

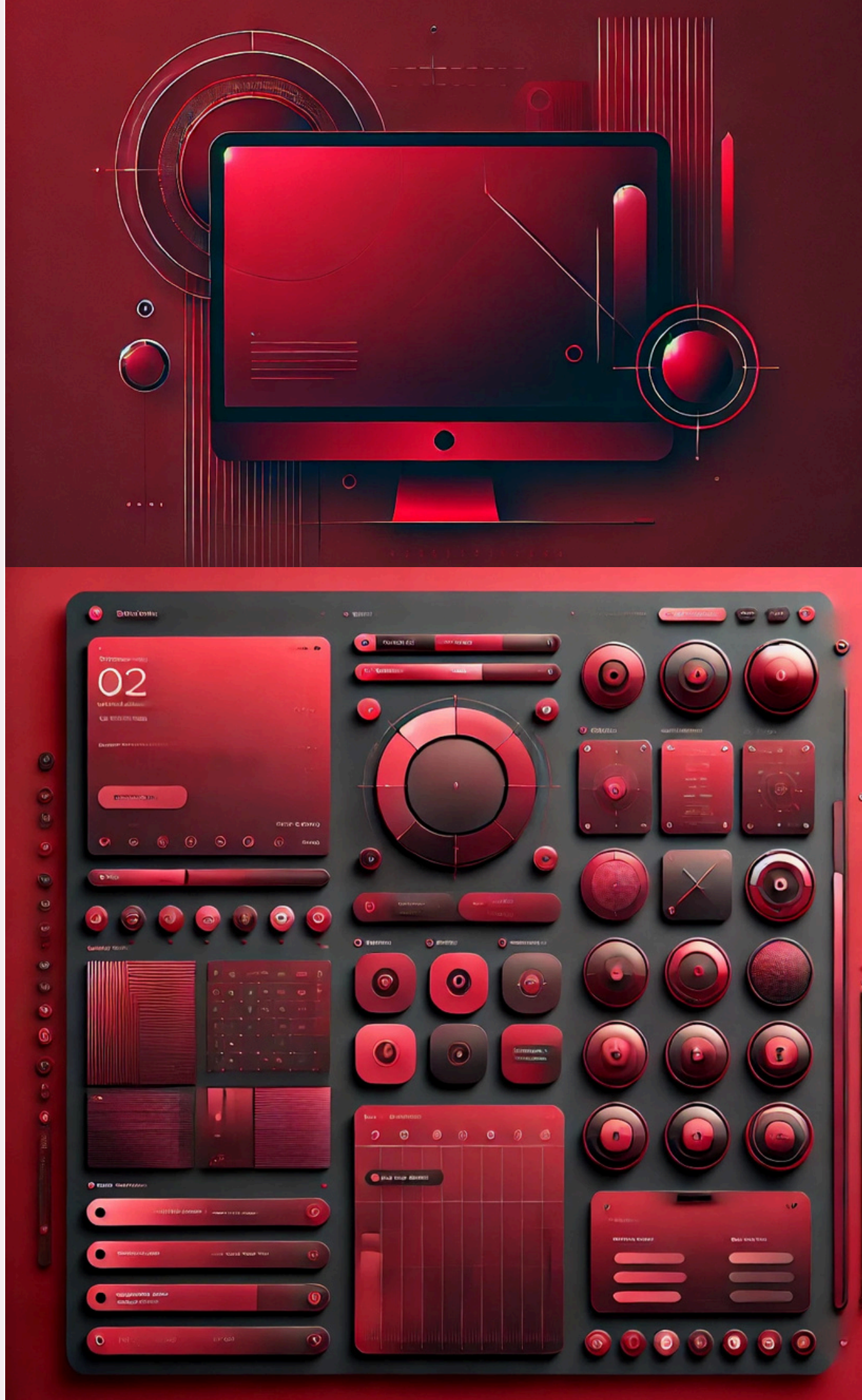
# IUB Crimson Cupboard

J T Cho

Online Platform for Crimson Cupboard



**CRIMSON  
CUPBOARD**



# Goal

Provide online platform for Crimson Cupboard food pantry

## User Friendly

We focused on creating a user-friendly design to ensure the platform is intuitive and easy to navigate for all users

## Practical

Our goal is to develop a practical website that faculty and students can easily use, providing a seamless experience for both groups



