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

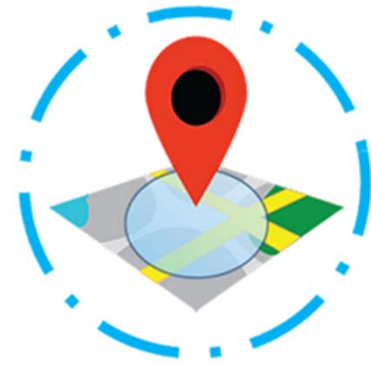- People want to record restaurants visited while traveling

Related Work

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

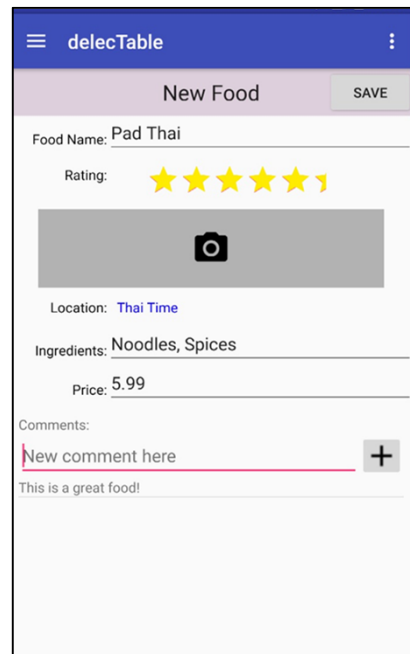- View highly rated foods

Implementation

- PlacePicker - Google Places API

- Maps/Open in Google Maps

- Geofencing

- Camera

- SQLite database
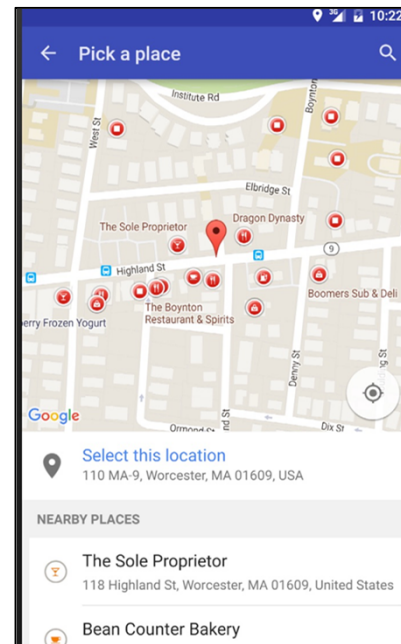
- UI - ViewPager, Fragments, Listview, Navigation Drawer

