Team Members:

- Wesley Chau - Project Co-Owner
- Brian Yi - Project Co-Owner

Team Name:

- The Boston Common

Website: http://flip3.engr.oregonstate.edu:12345/

Feedback from the grader: Jing Wang: Well done!

Feedback from the peer reviewer:

1. James McGovern:

   Looking at your schema, one question I have is why not just make a website an attribute of a food truck?

   I think you could keep food types if you want as an attribute of the food truck. I don't think they have more than one type and it might make for more interesting searching later.

2. Daniel Tran:

   Great database idea, and definitely something that can be utilized in the real world. With regards to James' comment, it might be because a food truck doesn't always have a website. I'm not sure on the mechanics of allowing a website attribute to be null if it's associated with food truck, but it might be worth looking into.

   In terms of stretch goals that you listed, another goal might be to include a ranking system for the customer facing portion of the webpage, that can be added, kind of like a review entity associated with a food truck in a 1 to many ratio (a food truck can have multiple reviews or none, a review is associated with only 1 food truck and needs a food truck) to make a pseudo-yelp like experience.

   With regards to the ER diagram, all of the cardinalities and participation match up correctly from what I can tell, and reflect the proposal.

   I also agree with James with regard to the food type being an attribute of a food truck, just like restaurants have an associated type of cuisine (whether it be the ethnic origin like indian, chinese, mediterranean, or a particular style like bbq, noodle house, burger, breakfast, etc) and like he mentioned, it would make it a great search feature.

   The schema also looks like it reflects the proposal and the necessary tables correctly, and it has the foreign keys with their associated arrows correctly labeled as well. The attributes of the tables also match up with the proposal, great job!

   Really good idea overall, and it looks like it's something you can expand upon very well too.

3. Zhiye He

Wesley and Brain, your draft is great!

Especially for the ER diagram part, you used different color and more comment to help audience to understand the relationship between each entities.

And I also agree what James said that maybe change the pointer direction between Food Trunk and Website will be better.

Good design!

4. Shihao Song:

I really like your design. This design is clear and the design can be foreseen with great convenience.

Regarding the ER diagram, the links between the data are very well matched.

But one question, trucks have limited materials to carry, and it is possible to consider showing the food that has been sold out.

5. Mae Lapresta

I love food trucks, and am all for your idea! I also really like your included stretch goals, and your final product sounds great!

Changes based on reviewer feedback:

- Kept website as a separate entity because it does not help to define the food truck. For example, how a food truck's schedule does not define the food truck, the website does not define the food truck.
- Also, no stretch goals were added because the current stretch goals are already difficult enough to implement in the span of this class.
- Decided against adding food types because it is not currently critical to the use of the application at this time.

Changes based on grader feedback:

Notes from the grader: The two entities with many-to-may cannot be connect directly, you need to add a new entity to present the relationship. Keep one many-to-many to make it easy to implement.

Changes:

- Added a truck schedule in between our many-to-many relationships so they are no longer directly linked
- Removed food types as an entity
- Decided to keep more than one many-to-many relationship

Updated Outline:

The topic we have chosen for our project is to create a website that displays the schedule and information for food trucks which operate in Boston. The website will have 3 main functionalities.

1) To display a list of food trucks in the Boston area
2) To add/delete/update food trucks and parameters (location, time)
3) To search for food trucks given the truck name, location, and time of day. Any selection of search parameters will filter results.

The following are stretch goals given enough time.

1) to show food trucks in service on day accessed on page load
2) Expanded week view of food trucks
3) Interactive map with food truck locations
4) Clicking on food truck name will redirect to the food truck's website

Entities & attributes:

- Food Truck
    - Food truck id, INT
    - Food truck name, VARCHAR(50)
- Time slot
    - Time slot id, INT
    - Day of week, INT
        - Mon - Sun (0 - 6)
    - Time of day, INT
        - Breakfast (7 AM - 11 AM), 0
        - Lunch (11 AM - 3 PM), 1
        - Dinner (3 PM - 8 PM), 2
- Truck Schedule
    - Food Truck id, INT
    - Time slot id, INT
    - Location id, INT
- Location
    - Location id, INT
    - Location VARCHAR (50)
- Website
    - Website id, INT
    - Food truck id, INT
    - Website, VARCHAR (100)

Relationships:

FOOD TRUCK & TIME SLOT:

Food truck and time slot is a many-to-many relationship. A food truck can serve food in multiple time slots. A food truck must have at least one time slot. A time slot can have many food trucks available. A time slot does not need a food truck, it is possible for a day/time where there are no trucks. Upon deletion of a food truck, a time slot does not need to be deleted since there are a limited amount of time slots.