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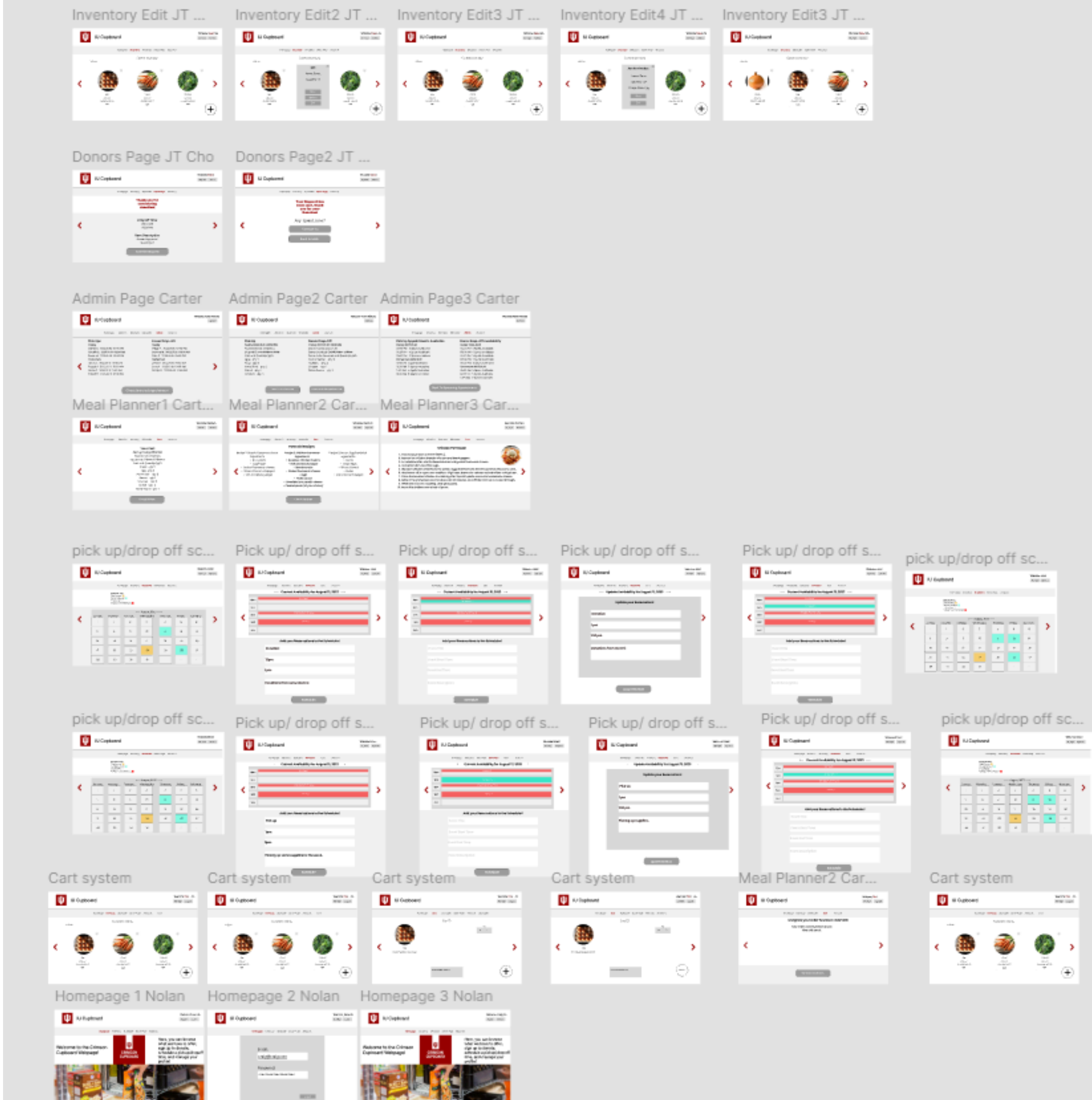
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# Wireframe

- Adjusting Team Member Opinions:
  - Early Stage: Early on, differing opinions emerged within the team.
  - Insight: We realized the importance of team communication and leadership, and that it is crucial to bring together diverse ideas to create a better design
- Clear Definition of Functions:
  - Early Stage: There were concerns about potential confusion later on due to unclear definitions of functions
  - Insight: Clearly defining each screen and function, and sharing this with the team, helped us achieve the project goals
- Prototype Testing:
  - Early Stage: Gathering feedback through prototype testing was essential
  - Insight: Conducting small group tests and making quick revisions improved the quality of the prototype and allowed us to reflect user feedback effectively

