Lunch Money Buddy App

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# Problem

## **Project Background**

We've been tasked with creating a mobile app titled "Lunch Money Buddy" that will allow parents and legal guardians to manage their school aged children's lunch and subsidy accounts. Some of the functionality to include was to create a new "Lunch Money Buddy" account, to view and add money to their children's lunch accounts, view and favorite upcoming school lunches, and receive notifications for upcoming favorite lunches.

### **Problem Statement**

The main purpose of the project was to answer the following question:

How might parents / legal guardians most effectively manage their school-aged children's lunch and subsidy accounts in a mobile app?

## **Actions**

### Approach & Actions Taken

The application specifics and personas for the app had already been identified and provided. With this information in hand, we took the following action plan:

1. **User journeys** were created to reflect the provided personas. There were a total of 2 personas and 2 user journeys were created for each persona. The personas and corresponding user journeys are listed below. *See Appendix I for full user journeys.* 

Persona	User Journey
Samantha and Jorge, Parents of 2	Select their children's favorite lunches and receive alerts
Young Children	so they know not to pack a lunch on those days.
Samantha and Jorge, Parents of 2	Know when the account balance is low and/or have the
Young Children	account auto refill.
Henry, Grandfather and Legal	Set up a new lunch money account with Lunch Money
Guardian of Grandson	Buddy.
Henry, Grandfather and Legal	View and add money to Lunch Money Buddy account.
Guardian of Grandson	

- 2. A **site map** was digitally created utilizing the application specifications and the personas' user journeys. All application specs and user journeys were incorporated into the site map. *See Appendix II for full site map.*
- 3. **Draft wireframes** were digitally created based off the site map. These wireframes included specific user journeys, as well as a full wireframe of the entire app. A peer group critiqued the wireframes and provided constructive feedback so that the app could be even better.
- 4. Based off the feedback received from the peer group, the **wireframes were finalized**. *See Appendix III for wireframes.*
- 5. The finalized wireframes were used to create a **draft digital prototype** using the online tool, Proto.io. A peer group then critiqued the draft prototype and provided constructive feedback.

- 6. The **prototype was updated** based off of peer feedback. The prototype was shared with a larger pool of peers to provide their thoughts, feedback, and suggestions.
- 7. The **prototype was finalized** based off of peer feedback. *For screenshots of prototype design, see Appendix IV.*

## **Discoveries That Motivated Change**

There were a several instances where my thinking or approach changed.

- When creating the prototype, it became obvious that it was frustrating to have to go back to the Balance or Lunch Calendar pages in order to see another child's information. Why couldn't the user easily switch between children on the same page?
- Showing a full calendar on the Lunch Calendar page would not be the best approach for what it was needed for. If a user tapped on a specific day in the calendar, it would automatically add the lunch as a favorite; however, what if the user was looking for more information on the lunch and didn't want to add it as a favorite? The information would already have to be on the calendar view, which could look chaotic since there would be so much information. Showing just a week's worth of lunches provides more space to include this kind of information right on the calendar. Star icons were also incorporated so users can choose favorite lunches simply by clicking the star associated with a specific lunch.
- There was no place that included all information for a child. A user wouldn't be able to see the balance, a child's favorite lunches, and other pertinent information unless the user went in and out between screens, which could be very frustrating. A profile page for each user was incorporated into the design.
- Almost everything is buried under 4 buttons on the home page. A user would have to click into each button to see the information. Additional information was added on a couple of buttons to show the total balance and number of children right on the home page.
- In the draft prototype, it wasn't obvious which items initiated an interaction on the screen. Change of color can really help with this.
- A user had no way to see a history of what their children had previously bought, or subsidies that were added to their account. This is something that became noticeable during large peer group testing.

## Results

The problem statement was effectively answered using the approach outlined in the Actions section. After several iterations of the wireframes and prototypes, all of the work during this project resulted in a final prototype for the Lunch Money Buddy app. Click here to see final prototype. Below are screenshots of the initial wireframe (left) and the final prototype (right) to demonstrate the progress that was made during this project.

Icon in wireframe resembles a common profile icon and may have gotten confused with the Child Profiles button Changed icon to a gear (?) 🙎 20 Added LSB Lunch Lunch Money Buddy Money Buddy Lunch Calendar (S) Balance Lunch Balance No title, no Calendar title and Added total \$20.00 logo and no logo balance and dashboard child profile Child Payment ---feel Profiles Methods pictures on home page to resemble a dashboard Added logo so users are able to easily go back to the home page  $\equiv$ LSB New History tab Down arrow Icon and ..... § Balance Balance so users can could be Lunch Subsidy color Lunch Subsidy History view the history misleading since matches Lunch Balance Add to Balance of lunches the user wouldn't \$ 0.00 \$6.00 Balance bought and \$10.00 actually be able button subsidies added to decrease the on home \$ 0.00 Auto refill lunch account amount if it's page When: Add: **Changed from** already been \$ \$ charged arrows to a text box so users can Cancel Done easily input Save amount they want to add 



# **Lessons Learned**

To continuously improve and be more skilled and knowledgeable for the next project, reflecting on what was learned is an important part of the process. Here are the lessons learned:

### Personal

- Anticipate change. It's okay if things change, as long as you're driving to toward the end goal and keep the users in mind.
- Take negative and positive criticism as a way to improve your design. Although it can be difficult to hear at times, you'll remember it for your next project; therefore, your projects will continue to get better and better.

