# **Ubiquitous and Mobile Computing CS 4518:** *Crowdsourced Free Food*

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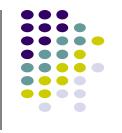


#### Want Food?



- In the United States, roughly 30% 40% of food is wasted! [1]
- 7 out of 10 students are stressed about their finances [2]
  - But it's necessary to buy food to eat!

### Introducing FeedMe!



- An app to share and notify about free food
- •Know where there's free food? Post it!
- •Hosting an event with free food? Post it!



- Upvote and downvote posts based on availability
- Find free food in the moment

#### **Target Demographic**



- Areas where free food readily available: College
- Event coordinators
  - Advertise food at your event
- Hungry college students
- Hungry professors

#### **Related Works**

Yelp



FreeFoodFinder

Food loyalty programs







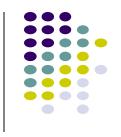
- Google Maps Service: Markers over locations with free food for that day
  - Limited to WPI campus
  - Automatically drops pins when you post
  - Tap a pin for event info



- Location Service: When adding a post get the current location
  - Using Google Play services to get the longitude and latitude of the last known location



- SQLite database to store information about each post
  - Event title, food type, location name
  - Location (longitude, latitude)
  - Number of upvotes downvotes



- Feed with posts which can be upvoted and downvoted (crowdsourcing)
  - Can be sorted by
    - Event title
    - Food type
    - Location
    - Votes
    - Most recent

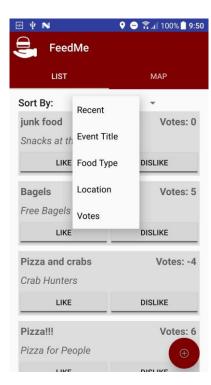


## **Demo**

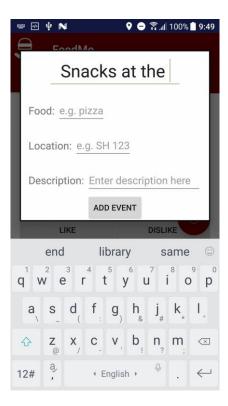
## UX/UI







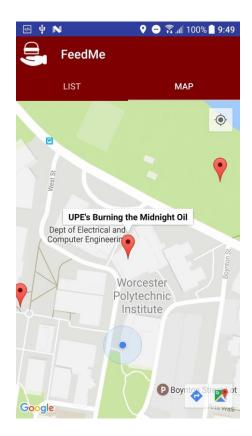
## UX/UI







## UX/UI





#### **Evaluation: User Quotes**

- "Intuitive"
- "The color is nice"
- "I like the sorting"
- "I like the map"
- "When does the event start?"

#### **Future Work**



- Connecting FeedMe to a server
- Real time database
  - Firebase
- Account systems
  - Keeps track of total points
  - Used to synchronize upvote
- Rewards system
  - Give flair or special font to active users

#### **Future Work**

- Improved visuals
  - Food icons based on types of food
  - Add pictures of event
- Post managment
  - The ability to add/edit posts by OP
- Sort by distance from event

#### References



- https://www.usda.gov/oce/foodwaste/faqs.htm
- 2. https://news.osu.edu/news/2015/07/01/financial-wellness/
- 3. Icons made byFreepik, from http://www.flaticon.com Licensed by Creative Commons
- 4. https://www.freefoodfinder.co/users/sign\_in
- 5. https://en.wikipedia.org/wiki/File:Starbucks\_Coffee\_Logo.svg
- 6. https://www.yelp.com/brand