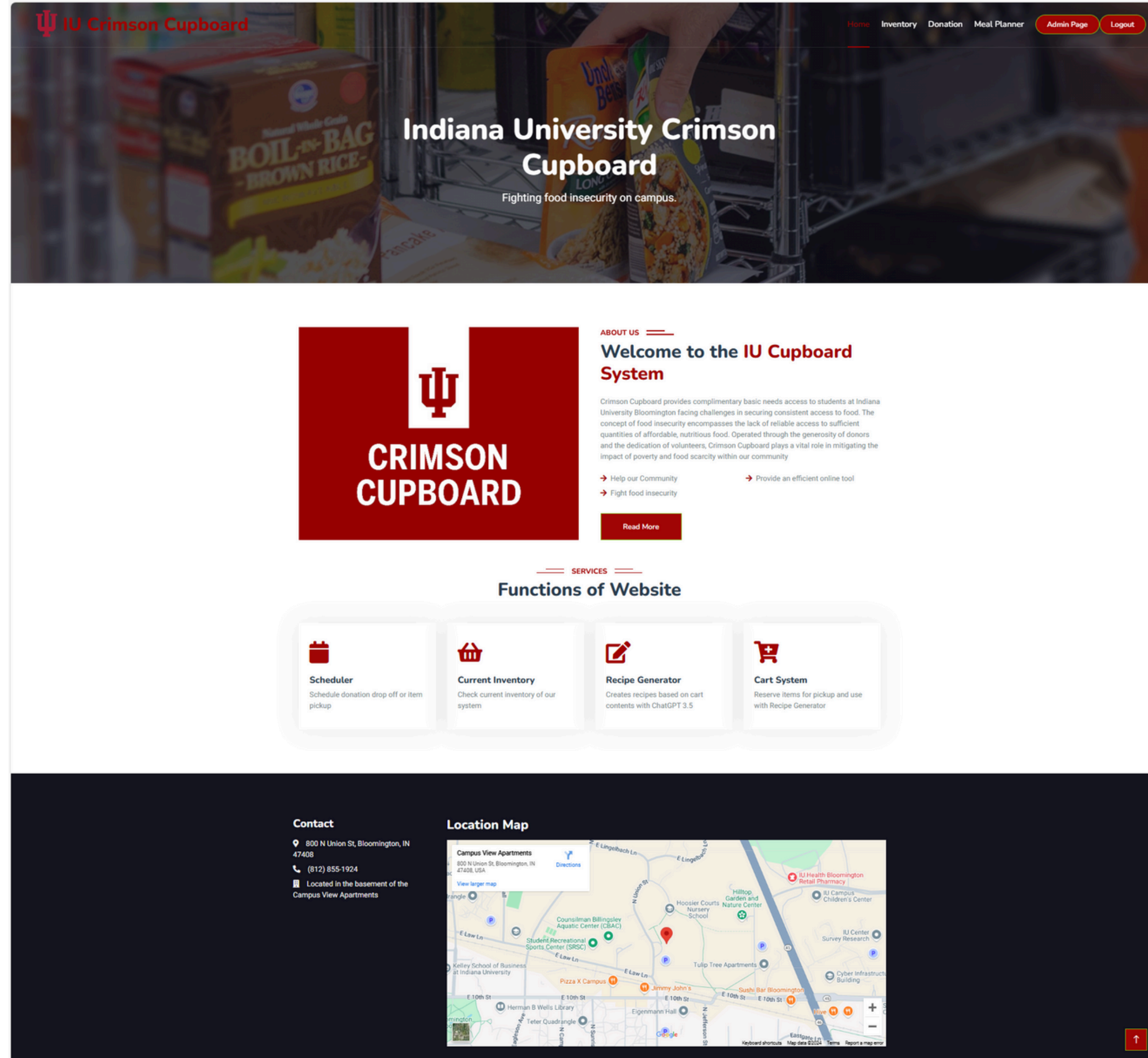




# Main Page

## Features

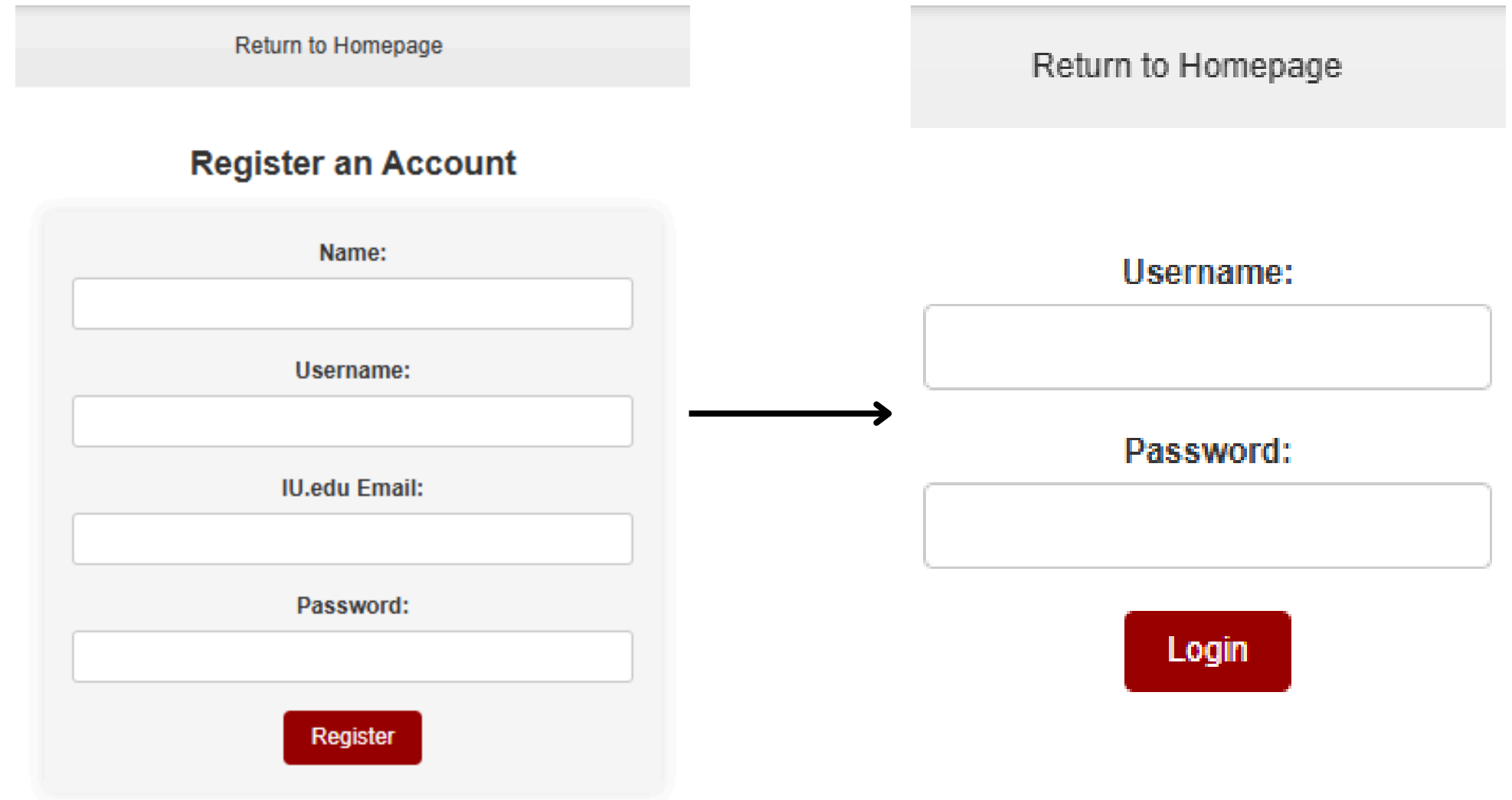
- The main page serves as an introduction to the IU Crimson Cupboard, outlining its mission to combat food insecurity on campus
- It provides an overview of the key features available to users
- The page integrates a Google Maps API, making it easy for users to locate the IU Cupboard's physical location with accurate, interactive directions



# Registration/Login Page

## Features

- New users can register by providing their name, username, IU email, and password
- Only users with an IU email (ending in "@iu.edu") can register, preventing non-IU members from signing up
- Passwords are encrypted and securely stored in the IU database, ensuring even administrators cannot access them for added security
- If the email is already registered, the system will display an error message and prevent duplicate registration



The diagram illustrates the user flow between the registration and login pages. On the left, the 'Register an Account' form includes a 'Return to Homepage' link, followed by input fields for Name, Username, IU.edu Email, and Password, and a 'Register' button. An arrow points from this form to the right, where the 'Login' form is located. The 'Login' form also has a 'Return to Homepage' link, followed by input fields for Username and Password, and a 'Login' button.

[Return to Homepage](#)

**Register an Account**

Name:

Username:

IU.edu Email:

Password:

**Register**

[Return to Homepage](#)

