EATQUEST

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INTRODUCTION

EatQuest is an app that will help the user find a restaurant in their immediate vicinity. The user will be able to pinpoint exactly what kind of food they want, the price they are willing to pay, and the distance they are willing to drive to get to their food location.

PURPOSE

The purpose of this app is to simplify the restaurant selection process; to give the user a streamlined dining experience. As a result, we only show the available restaurants in the immediate vicinity.
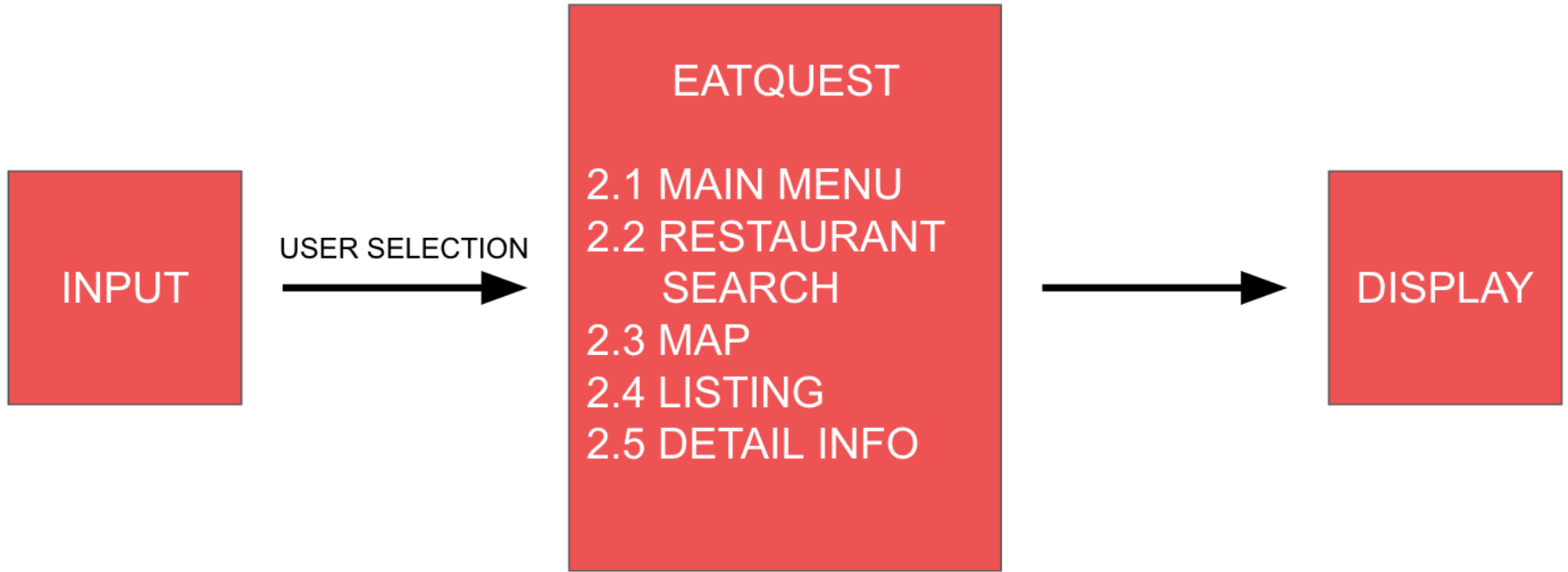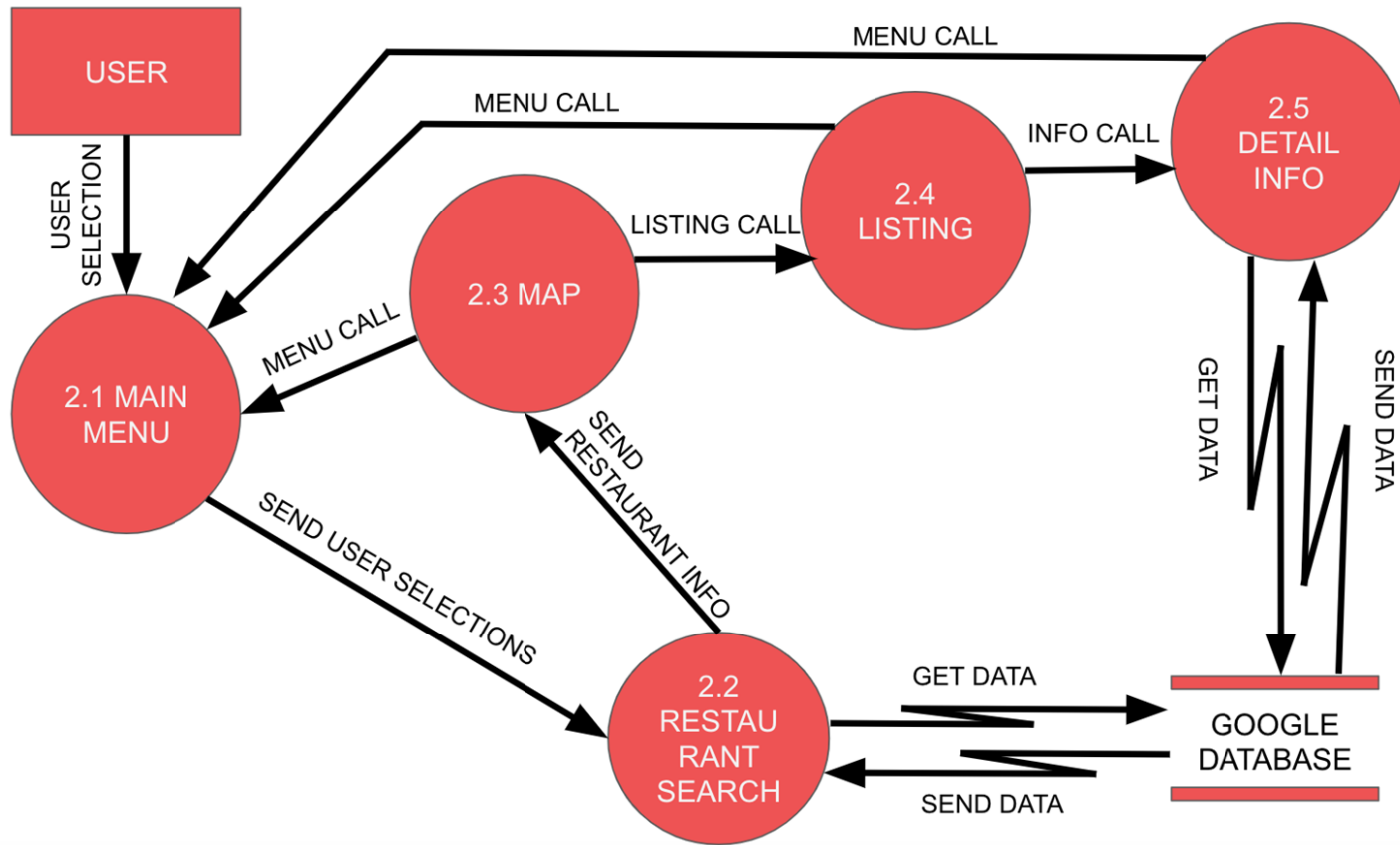
INTENDED AUDIENCE
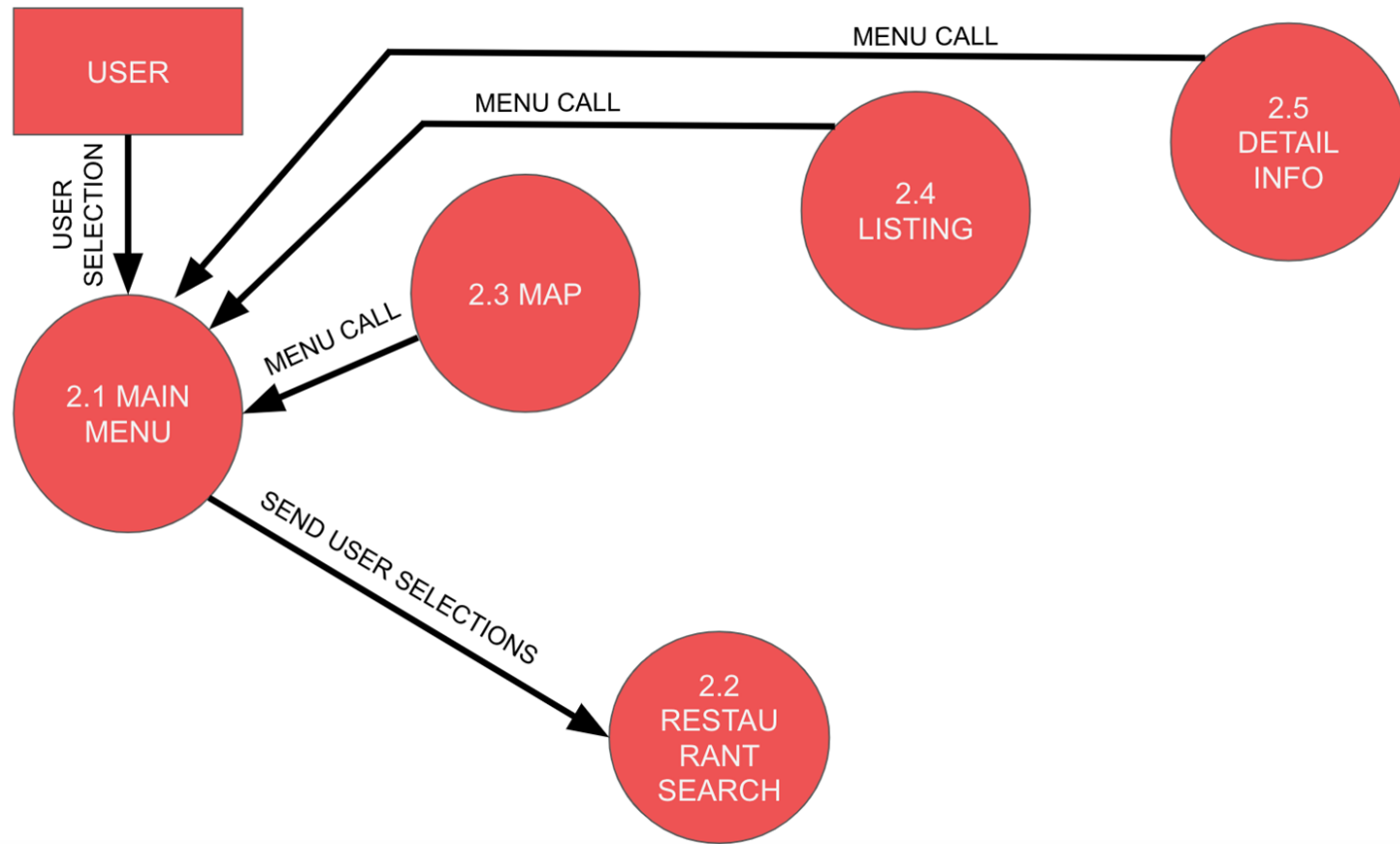
Technologically challenged

