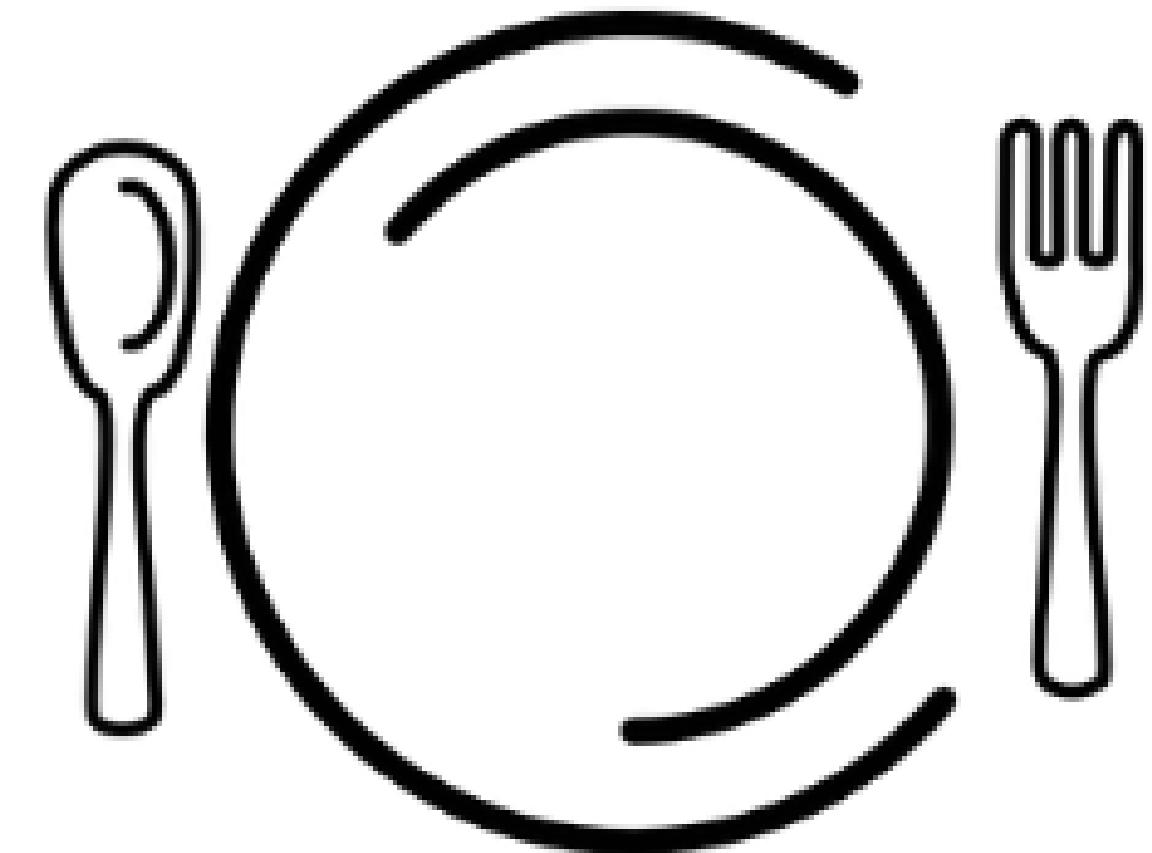


## SFWRENG 2XB3 Proposal

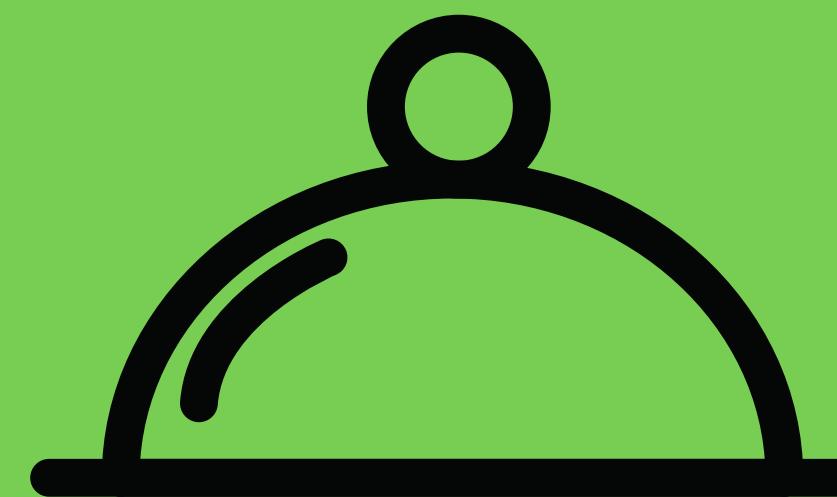


# universitEats

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# OBJECTIVE

UniversitEats is a program targeted to university students which recommends cheap and highly-rated restaurants



# MOTIVATION



- University students struggle to find a quality place to eat nearby
- We are overwhelmed with the amount of restaurants nearby campus
- Time is important

# PRIOR WORK

- There are pre-existing food applications like Uber Eats, Skip the dishes and Door dash
- The key difference of our app – Streamlining of food options
- Narrowing options according to proximity to save time of picking restaurants
- Catered to university students in terms of budgeting money by choosing a preferred cost range



# INPUT



- Yelp open dataset
- User will input:
  - Their location.
  - Food preference.
  - If they care more about rating or distance.
  - The price range they want the food to be.

# OUTPUT

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- A restaurant
- A refresh button
- Distance between inputted location and the restaurant



# PROPOSED SOLUTIONS

- Collect subset of valid locations
- Sorting based on user-inputted parameters
- Output ideal location



# ALGORITHMS REQUIRED

- An overarching ranking algorithm
- This sorts based on results of various sorting, searching, and string algorithms



# ALGORITHMIC CHALLENGES

- Searching/ sorting through large data set
- Storing a large amount of data
- Optimizing speed





**THANK YOU!**