**Username:**

**Password:**

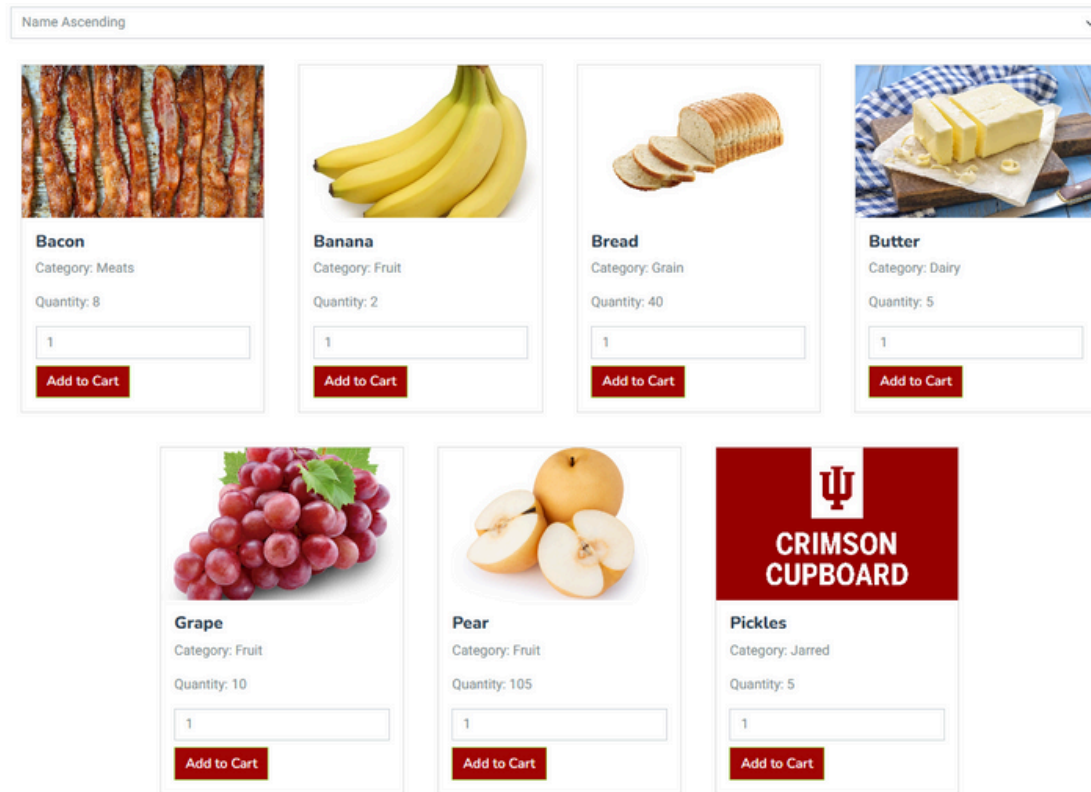
**Login**



# Inventory

## Features

- Users can sort items alphabetically or by category for easier browsing
- Users can select items and specify their desired quantity to add them to the shopping cart
- The shopping cart allows users to update or remove items and proceed to checkout
- Once shopping is complete, users can finalize their order and then schedule an appointment to pick up the items after the order is completed



## Your Shopping Cart

Name: Bacon

Quantity: 1

Update

Remove

Proceed to Checkout

Continue Shopping

## Order Summary

Name: Bacon

Quantity: 1

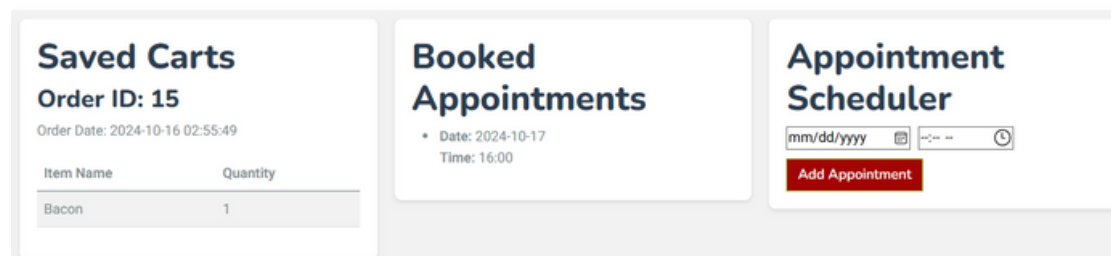
Thank you for your order. Press Complete Order and schedule a pickup time for your items in MyPage.