Implementation: Create Food

- Can record
  - Food name

  - Rating

  - Price
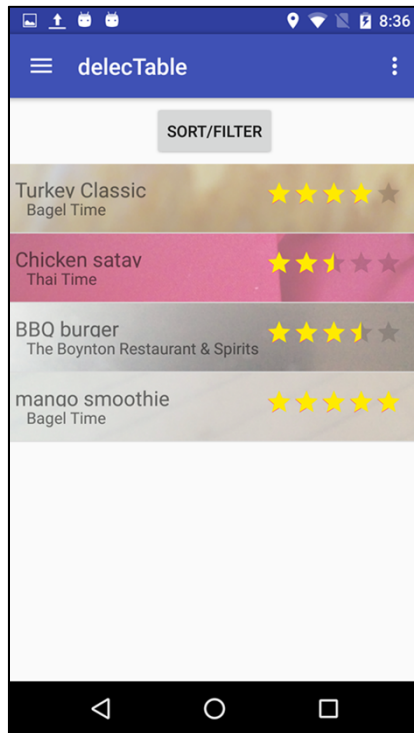
  - Comments

  - Picture

  - Location

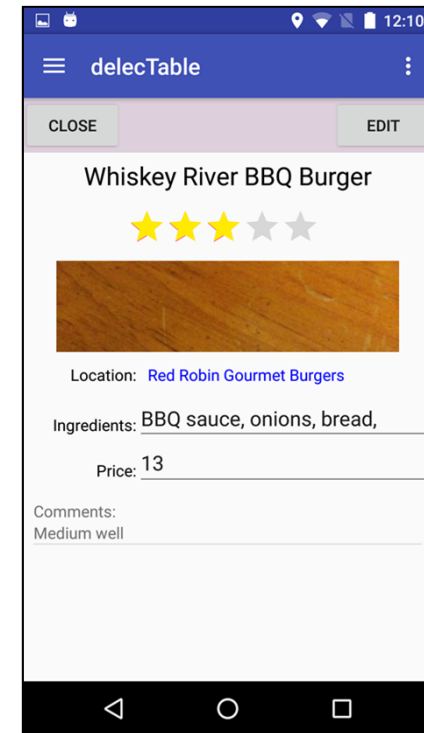Uses Google Places API and place picker to get location
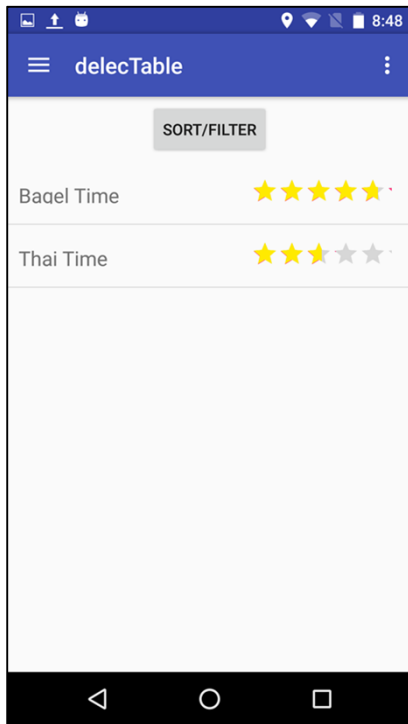
Implementation: View Recorded Foods