FOOD TRUCK & LOCATION:

Food truck and location is a many-to-many relationship. A food truck can serve in many locations, and a food truck must serve at least one location. A location can have many food trucks, however a location does not need a food truck servicing it. Upon deletion of a food truck a location does not need to be deleted since there are a limited amount of locations.

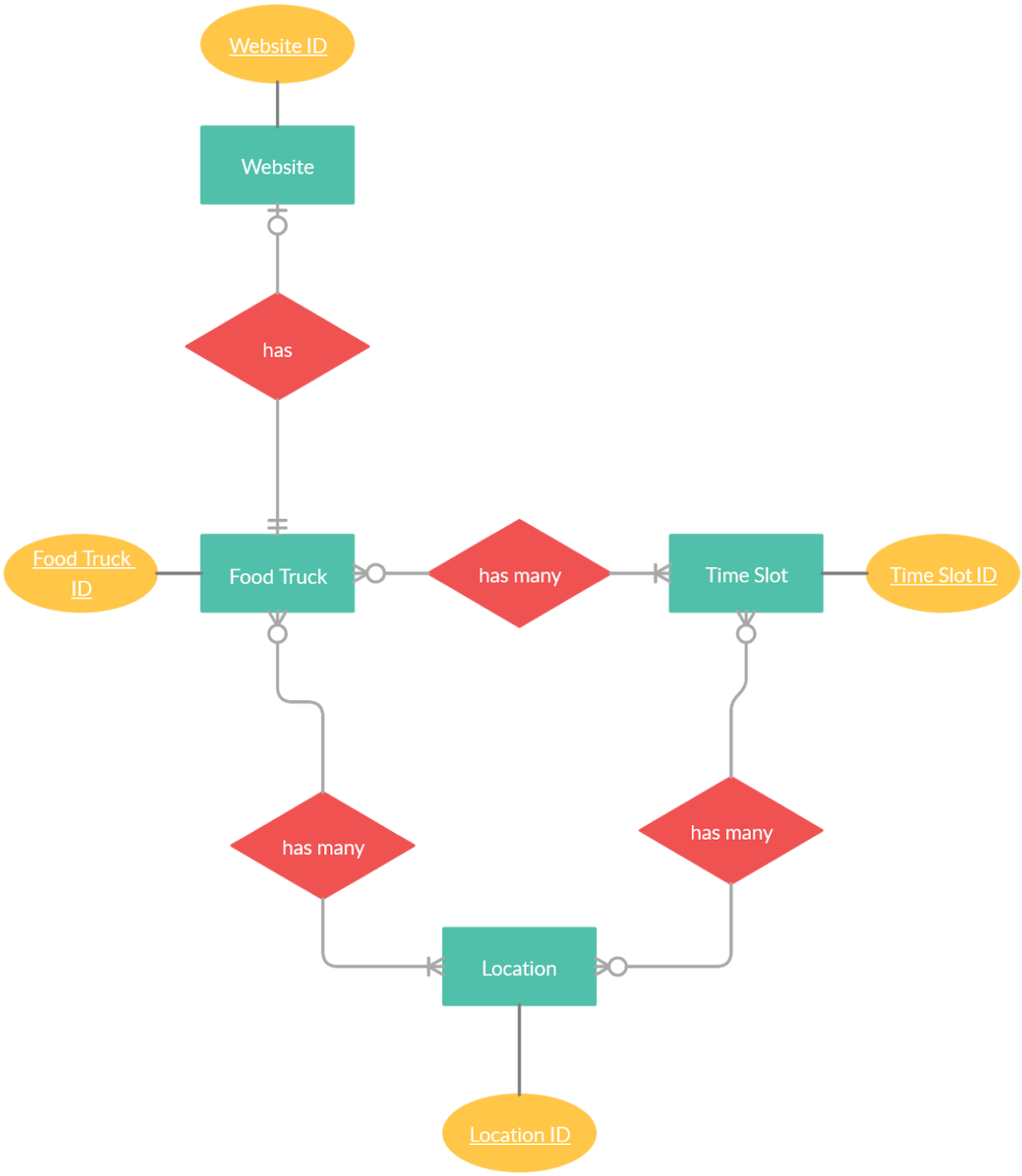
TIME SLOT & LOCATION:

Time slot and location is a many-to-many relationship. A time slot can have many locations associated with it and a location can have many time slots. A time slot does not need a location and a location does not need a time slot since there can be locations that do not have any time slots yet and vice versa.