Complete Order

Return to Cart

Go to Meal Planner

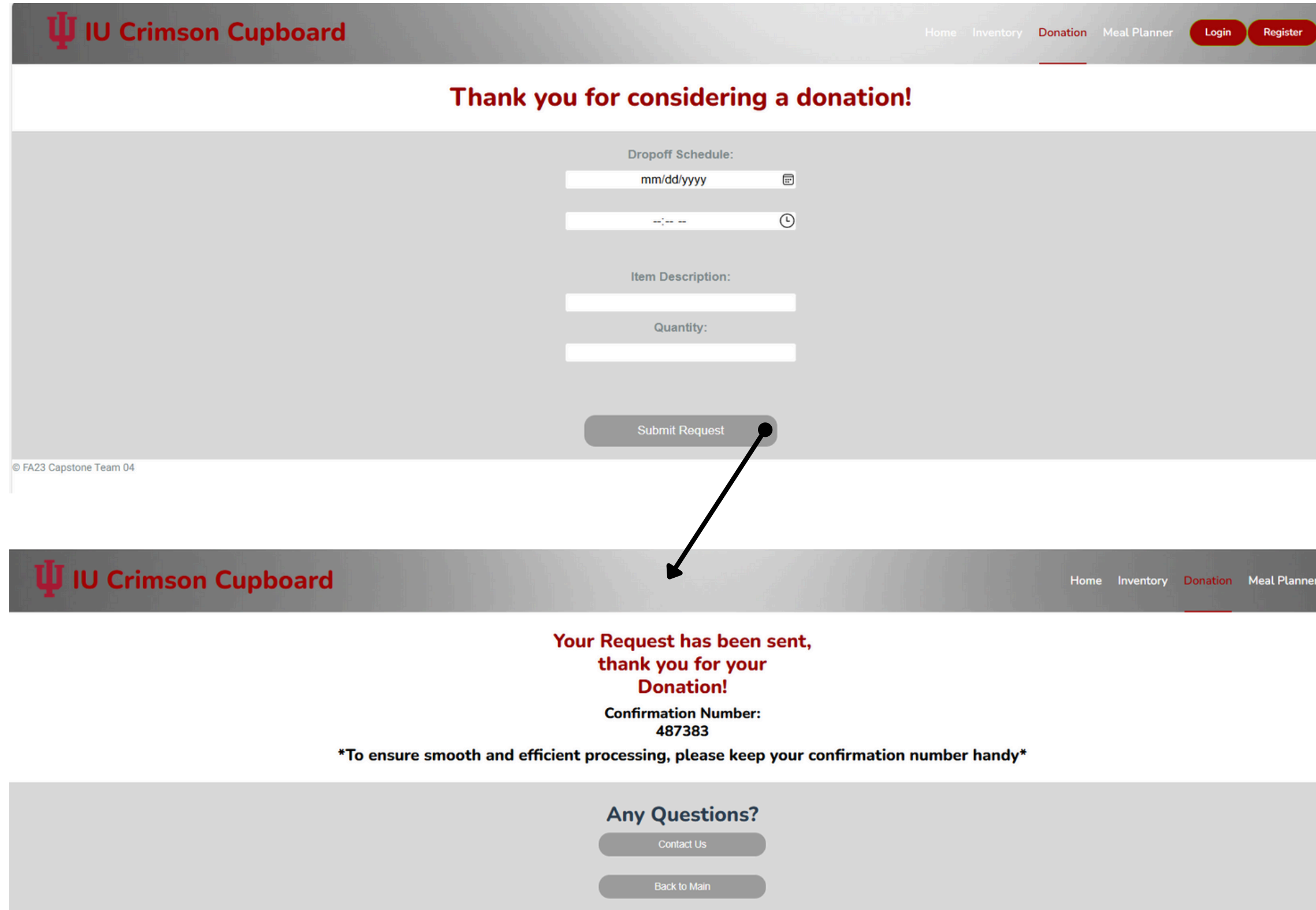
## JT's Crimson Cupboard profile



# Donation

## Features

- Users can schedule a donation by selecting the drop-off date, time, item description, and quantity
- A randomly generated confirmation number is provided upon submitting the donation request
- The Contact Us button offers IU Cupboard's email for any questions or inquiries



**Ψ IU Crimson Cupboard** Home Inventory **Donation** Meal Planner Login Register

**Thank you for considering a donation!**

Dropoff Schedule:

mm/dd/yyyy

--:--

Item Description:

Quantity:

Submit Request

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**Ψ IU Crimson Cupboard** Home Inventory **Donation** Meal Planner

**Your Request has been sent, thank you for your Donation!**

Confirmation Number:  
487383

**\*To ensure smooth and efficient processing, please keep your confirmation number handy\***

**Any Questions?**

Contact Us


Back to Main



# Meal Planner

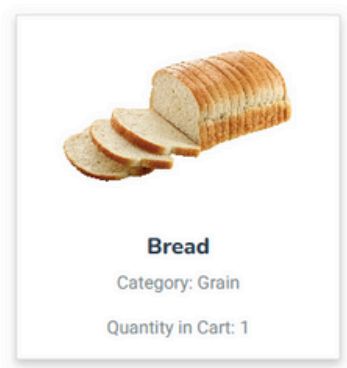
## Features

- The system automatically pulls items from the cart to suggest recipes based on what the user has selected
- When the "Generate Recipes" button is clicked, an integrated ChatGPT creates personalized recipes using the items in the cart, making it convenient and efficient for users to plan meals





