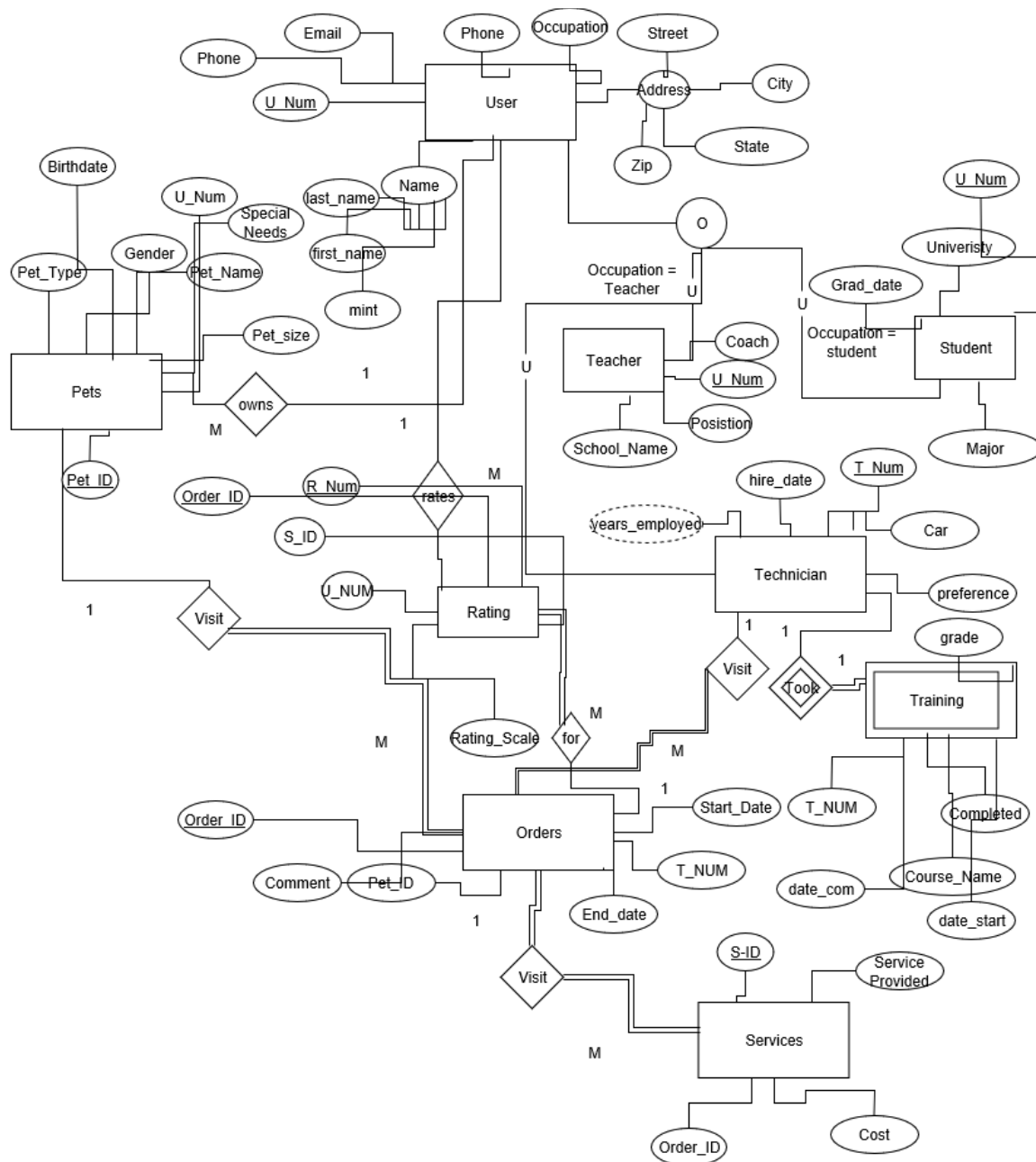Andrew Lawrence, Karyn Cook, Matthew Quesensbury, Atsou Senyo, Nivedita Kamtam

