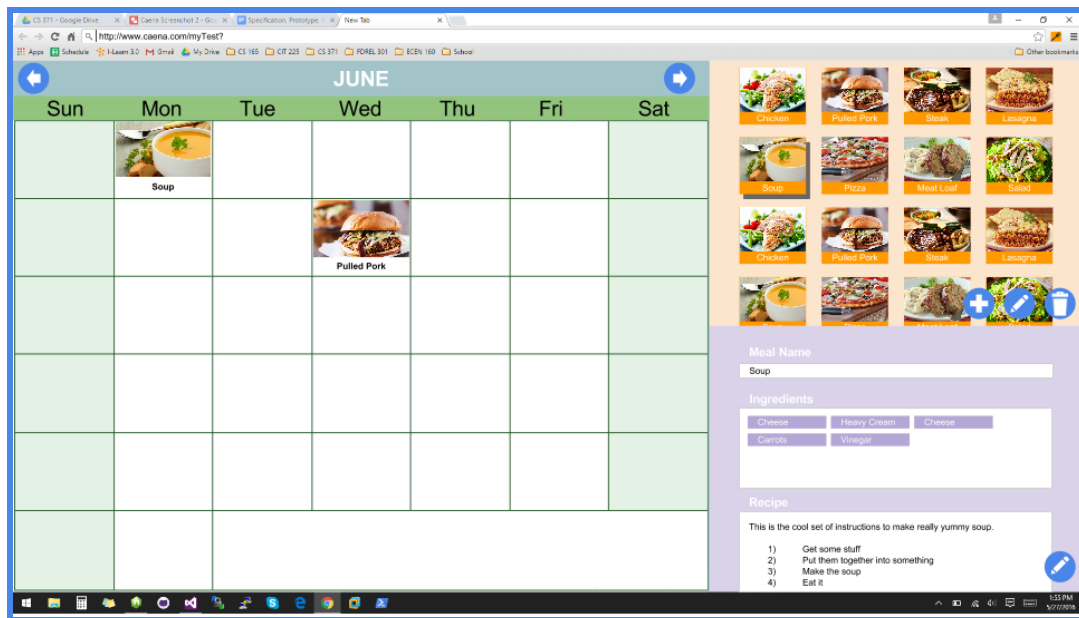
Welcome Modal Dialog	Help Modal Dialog
<div><h3>Welcome to MyMealPlanner!</h3><p>The MyMealPlanner web app is designed to make monthly meal planning quick and easy!</p><p>Need to plan your meal calendar? Simply drag meals from the right hand side and drop them on a day.</p><p>Creating new meals? Click the "+" button in the meal list and edit the contents.</p><p>Editing meals? Click on either a meal in the calendar or meal list to edit its contents.</p><p>OK</p></div>	<div><h3>Help</h3><p>The MyMealPlanner web app is designed to make monthly meal planning quick and easy!</p><p>Need to plan your meal calendar? Simply drag meals from the right hand side and drop them on a day.</p><p>Creating new meals? Click the "+" button in the meal list and edit the contents.</p><p>Editing meals? Click on either a meal in the calendar or meal list to edit its contents.</p><p>OK</p></div>

Buttons:

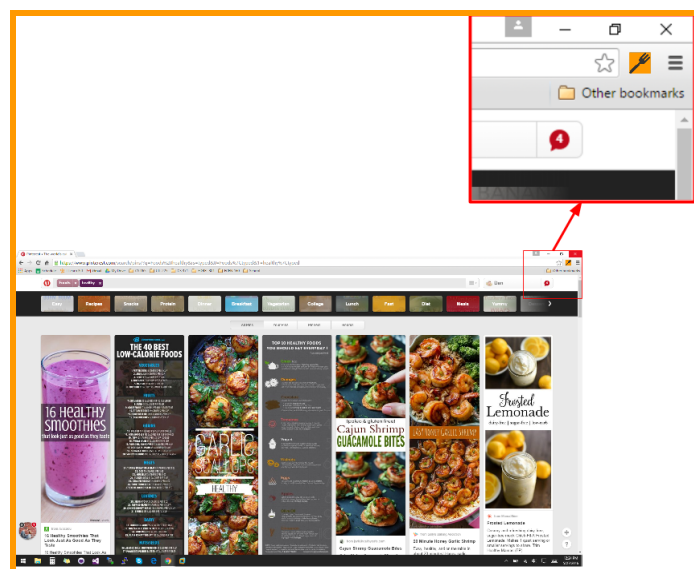
Button	Hover	Clicked (active)	Edit mode	Non edit mode
				
				
				N / A
				
				
			N / A	
				N / A
				

Appendix A: Previous Designs

The color scheme changed after our class learning about color theory. The colors shown below obviously clash and needed to be changed. I also removed the “pen” button from the meal list pane (round blue button with the pen image in the orange pane next the the garbage button). The button was redundant since it existed below in the meal recipe pane.



Another great feature that had to be cut due to time constraints was the Google Chrome extension. This extension was meant to parse a currently viewed page and extract recipe information that would then be saved to the user's list of meals to be used as a new meal.



Appendix B: Usability Plan / Testing Cautions

It is very important to note that the website is ONLY a working prototype. Meaning, users can interact with the web app but their changes and interactions only last during the page session. If they click to another site or close the browser their changes will be lost. This is due to the fact that I do not have a good enough server to host the website with proper back-end support. Since the point of this project is to design interfaces, the focus has been put on the interface design and functionality not the overall ability to save data over a long period of time.

Appendix C: Specification History

A few items changed since the last draft of the specification. The executive summary changed to exclude the meal parsing Google Chrome extension. The scenario also changed to exclude the use of the Google Chrome extension. Lastly the images and design details were updated to the now implemented prototype.

Appendix D: User Feedback (Adding a modal dialog)

After some usability studies, users said that although the site is intuitive in its functionality it could use a little bit of help in knowing its general purpose. I solved this by adding a title bar along with a modal dialog that appears for first time users. The info in that dialog can then be referenced again if the user clicks the “?” button in the top right hand corner of the title bar.