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Meal Planner/Current Cart Items



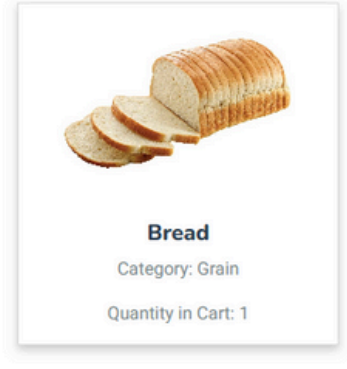
Generate Recipes





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Meal Planner/Current Cart Items



Generate Recipes

French Toast

- Ingredients:
  - 2 slices of Bread
  - 1 Egg
  - 1/4 cup Milk
  - 1 tsp Vanilla extract
  - 1/2 tsp Cinnamon
  - Butter for frying
- Instructions:
  - Whisk egg, milk, vanilla, and cinnamon in a bowl.
  - Dip bread slices into the mixture, coating both sides.
  - Heat butter in a pan and fry the bread until golden on both sides.
  - Serve with syrup or powdered sugar.

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# Administrator Account

## Features

- Administrator account can edit an item's name, category, quantity, and picture for flexibility in managing inventory
- Administrator account can easily add new items to the system
- Administrator account can also delete items, allowing for complete control over the cart list