1) <u>Scope of the Project</u>- Paws-And-Claws goal is to create a database where a customer in North Carolina can register their dog or cat to receive pet care. The customer will be able to record their pets general attributes (Name, size, special needs, etc.), and choose a variety of pet care options from a visit, to a weekly boarding with medicine provided. The customer will be able to place order for pet care one at a time, and these orders will be recorded and will notify a proper technician what has occurred. These technicians will have been certified so that they will be able to provide safe and secure care for pets, a level of sitter vetting that Rover.com lacks, and thus will allow customers to get more value out of our sitters, since they will be able to perform tasks that require a higher level of training, such as giving medicine. Like Rover.com, the technicians will also be given a rating to allow for users to have input on the quality of service. We will have a prototype ready for testing by Dr. Patel under the parameters he asked for.

2) <u>Business Rules</u>-
    a) Our system will have one base table for user.
    b) Every user will create an account.
    c) Some users may be technicians, teachers or students.
    d) The user will then be asked if they wish to be a customer or a technician.
    e) The user will be asked to upload their pet's data.
    f) Technicians will be taken to the training page. To ensure the best care possible, the technicians will have to complete training.
    g) Training will be kept on a seperate board, a simple Boolean value of, completed, or not.The technician will record information that a customer would want to know about them
    h) A services table will list out the types of service available for a customer to choose.
    i) The customer, the technician and the service will be connected by a seperate table for individual visits.
    j) For customers who are teachers, a seperate table will be attached to adjust their costs with the provided discount.
    k) Also for customers who are college students, a separate table will be provided.
    l) A rating table will exist for customer users to grade how well a service was done in an order, and thus explain how well a technician completed that task

3) Assumptions
    a) Users will be allowed to personalize their own information, including things like email, name (Split into Last name, first name and Middle Initial), age, occupation, address (Split into street, City, State, and Zip). The user will then be assigned a unique id number.
    b) Pet information includes whether their pet is a dog or a cat, the pet's name, gender, size, birth date, and any special need. The first set of customers will have their data entered from Dr. Patel's database.

c) If training not been completed, the technician's profile will not appear to the customer. Training table will also have course_name, course completion date, date started and grade.
d) This information includes if they have a car (Boolean value), a preference for a type of pet, a hire_date for the day they were certified, and a derived attribute list how many years they have been employed by Paws-and-Claws.
e) The attributes for services listed will be ServiceID, Type and Cost.
f) The services provided include Overnight Boarding, Visit, Walk, Feed, Day Care, Bathe, Shop and Medicine, covering the wide variety of tasks a pet owner would want in a pet care service. They will cost $22, $8, $12, $8, $15, $20, $12 and $12 respectively.
g) These visits will be given an individual ID, alongside listing the Service ID, the Customer's number and the Owner's number, Pet's number.
h) The Teacher's table will keep track of position, school name and coaching position.
i) The College Student's table will keep track of the student's school name, major and graduation date.
j) The information that Dr. Patel provided covers 15 teachers and 10 students in NOrth Carolina.
k) The Rating table will have user number of the customer, technician number, Service ID, and a rating scale of 1 to 5, 1 being very bad, and 5 being very good.

3) EER

Assumption

T_# and U_# are the same value,
thus allowing it to be brought
down.

4) Schema:

User (U_num, last_name, first_name, mint, email, occupation, street, city, state, zip_code, phone number)

Teacher (U_num, school_name, position, coach)

Student(U_num, university, grad_date, major)

Technician (u_num, car, preference, hire_date, years_employed)

Training (U_num, completed, course_name, date_start, date_com, grade)

Pet(Pet_ID, pet_name, pet_type, pet_size, gender, special_needs, U_num, birthdate,)

Orders(Order_ID, U_num, comment, end_date, start_date, Pet_ID)

Services(S_ID, service_provided, cost, Order_ID)

Rating(R_num, S_ID, U_num, rating_scale, Order_ID)