Y100 Design Challenge

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Overview

- This technology helps alleviate the strains of getting food from dining halls
- Allows students to effectively get meals without wasting too much time
- **Capabilities**
  - Check the wait time in each of the dining halls on campus
  - See the menu for the day
  - Order food right to dorm
- **Design**
  - A large touch screen built into the wall
  - Has a portal underneath the screen where the food is transported to
  - Card swiper to scan Crimson Card and order food
Y100 Design Challenge

Zoomed out view

- There would be one ordering station on each residence hall floor.

- Touchscreen that displays a menu. If you order food, the meal can be picked up here.

- Screen with menu. Allows students to order food and check the status.

- If you order food, the meal can be picked up here.

Zoomed in view

- Welcome screen.
- Click here to see today's menu.
- Click here to see the wait time in each residence hall's dining hall.
- Click here to start ordering from the dining halls.
- Click here to login.

- The food you order gets sent to your dormitory or a central location.
- Crimson card with a student ID for meal access.
- Student ID need to swipe to access food area.
There would be one ordering station on each residence hall floor.

Touch screen that lets you check wait time, check the menu, and order.

Screen w/ menu. Allows you to order food and check the menu.

Swipe here to pay.

If you order food, the meal can be picked up here.

Room 106

Room 105
WELCOME!

Click here to see today's menu.

Click here to see the wait time in each residence hall's dining hall.

Click here to start ordering from the dining halls.

Login here.

The food you order gets sent through a portal and picked up here.

Crimson card scanner to pay for meal and unlock door to take food out.
Insights from consultations

- Too busy to get food
- Limited choice of food
- Dorms are not innovative
- Lines in the dining halls
Design

- Large Touch Screen
  - What’s included:
    - Menu
    - Wait times
    - Access to account information (money available within the account, previous purchases, etc.)

- Tray
  - What’s Included:
    - Sliding door
    - Card Scanner
    - Food will not be sent until proper card is swiped

- Located in halls of each dorm at Indiana University.
Design Process

We decided to look over all of our blueprints and picked the best features from the four designs. An example would include the touch screen for easier user interaction and a card scanner that requires you swipe and pay before you get the food to assure the correct person is getting the food and also that once you get the food you don’t have to worry about dropping it while trying to scan. The ultimate goal was to make the most efficient and quick way for students to order food and get it delivered without hassle. We were able to compromise on some ideas to build the perfect design.
Technology

- Touchscreen
  - Menu/dining options
- Face ID+card
- Portal
- Swift+Python
Questions

- Is it ethical to implement portals in college dorms? Is society ready for an innovation like this?
- Do you think this food option would be more appealing for students than ordering take out or another food option provided on campus?
- If an innovation like this were to be implemented right now, would you still be willing to make a trip to a dining hall? Why or why not?