Brand name for the project:

Taste buds

Business functions and transactions:

**Business functions/transactions:**

Provides information about restaurants near the University of Maryland, including restaurant location, taste, price per person, user reviews, etc., to advise students on choosing restaurants.

**Mission Objectives:**

1.The system shall list available restaurants around University of Maryland.

2. The system shall precisely filter the result of restaurants based on various requests, e.g. location, flavor, price, etc.

3. The system shall provide reviews and tips from previous customers to give suggestions to new customers.

4.The system shall allow customers to add, alter and delete reviews and tips.

ER schema:

**Entities, Attributes and Primary Keys**

Coupon (**cId,** percentageOff)

Business (**bId**, bName, address, city, state, postCode, latitude, longitude, stars, reviewCount, isOpen)

Review (**rId**, stars, rDate, rText, useful, funny, cool)

User (**uId**, uName, yelpingSince, averageStars, eliteDate, fans)

Hours (**hId**, day, openHours, closeHours)

**Relationships, Attributes, Degrees, Participating Entities and Constraints**

Accept: binary relationship

1 Business to 1 or more Reviews

1 Review to 1 Business

Use: binary relationship

1 Coupon to 1 or more Businesses

1 Business to 0 or more Coupons

Open: binary relationship

1 Business to 0 or more Hours

1 Hour to 1 Business

Add Tips (Tip): binary relationship

1 Business to 1 or more User

1 Customer to 1 or more Businesses

Add Review: binary relationship

1 User to 1 or more Reviews

1 Review to 1 User

ER diagram:

