

Project Title: Taste Then Tell

Project Summary

Taste Then Tell is a web app that will allow any university student to find reviews about the meals served in their school's dining halls. Students and university dining services will be able to benefit from our web app and discover what foods are a hit or miss or how dishes compare across halls. Our web app will include user authentication, search functionality, a review system, and aggregated dish ratings.

Description

The key focus of our web app is allowing users to make informed decisions when it comes to dining. There are so many choices that it's impossible for a new student to know what's good and what's bad. The crowdsourced reviews in our web app will help students find the best dishes and avoid those that are not so great. Maybe the ice cream at PAR is amazing, but the ice cream machine is always broken. This key information is difficult for new students to figure out on their own, but reading reviews solves that problem. Our app will also allow students to easily filter dishes based on various points (vegetarian, kosher, etc...) [assuming that the university provides this information] and to then check when dishes that match their preferences will be available.

Usefulness

Most universities have their own websites/mobile apps that provide the daily/weekly menu of their respective dining halls, with basic nutrition information and service times, but no section for student feedback or reviews. New or curious students seeking more information about the food quality at their halls can ask others or try using online forums for the school (like Reddit) but might get feedback about a hall's food in general or not receive an answer in time for their meal. Our web app will be particularly useful for these students because we simplify the process of finding this information for specific dishes or halls. On the other hand, this web app could help universities see what dishes are popular or unpopular and where they might need to allocate more resources to increase quality control.

Realness

For this project, we will be using a combination of real and generated data. Since UIUC does not currently have any sort of review system for dishes, if we want real ones we will have to manually seek them out. Similarly, there's no easy way to go about collecting food schedules from thousands of universities, so this will also be mostly generated. There are some notable

APIs with real data for universities such as the one for the University of Michigan ([here](#)) and for Harvard ([here](#)). We may integrate this real data into our database. Users and reviews will also have to be auto-generated to get a starting point, but once complete our web app will allow for new real users and their reviews.

Data Stored

University

University ID: VARCHAR(100) PRIMARY KEY

Name: VARCHAR(30)

Location: VARCHAR (100)

Dining Hall

Dining Hall ID: VARCHAR(100) PRIMARY KEY

University ID: VARCHAR(100) FOREIGN KEY

Name: VARCHAR(100)

Food Item

Food ID: VARCHAR(100) PRIMARY KEY

Dining Hall ID: VARCHAR(100) FOREIGN KEY

Name: VARCHAR(100)

Allergen: VARCHAR(100)

Users

User ID: VARCHAR(100) PRIMARY KEY

University ID: VARCHAR(100) FOREIGN KEY

First Name: VARCHAR(100)

Last Name: VARCHAR(100)

Password: VARCHAR(100)

Reviews

Review ID: VARCHAR(100) PRIMARY KEY

User ID: VARCHAR(100) FOREIGN KEY

Dining Hall ID: VARCHAR(100) FOREIGN KEY

Food ID: VARCHAR(100) FOREIGN KEY

Rating: INT

Likes: INT

Schedule

Dining Hall ID: VARCHAR(100) FOREIGN KEY

Food ID: VARCHAR(100) FOREIGN KEY

Days: VARCHAR(20)

Meal Type: VARCHAR(20)

Functionality

The first time users open the website they're presented with a Welcome Page where they can either log in or create an account. An account allows them to submit reviews as well as like/dislike comments.

On the Homepage of the website they can view the menu for the university they're a part of and see information about how well the meals were received. They can also click on the meals on this page to pull up a more detailed view of the meal detailing information like where the meal is served, allergen information, and reviews people have left. Reviews show which user submitted the review, their comments, and how many likes it has. Users can like/dislike these reviews and also add/edit their own.

Other pages like the Full Menu Page, University Page, and Dining Hall Selection Page provide users with the ability to sort the appropriate entries on the page either by name or rating so they can more easily choose an option. Similarly, the search page allows users to search for specific meals and sort them based on specific criteria.

Lastly, the Profile Page allows users to view their personal information as well as their previous review history.

Creative

For the creative component of the website, we will allow users to generate a random meal so that they can have an option if they're unsure of what meal they want to have or they want to try new things.

Mockup

Welcome!

Are you a...

Guest will be a view-only mode!

New user

Returning User

Guest

buttons

WELCOME PAGE

Create Account

First Name:

Last Name:

Username:

Password:

University:

Create Account button

text box

dropdown

ACCOUNT CREATION PAGE

Login

Username:

Password:

Log in button

text box

LOG IN PAGE

Today Full Menu All Universities Random Search

Today's Menu:

University of Illinois at Urbana-Champaign
Field of Greens at Lincoln/Allen (LARS)

Breakfast Lunch Dinner

Item	Avg. Rating	Item	Avg. Rating	Item	Avg. Rating
FOOD NAME	★	FOOD NAME	★	FOOD NAME	★
FOOD NAME	★	FOOD NAME	★	FOOD NAME	★
FOOD NAME	★	FOOD NAME	★	FOOD NAME	★

Clickable

will show a random food item page

TODAY / HOME PAGE

Today Full Menu All Universities Random Search

Sort By: Name ↑ ↓ Rating ↑ ↓

Full Menu:

University of Illinois at Urbana-Champaign
Field of Greens at Lincoln/Allen (LARS)

Breakfast:	Avg. Rating
FOOD NAME	★
FOOD NAME	★
FOOD NAME	★
FOOD NAME	★
FOOD NAME	★

clickable

Can sort by ascending or descending

*NOTE: will have to choose a dining hall first to get here

FULL MENU PAGE

Today Full Menu All Universities Random Search

Food Name

Information

University Name

Offered by the following Dining Halls:

Field of Greens at Lincoln/Allen (LARS)

ISR Dining Center at Illinois Street (ISR)

Allergen Information: peanuts

discrete 3★

Reviews (1)

The chicken was very dry. The sauce was okay but it could have been seasoned a bit more.

147 20

clickable, takes you to edit review page

more reviews upon scroll, sorted by most recent on top

FOOD ITEM PAGE

Today Full Menu All Universities Random Search

Sort By: Name ↑ ↓ Rating ↑ ↓

All Universities

UNIVERSITY NAME	Avg. Rating
UNIVERSITY NAME	★
UNIVERSITY NAME	★
UNIVERSITY NAME	★
UNIVERSITY NAME	★
UNIVERSITY NAME	★

clickable

avg rating by university will implement if we have time

ALL UNIVERSITIES PAGE

Today Full Menu All Universities Random Search

University Name

Dining Halls

Dining Halls	Avg. Rating
FAR Dining Hall at Florida Avenue (FAR)	★
Field of Greens at Lincoln/Allen (LARS)	★
ISR Dining Center at Illinois Street (ISR)	★
Ikenberry Dining Center at Ikenberry Commons	★
PAR Dining Hall at Pennsylvania Avenue (PAR)	★

clickable

avg rating by dining hall will implement if we have time

DINING HALL SELECTION PAGE

Today | Full Menu | All Universities | Random | Search |

Sort By:
Name ↑↓
Rating ↑↓

☐ All Universities

Search for:

Results for: Chicken

Item	Avg. Rating
Chicken Parmesan	—★
Chicken Pot Pie	—★
Tofu and Chicken	—★
Chicken Tenders	—★
General Tsos Chicken	—★

could potentially also show the university's dining hall this is offered at if we have time

checkboxes or some sort of T/F

SEARCH PAGE

Today | Full Menu | All Universities | Random | Search |

Profile

First Name: Michael username: mscott
Last Name: Scott University: University of Illinois at Urbana-Champaign

to access profile!

PROFILE PAGE

Today | Full Menu | All Universities | Random | Search |

Your Reviews

Item	Dining Hall	Rating	Reviews
FOOD NAME	Field of beans at...	—★	I thought... EDIT
FOOD NAME	Field of beans at...	—★	N/A EDIT
FOOD NAME	Field of beans at...	—★	The greens... EDIT
FOOD NAME	Field of beans at...	—★	N/A EDIT
FOOD NAME	Field of beans at...	—★	N/A EDIT

ordered by most recent on top

YOUR REVIEWS PAGE

Today | Full Menu | All Universities | Random | Search |

FOOD NAME

Dining Hall:

Your Rating:

Your Review:

dropdown selections

Selecting a dining hall will load the corresponding user rating ("N/A" if not rated yet)

EDIT REVIEW PAGE

Project Work Distribution

For our project, we've divided our work into five different sections: User Management, University & Dining Hall Sorting, Rating & Review Management, the Search Feature, and the Random Function, which covers all the bases of functionality within our Functionality section. Here is the following breakdown of our roles and responsibilities:

- Arielle is in charge of our **User Management**. She will be in charge of creating the initial Welcome Page and both the relating Create Account and Login to Account Pages, all of which will have to access the Users table in the backend while also inserting new entries as accounts are made. She will also create our User Profile Page, which will have to access a User's reviews from the Reviews table.
- Aditya is in charge of the **University & Dining Hall Sorting**. He will be in charge of the Dining Hall Selection Page (based on the selected University), which will have to access the data from the University Table and Dining Hall Table to display potential options. He will also be in charge of creating the Home Page/Today's Menu Page, which will draw from the Schedule Table, Food Item Table, and Dining Hall Table. He will also create the All Universities Page, which will draw from the University Table.
- Sue will be in charge of **Rating and Review Management**. This involves the creation of the Food Items Page where she will have to use every table except the User table in the

DB to accurately show the page information. This also includes the Add / Edit Review Page where she will have to use Update and Insert commands with the Reviews table.

- Miguel will be in charge of the **Search Feature**. This will allow users to search for Food Items by keyword(s), potentially expanding this to include searches for Universities, Dining Halls, or more. We can try to work on this to include further filtering as we flesh out this application. This will draw from the Food Item Table, Dining Hall Table, and University Table. He will also be in charge of our **Random Function**, which is our Creative Feature. This will return a random Food Item within the University's Dining Halls for Users to check out, which will be accessing the same tables as above.