Bearcats Pantry Stocker Application
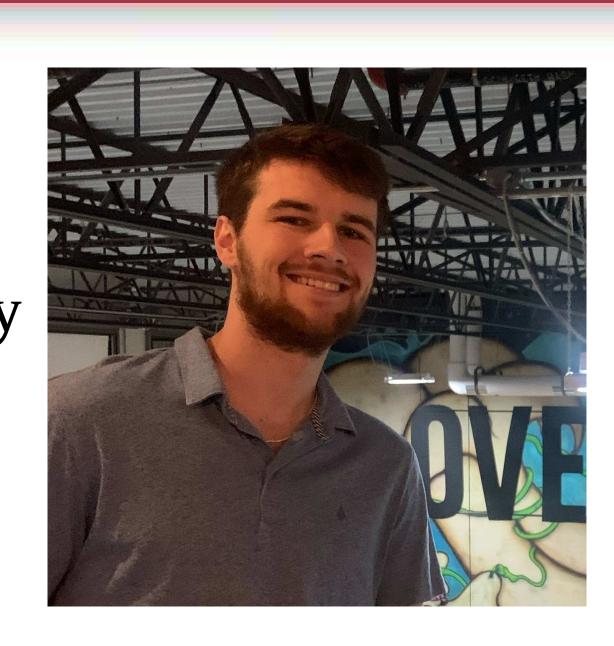
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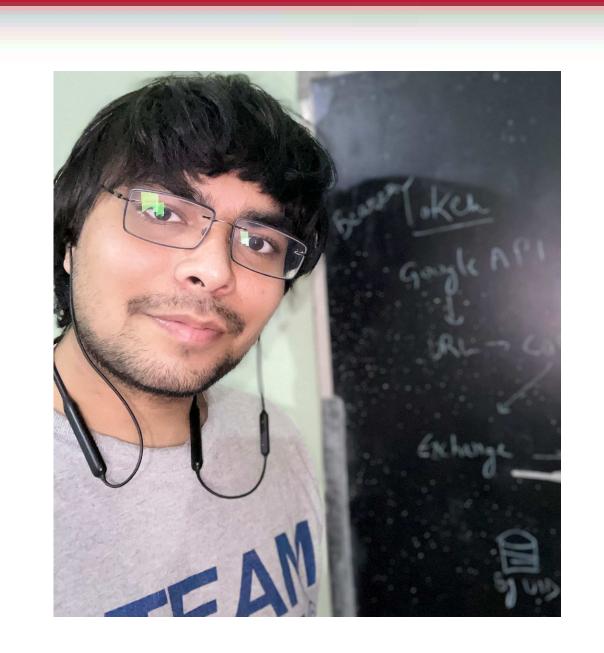
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Introduction

- The Bearcats Pantry is a food pantry for the University of Cincinnati's students and faculty providing food, hygiene products and clothing to those in need.
- Students and faculty can fill out an intake form and checkout items for free when accepted.

Purpose

- The purpose of the stocker app is to make the Bearcats Pantry more accessible.
- Students can view available items and place orders online, saving them time and resources of travelling in-person to check if their needed items are available.
- Administrators and volunteers at the pantry will also have access to important data to improve the pantry's operations.

Challenges

- Database schema for transactions to allow efficient and logical data retrieval.
- Coordinating in-person and online orders, potential inconsistencies in inventory from simultaneous orders.
- Collaborating with UCIT to access and manage servers.

Technology Stack

HTML/CSS

JavaScript

Java

Spring-Boot

MySQL

Impact

- The broad impact of the stocker application is to improve the overall health and well-being of the University of Cincinnati's students and faculty.
- By making the food pantry more accessible through online ordering and inventory, users will be able to provide basic necessities for themselves and family members much easier.

Results

- Filtering for the student order page has been implemented. Students can sort by item type to narrow their search and order faster.
- Transaction tracking has been fully implemented. The app now tracks items going in and out of stock for administrators to see which items are most popular and present data and reports on product movement.
- Product information now includes weight (oz). Combined with transaction data, administrators can view total weight moving in/out of the pantry.

User Flow

Student → Go to website → Add items to cart → Checkout → Pick-up items from pantry location

Admin → Go to Admin page → Select desired report → Collect data