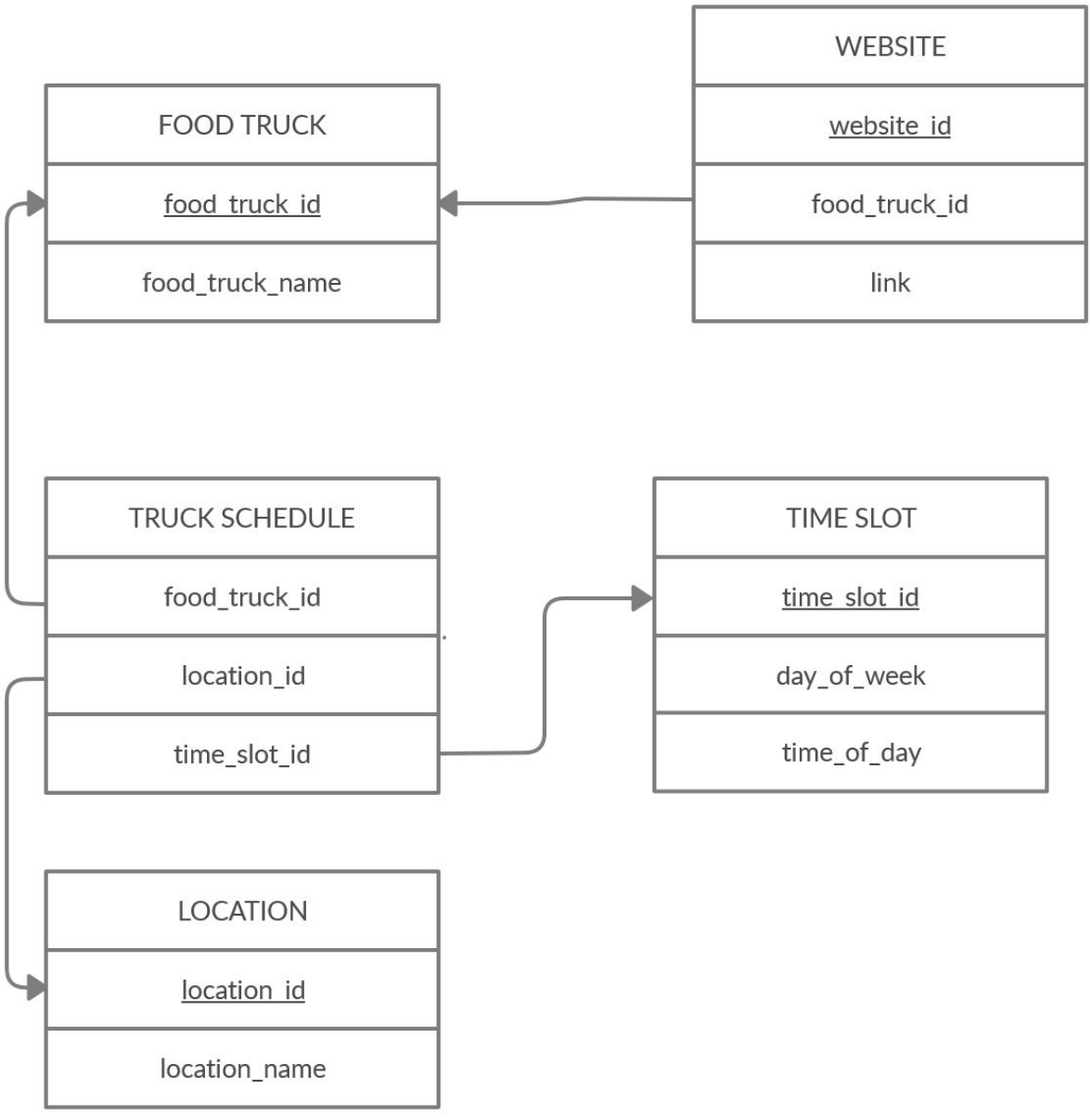
FOOD TRUCK & WEBSITE:

Food truck and website is a one-to-one relationship. A food truck may or may not have a website, but a website must have a food truck. Upon deletion of a food truck, a website must be deleted since there are an unlimited number of websites. Since it is rare to have the same website for two different food trucks, if there if a food truck that shares a website URL, a new website entry with a unique id will be created.

ER Diagram:


Website ID
Website
has
Food Truck ID
Food Truck
has many
Time Slot
Time Slot ID
has many
has many
Location
Location ID

Schema:


WEBSITE
website_id
food_truck_id
link
FOOD TRUCK
food_truck_id
food_truck_name
TRUCK SCHEDULE
food_truck_id
location_id
time_slot_id
TIME SLOT
time_slot_id
day_of_week
time_of_day
LOCATION
location_id
location_name