Foods Overview

Foods stored in database
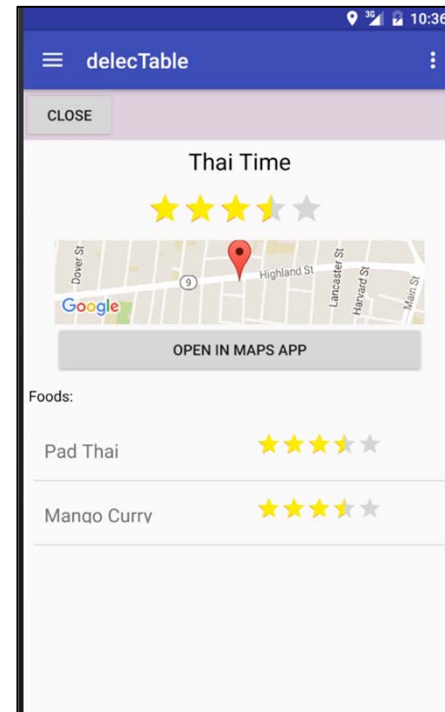
Can view later

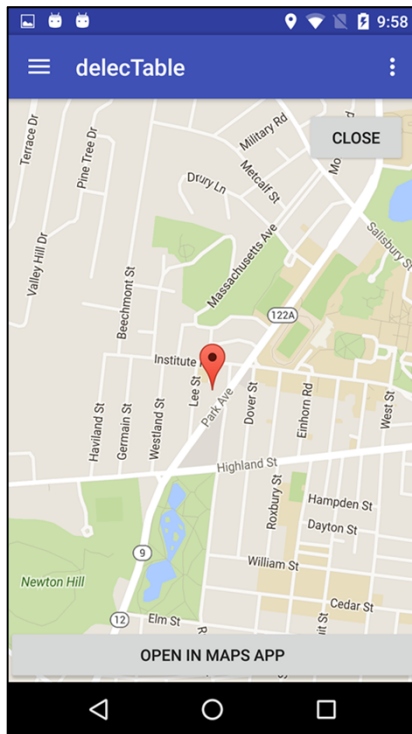
Food Details

Implementation: View Locations

Foods grouped by location

Can view foods at each restaurant

Locations Overview   Location Details
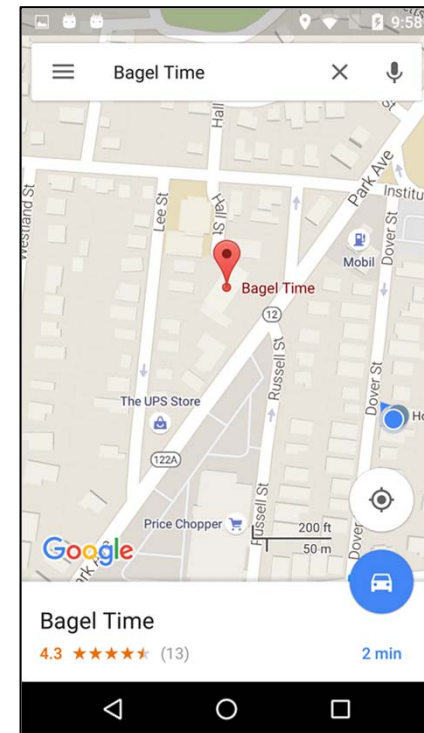
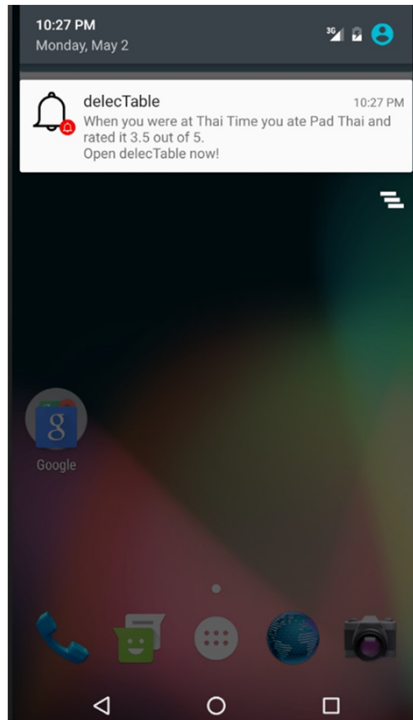# Implementation: Open in Maps

Location on Map

See the location on a map

Open in Google Maps for directions and more details
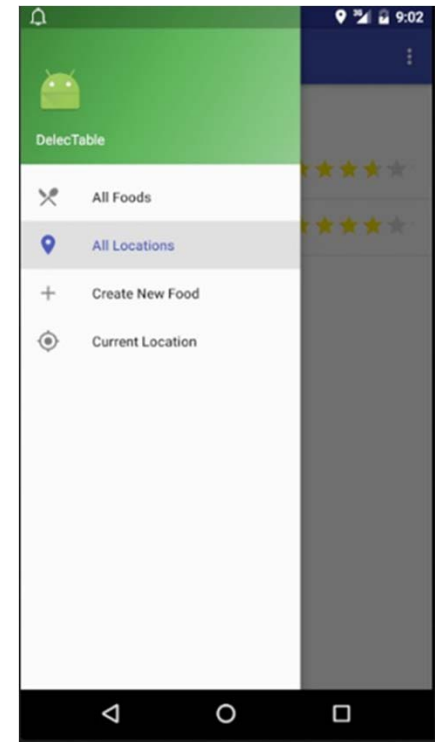

Location Opened in Google Maps

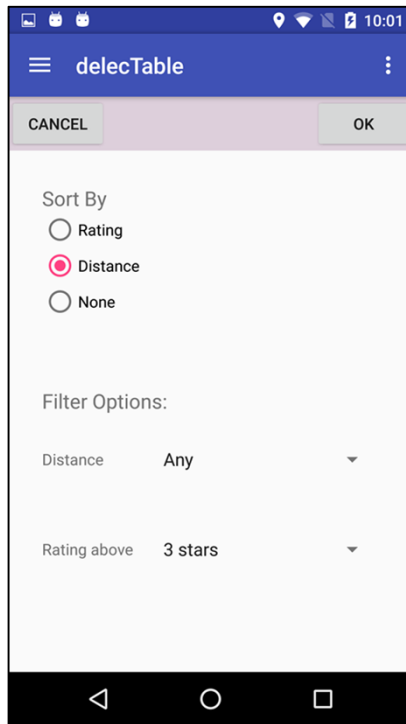# Implementation: Notification and Geofencing

Notification View

Notifications suggest past
highly rated meals if
restaurant detected
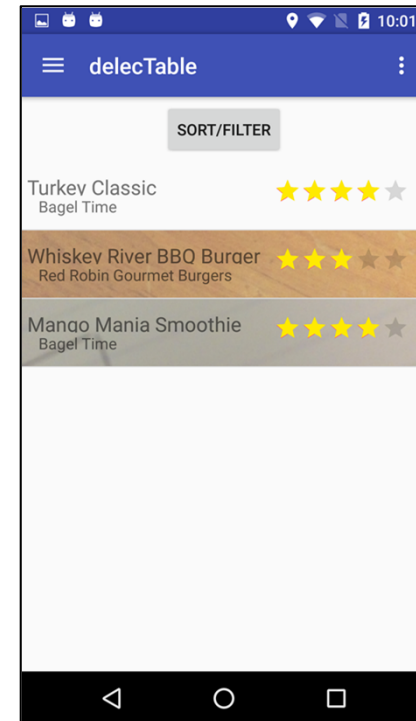
Can view all information
about current restaurant

View Current Location

Implementation: Sort and Filter

Sort/Filter Options

Can sort or filter by distance from current location or rating

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?