#### Design

- It should be obvious which items initiate an interaction on the screen.
- The space on a screen should be effectively utilized whether it be in portrait or landscape orientation.
- Having a logo as a way to go back to the main screen can be helpful and seems to be a common practice.
- Have a warning message if a user wants to close their account, or in any case where a user could lose a lot of information.
- In this particular project, having one screen for the user to input just the access code is less frustrating since the user doesn't end up inputting a bunch of information before being told the information is incorrect. This same technique could be applied in other projects.
- Having visual cues or color coordination could be beneficial for users in some, if not most cases.
- Although not used in the final prototype, having navigation tabs at the bottom of the screen can be effective because it allows users to navigate with only one thumb. This is something that I will take into consideration for future projects.

# **Appendices**

#### I – User Journeys



# My Children's Favorite Lunches

**Persona:** Samantha and Jorge, Parents of 2 Young Children **Goal/Context:** To easily select their children's favorite lunches and receive alerts so they know not to pack a lunch on those days.





# Low Account Balance & Auto-Replenish

Persona: Samantha and Jorge, Parents of 2 Young Children Goal/Context: To easily know when the account balance is low and/or have the account balance is auto refill.



Rationale:

having more

in their busy

welcome.



# Set Up New Lunch Money Buddy Account

Persona: Henry, Grandfather and Legal Guardian of Grandson Goal/Context: To easily set up a new lunch money account with Lunch Money Budd



times.



# View and Add Money to Account

Persona: Henry, Grandfather and Legal Guardian of Grandson Goal/Context: To easily view and add money to Lunch Money Buddy account.



must.

### II – Full Site Map

LOG IN

Existing

User

- 1. After downloading app, new user opens app and sees this screen. They sign up by entering email address and access code provided by school, and create a password.
- 2. User enters email address and password to log into app.

CHOOSE

CHILD

- 3. User chooses child's name to proceed. If more than 1 child, all children's names will appear here.
- 4. Home page includes Lunch Account, Subsidy Account, and Lunch Calendar as main tile items. User can also choose a different child's account, get help on how to use the app, and log out or close account.
- 5. Displays lunch balance for selected child. Ability to add to account and option to auto refill balance.
- 6. Displays subsidy amount and status, if applicable to user.
- 7. Displays school lunch calendar for current month and ability to navigate between different months. User can choose to add lunches to favorites and change favorites settings.
- 8. Includes help topics that user can read if they need help using the app.
- 9. Dropdown menu. Includes options such as change email or password, log out, and close account.
- 10. Payment information for lunch account. Ability to choose payment method and input payment information.
- 11. Accessed through Lunch Calendar page, or pops up when user chooses favorite lunch for first time. Allows user to select alert settings including automatic notification of upcoming favorite lunch and notification method.
- 12. Pop-up appears when user selects to close out account from options menu.



#### III – Wireframes

### Create & Access Account





#### Home Page





#### Lunch Calendar



#### **Payment Method**



to create a payment method for each child.





Child's profile page includes picture of the child, their current balance, and their favorite lunches.







Lunch Money Buddy App

# IV – Prototype

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10	orin
LO	5

0
Login
Email Address Placeholder
Placeholder Forgot Password?
Create account
Log in

### Create Account – Part I

0	
Create Acc	ount
Enter Access Code Placeholder	
Back	Next
$\bigcirc$	

### Forgot Password



Create Account – Part 2

0	
Create Acco	ount
Email Address Placeholder	
Create Password Placeholder	
Re-enter Password Placeholder	
Back	Save
$\bigcirc$	

#### Home Page - Vertical



#### Lunch Calendar - Vertical



Balance



#### **Child Profiles**



#### **Create Child Profile**

	0	
LSB	:	
с	reate Child I	Profile
Chil	d's First Name	
Chil	d's Last Name	
Pla	d's DOB (MM/DD/) ceholder	YYY)
	Add Photo	
	Cancel	Save
	$\bigcirc$	

#### **Individual Child Profile**



## Edit Child Info

LSB	=	
	Edit Child	Info
CI	nild's First Name	
F	larry	
CI	nild's Last Name	
S	Smith	
CI	hild's DOB (MM/DD/	YYYY)
	Change Photo	
	Cancel	Save
	$\bigcirc$	

#### **Payment Methods**



#### Add Payment Method



## Edit Payment Method Credit Card Credit Card Credit Card Credit Card Credit Card Conce Card Number: Placeholder Expiration Date Security Code 12/17 345 Make primary payment method Cance Save



Help

#### **My Account**



### Home Page - Horizontal



Lunch Calendar - Horizontal