Edit Item

Name

Banana

Category

Fruit

Quantity

2

Image

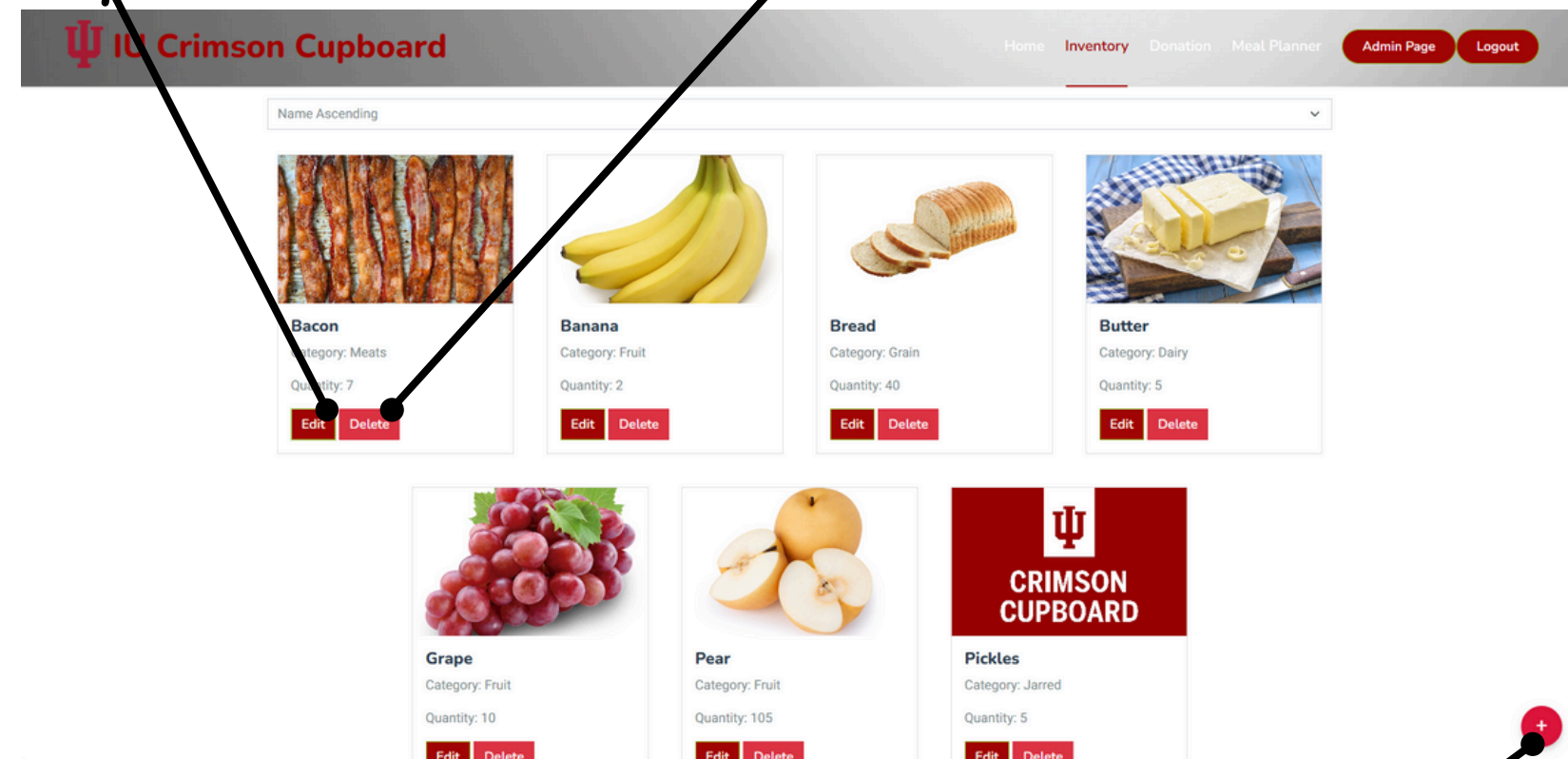
Choose File No file chosen

Close

Save changes

cgi.luddy.indiana.edu says

Are you sure you want to delete this item?



Add New Item

Name

Category

Quantity

Image

Choose File No file chosen

Close

Add Item

# Administrator Account

## Features

- The Administrator account can view all appointments and donation schedules made by users on their page for easy management
- Administrators can edit appointments, and an email notification will be sent to users whenever changes are made

### Edit Appointment

[Back](#)

Date:

2024-09-03


Time:

23:25

Status:

Scheduled

Save Changes


IU Crimson Cupboard

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[Admin Page](#)
[Logout](#)

## Appointment Dashboard

Appointment ID	Date	Time	Status	Name	User Email	
1	2024-04-30	10:01	Confirmed	Admin	admin@iu.edu	<a href="#">Edit</a>
2	2024-04-21	15:00	Pending	testUser	test@iu.edu	<a href="#">Edit</a>
3	2024-05-01	09:00	Confirmed	User	user@iu.edu	<a href="#">Edit</a>
4	2024-04-10	01:16	Scheduled	User	user@iu.edu	<a href="#">Edit</a>
5	2024-04-18	16:45	Scheduled	marc101	santmaa@iu.edu	<a href="#">Edit</a>
6	2024-09-25	00:50	Scheduled	JT Cho	jtcho@iu.edu	<a href="#">Edit</a>
7	2024-09-25	13:05	Scheduled	JT Cho	jtcho@iu.edu	<a href="#">Edit</a>
8	2024-09-02	23:21	Scheduled	TEST ACCOUNT	test1234@iu.edu	<a href="#">Edit</a>
9	2024-09-03	23:25	Scheduled	TEST ACC	test123456@iu.edu	<a href="#">Edit</a>
10	2024-10-17	16:00	Scheduled	JT	12341234@iu.edu	<a href="#">Edit</a>

## Donation Dashboard

Date	Time	Item	Quantity	Confirmation Number
2024-02-10	14:30:00	Egg	40	
2024-04-10	02:42:00	Eggs	60	874643
2024-04-05	13:17:00	Eggs	20	322974
2024-04-11	13:27:00	Bacon	2	115003
2024-04-25	12:49:00	skittles	2	837487
2024-09-02	11:18:00	Food	12	230914
2024-09-02	23:28:00	Test	123	308375
2024-10-23	16:00:00	Banana	10	487383

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# User Testing

Usability Testing for  
Appointment Booking

User Feed Back

**Easy: 3**  
**Moderate: 6**  
**Hard: 1**

Real-time Inventory  
Browsing and Cart  
Functionality

User Feed Back

**Easy: 6**  
**Moderate: 3**  
**Hard: 1**

Sorting and Filtering of  
Inventory Items

User Feed Back

**Easy: 10**  
**Moderate: 0**  
**Hard: 0**

Registration and Login

User Feed Back

**Easy: 10**  
**Moderate: 0**  
**Hard: 0**



# Challenges and Potential Improvements

## Challenges

- Creating a seamless user flow was more difficult than expected, especially with the development of the cart system and recipe generator (Meal Planner page). We needed to find the easiest way for users to transfer items from the cart to the recipe page efficiently
- Ensuring that only IU students and staff could use the platform was challenging due to privacy considerations. We used the @iu.edu email domain as the main criterion to restrict access and prevent duplicate emails. However, we faced difficulty in verifying whether the email addresses were real or not

## Potential Improvements

- For the user flow improvement, adding a “Generate Recipes” button directly on the cart page would simplify navigation. Additionally, providing real-time recipe suggestions as items are added would make the process more interactive. Using progress indicators can further guide users through each step smoothly
- For privacy verification, an email verification step with a confirmation link would help ensure IU-only access. Alternatively, integrating IU’s Single Sign-On (SSO) would securely verify users without the need for manual email checks

# Website Link

<https://cgi.luddy.indiana.edu/~team04/capstone/index.php>



**CRIMSON  
CUPBOARD**