Conceptual Sketch: Collaborative Itinerary Planner
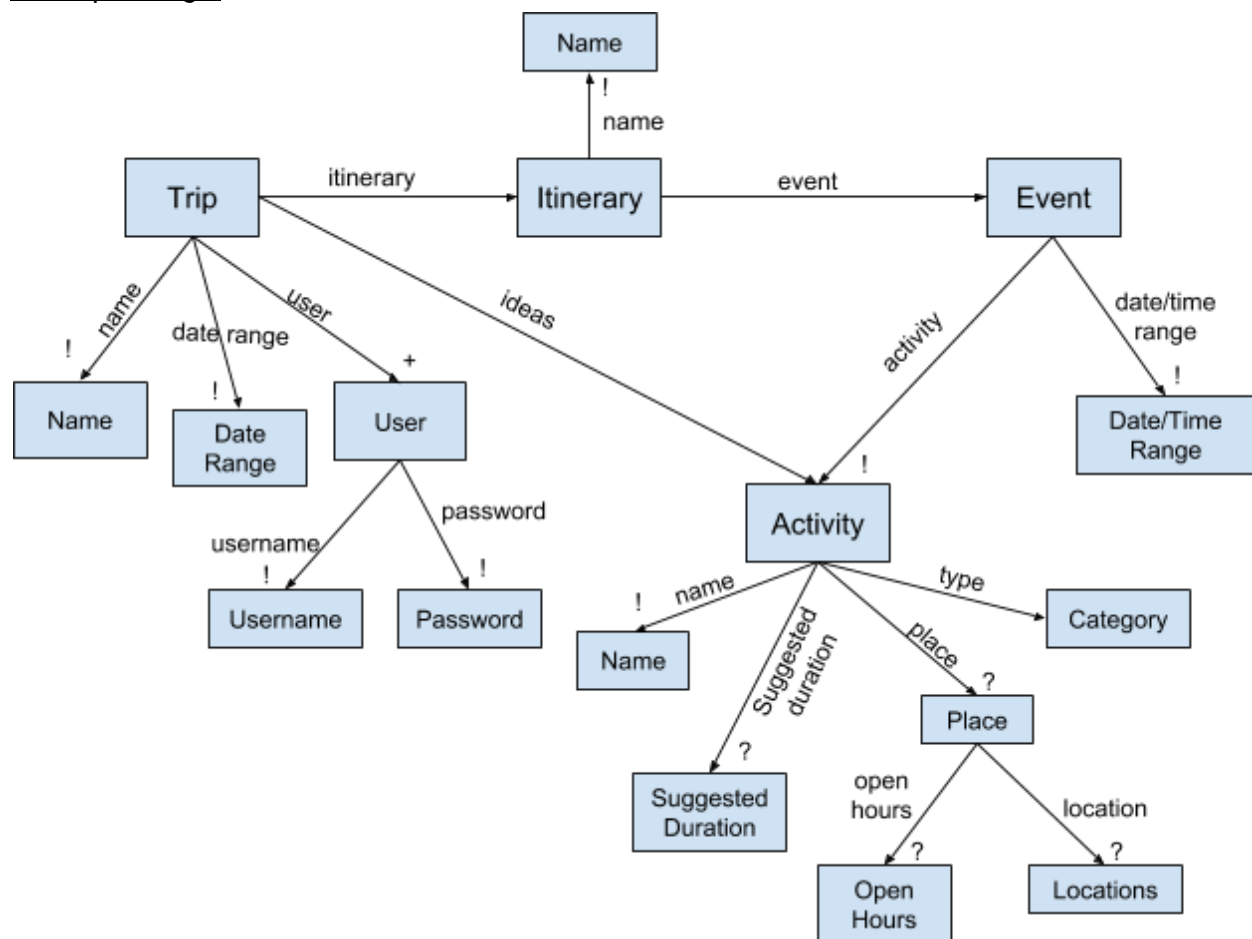## Team: JuiCy buNS

What problem the project addresses and why it matters

Planning a trip with multiple people isn't easy when everyone has different interests and different places they want to visit. Many groups typically gather their ideas on a Google Doc, pasting links to Yelp Reviews or TripAdvisor, but this gets visually unappealing and unorganized. Collaborative Itinerary Planner aims to allow individuals on the trip to list their interests and create a schedule for their trip together. It also allows people to create multiple itineraries, in the case that people within the group want to split up.

How the app will work, expressed in terms of some key concepts and their structure and behavior

Concept Design:

Textual Constraints:
Itinerary i can only contain an Event e where e.activity belongs in i.trip.activities

Operational principles:
User logs in with username and password.
Create trip with name and date range.
Invite other users to help plan trip.
Create activities for trip with:
        name
        suggested duration (optional)
        place (optional) containing:
                opening hours (optional)
                location (optional)
        category (optional)
Create an itinerary with a name.
Add events that consist of an activity and its time range to the itinerary.
View and edit itineraries for this trip.
Talk to the others in the trip (outside app) and agree on itinerary(ies).
Go on trip.
Have fun.
Come back.
Cry.
Start planning next trip.

Why the problem isn't trivial to solve (e.g. what your app will do beyond [CRUD])

Permission to view: users can only see itineraries for trips they have been added to.
Shared editing: multiple users can edit the same itinerary at once. (Resolve concurrency issues.)
Display all information (activities, calendar, map, etc.) in a way that the user can easily navigate through.