delecTable

Amanda Adkins, Sam Mailand, Alec Thompson
The Problem

• Average American eats out 5 times per week
• 18 million people have some degree gluten allergy
• 3 million people have a tree nut allergy
• People want to record restaurants visited while traveling
Related Work

- OpenMenu
- Zomato
- Yelp
- Evernote Food
Methodology/Requirements

- Create a new food
- Picture of food
- Pull nearby places
- Ratings for foods and restaurants
- Notifications when at a stored restaurant to suggest foods
- View highly rated foods
Implementation

- PlacePicker - Google Places API
- Maps/Open in Google Maps
- Geofencing
- Camera
- SQLite database
- UI - ViewPager, Fragments, Listview, Navigation Drawer
Implementation: Create Food

- Can record
  - Food name
  - Rating
  - Price
  - Comments
  - Picture
  - Location

Uses Google Places API and place picker to get location
Implementation: View Recorded Foods

Foods stored in database
Can view later

Foods Overview

Food Details
Implementation: View Locations

Foods grouped by location

Can view foods at each restaurant

Locations Overview

Location Details
Implementation: Open in Maps

See the location on a map

Open in Google Maps for directions and more details

Location on Map

Location Opened in Google Maps
Implementation: Notification and Geofencing

Notifications suggest past highly rated meals if restaurant detected

Can view all information about current restaurant
Implementation: Sort and Filter

Can sort or filter by distance from current location or rating

Sort/Filter Options

Filtered Options
Results and Discussion

• Didn’t get to implement chain restaurant suggestions due to limited API

• User Studies
  • 10 students at WPI
  • What features are most important?
  • How intuitive are various features?

  Good: Google Maps integration and geo-fencing

  Bad: Interface is confusing at times, notifications can get annoying

What to add: Social aspect for viewing other people’s meals (and getting allergy information)
Our Vision: Future Work

- Social Integration
- Meal preference analysis and suggestions
- Food/Meal Database
- Other API’s - Yelp, OpenMenu, etc.
- Chain Restaurant Recognition
- User Customization
- Further User Interface Improvements
Questions?