Pedestrians

Locals & Travelers

INPUT

USER SELECTION

EATQUEST

2.1 MAIN MENU
2.2 RESTAURANT SEARCH
2.3 MAP
2.4 LISTING
2.5 DETAIL INFO

DISPLAY

LEVEL 0 DFD

LEVEL I DFD

MAIN MENU MODULE (MMM)

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- Menu where users make their restaurant selections.

- The options to choose from include food type, distance, and price level.

EatQuest

Select food type:

Mexican

Select distance:

1 mile

Select maximum price level:

1 - Inexpensive

GO TO MAP

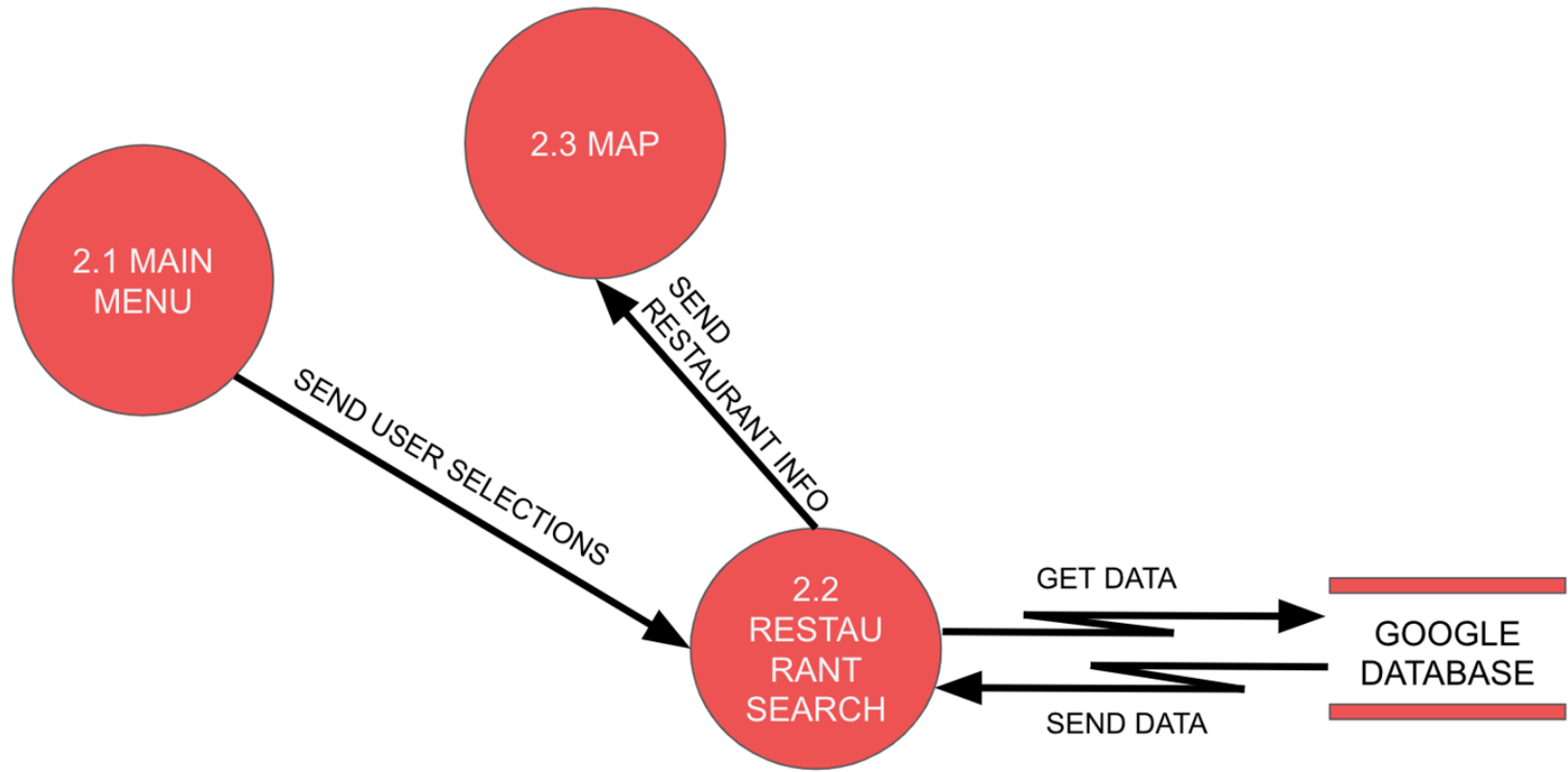| 2.1: Main Menu Module (MMM)	
4.1.2.1-1	MMM shall take the user's selections (see Glossary).
4.1.2.1-2	MMM shall send the user's selections to the RSM.
4.1.2.1-3	MMM shall display a button that will take the user to the MM.

MMM REQUIREMENTS

RESTAURANT SEARCH MODULE (RSM)
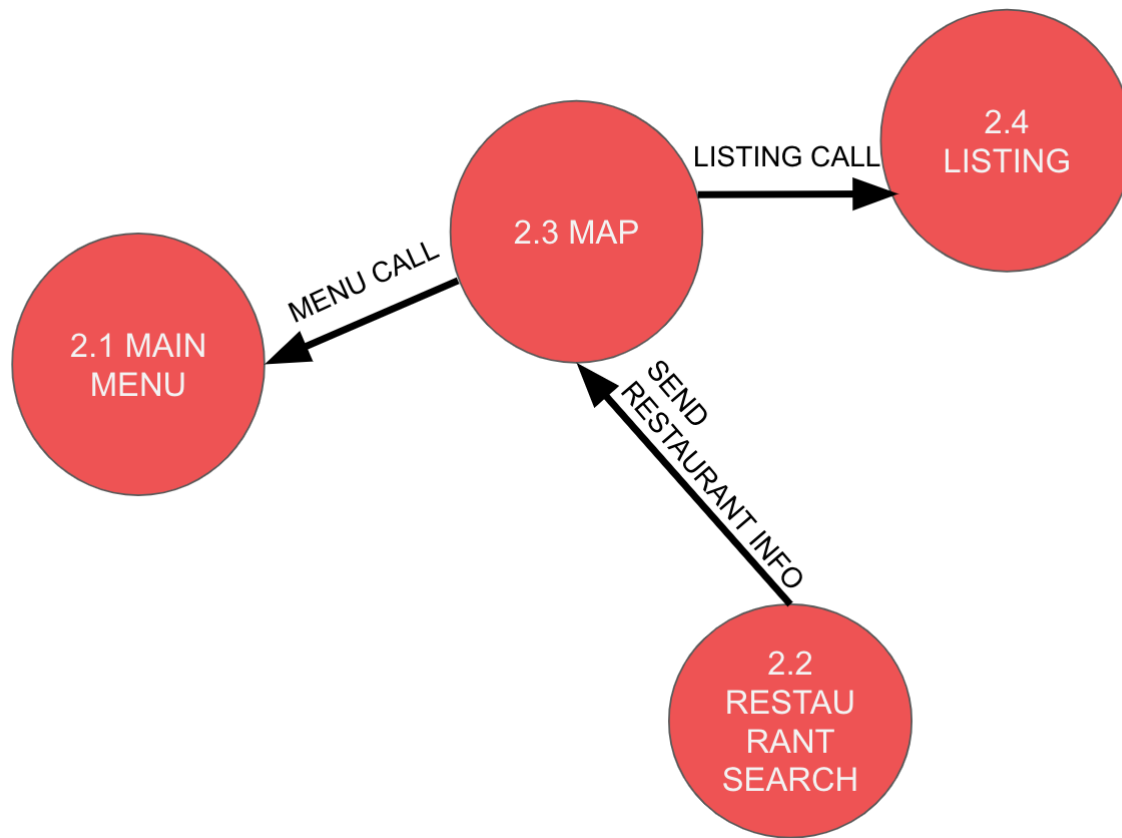
RESTAURANT SEARCH MODULE (RSM)

- Uses the Places API to search the Google database for the nearby restaurant locations that fit the user's selections.

- Sends the restaurant location information to the MM and the LM.

```
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 },
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    "short_name" : "N Rengstorff Ave",
    "types" : [ "route" ]
 },
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    "types" : [ "locality", "political" ]
 },
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    "types" : [ "administrative_area_level_2", "pol
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    "types" : [ "administrative_area_level_1"

       name" : "United States",
              "US",
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2.2: Restaurant Search Module (RSM)

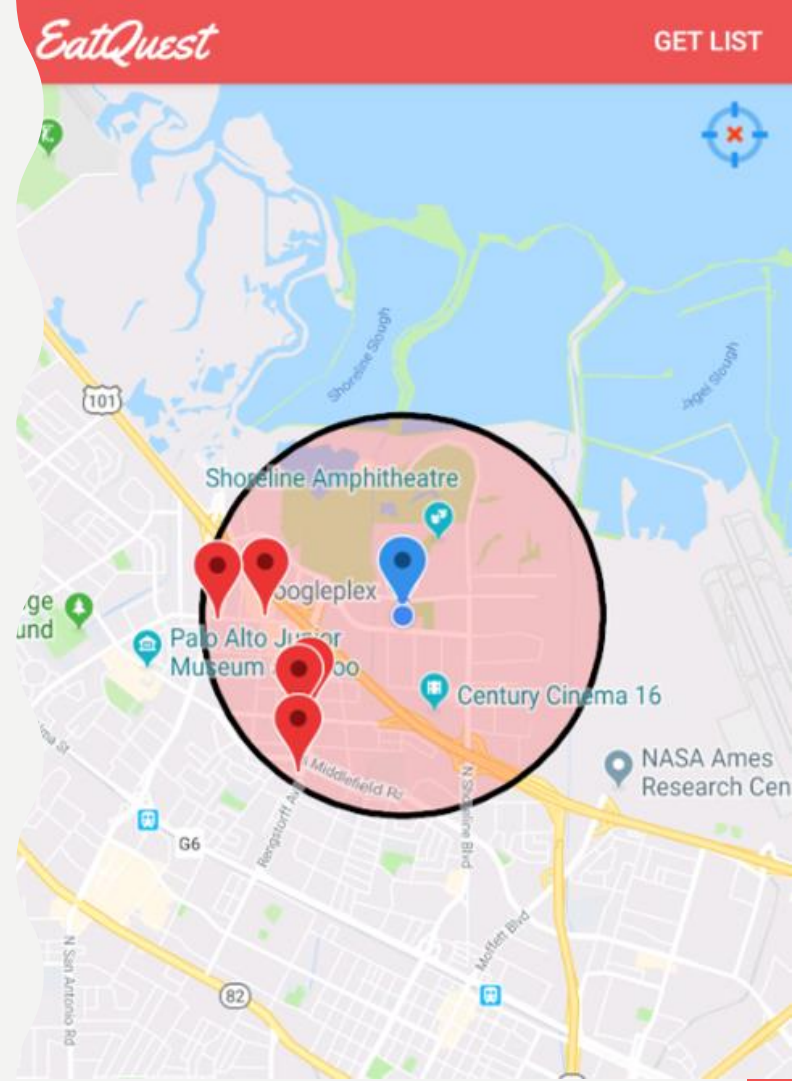|	
4.1.2.2-1	RSM shall receive the user's selections from the MMM.
4.1.2.2-2	RSM shall search the Google database for nearby restaurants to the user's current location.
4.1.2.2-3	RSM shall filter the nearby restaurant locations to the user's selections.
4.1.2.2-4	RSM shall send its search results to the MM.

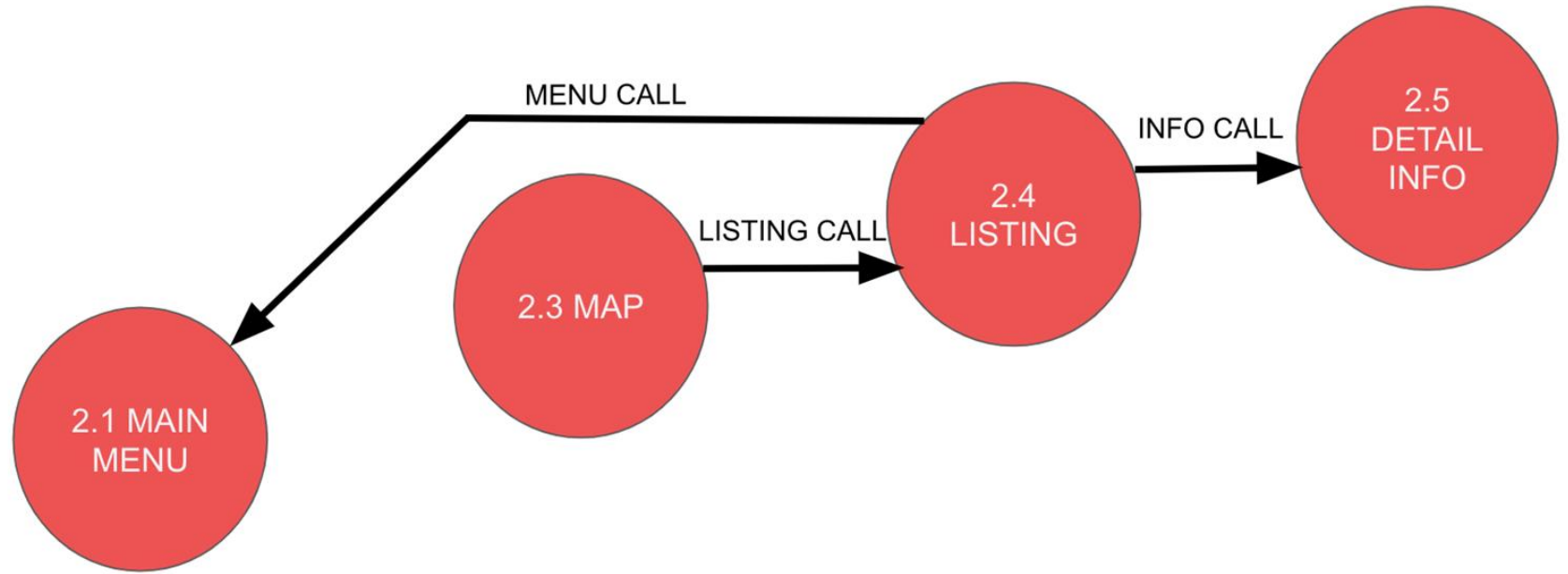# RSM REQUIREMENTS

MAP MODULE (MM)

MAP MODULE (MM)

- Displays map.

- Tracks and displays current user location.

- Displays nearby restaurant locations around user's current location.

- Target button orients user to their current location on map.

2.3: Map Module (MM)	
4.1.2.3-1	MM shall display a map.
4.1.2.3-2	MM shall track the user's current location.
4.1.2.3-3	MM shall display a marker of the user's current location on the map.
4.1.2.3-4	MM shall receive the locations of the nearby restaurants from the RSM.
4.1.2.3-5	MM shall display markers of the nearby restaurant locations on the map.
4.1.2.3-6	MM shall display a button that will orient the user back to their current location if they move too far on the map.
4.1.2.3-7	MM shall display a button that will take the user to the LM.
4.1.2.3-8	MM shall display a clickable title logo that will take the user to the MMM.

MM REQUIREMENTS

LISTING MODULE (LM)

LISTING MODULE (LM)

- List of nearby restaurants.

- Displays restaurant name, rating, distance, and price level.

- Sorting buttons for distance, rating, and price level.

Los Altos Taqueria
Rating: 4.3/5
Distance: 0.75 miles
Price level: Inexpensive

Taqueria La Bamba
Rating: 4.2/5
Distance: 0.95 miles
Price level: Inexpensive

TacoMania
Rating: 4.2/5
Distance: 0.68 miles
Price level: Inexpensive
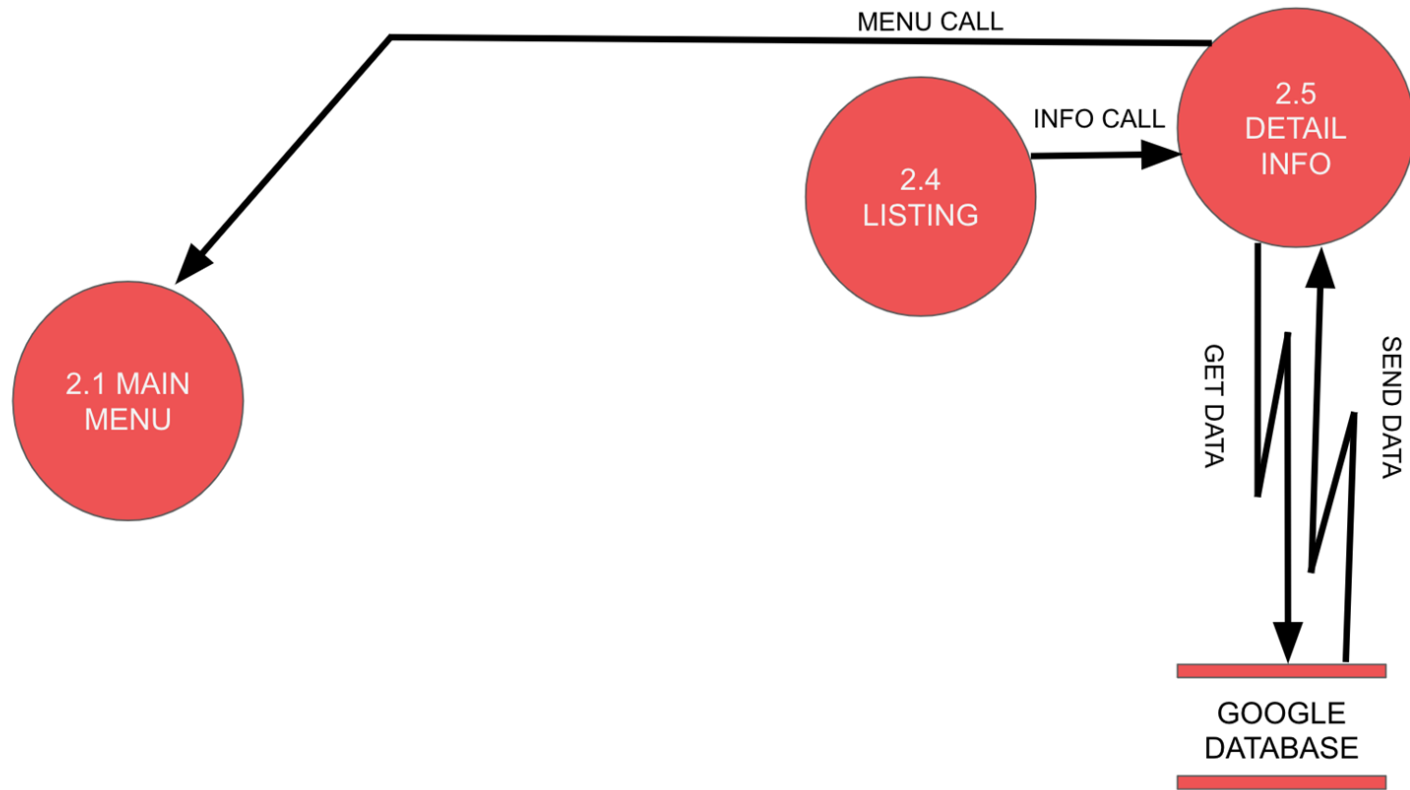
Chipotle Mexican Grill
Rating: 4.1/5
Distance: 0.69 miles
Price level: Inexpensive

2.4: Listing Module (LM)	
4.1.2.4-1	LM shall receive the filtered nearby restaurant locations from the MM.
4.1.2.4-2	LM shall list the nearby restaurants.
4.1.2.4-3	LM shall display the rating of each of the listed restaurants.
4.1.2.4-4	LM shall display the distance of each of the listed restaurant, relative to the user's current location.
4.1.2.4-5	LM shall display a button that will sort the list by price level.
4.1.2.4-6	LM shall display a button that will sort the list by rating.
4.1.2.4-7	LM shall display a button that will sort the list by distance.
4.1.2.4-8	LM shall display a clickable title logo that will take the user to the MMM.
4.1.2.4-9	LM shall take the user to the DIM when a restaurant on the list is clicked.

LM REQUIREMENTS

MENU CALL

2.4
LISTING

INFO CALL

2.5
DETAIL
INFO

2.1 MAIN
MENU

GET DATA

SEND DATA

GOOGLE
DATABASE

DETAIL INFO MODULE (DIM)

DETAIL INFO MODULE (DIM)

- Restaurant photo

- Address

- Phone number

Chipotle Mexican Grill

2400 Charleston Rd, Mountain View, CA 94043

(650) 969-6528

2.5: Detail Info Module (DIM)	
4.1.2.5-1	DIM shall display a picture related to the restaurant.
4.1.2.5-2	DIM shall display the name of the restaurant.
4.1.2.5-3	DIM shall display the address of the restaurant.
4.1.2.5-4	DIM shall display the phone number of the restaurant.
4.1.2.5-6	DIM shall display a clickable title logo that will take the user to the MMM.

DIM REQUIREMENTS