

UC Merced Parking Tracker App

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Project Description

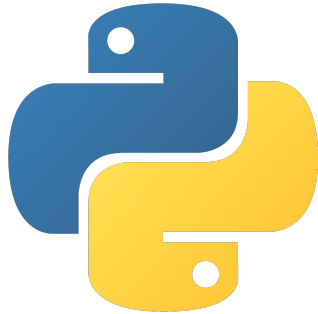
- Our project is based on tracking personal parking and permits within the UC Merced parking lots
- Users (students, staff, faculty, guests) are able to...
 - Sign in/Create accounts
 - View/Apply for permits
 - View/Register vehicles
 - Look at the map, which contains the spots, lots, and zone assignments
 - Track what spot your vehicle is in
 - Track what spots are available

Project Techstack

Backend



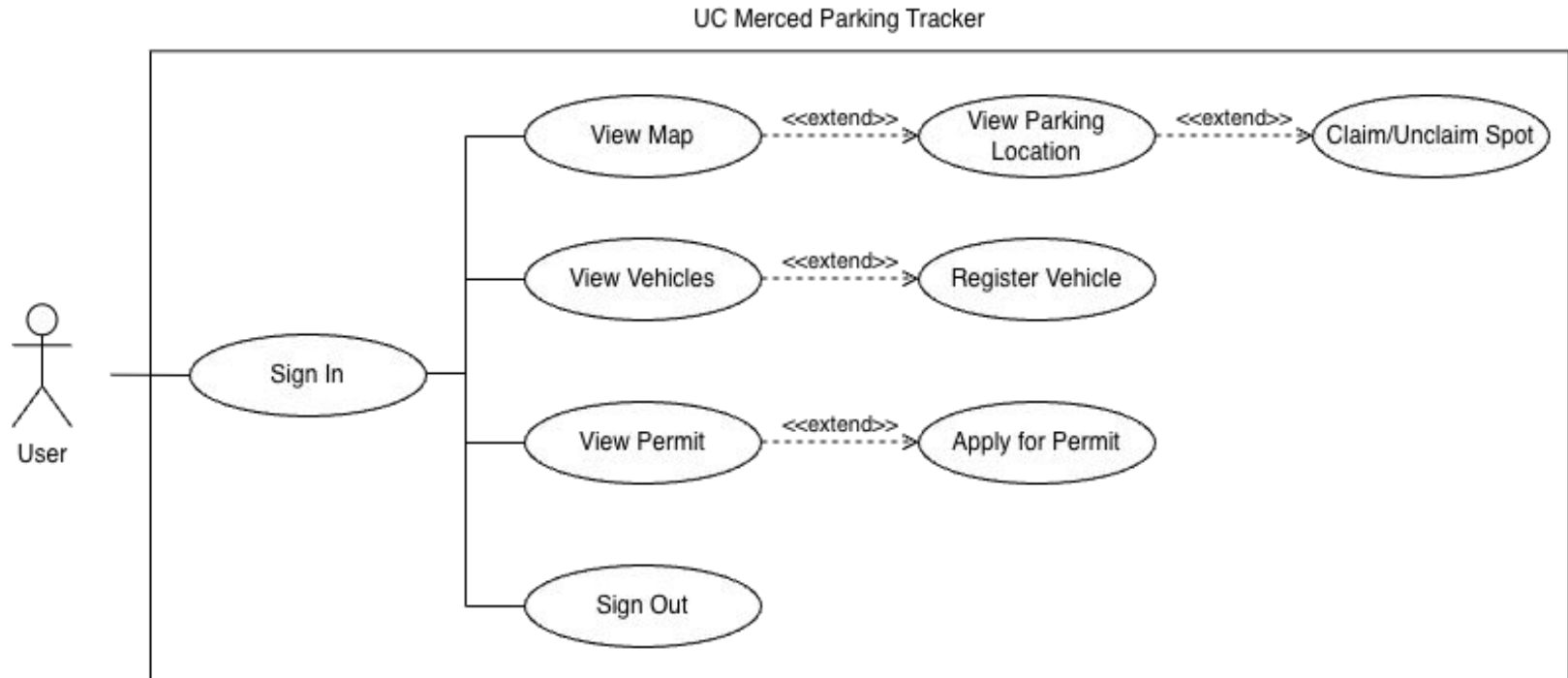
Flask



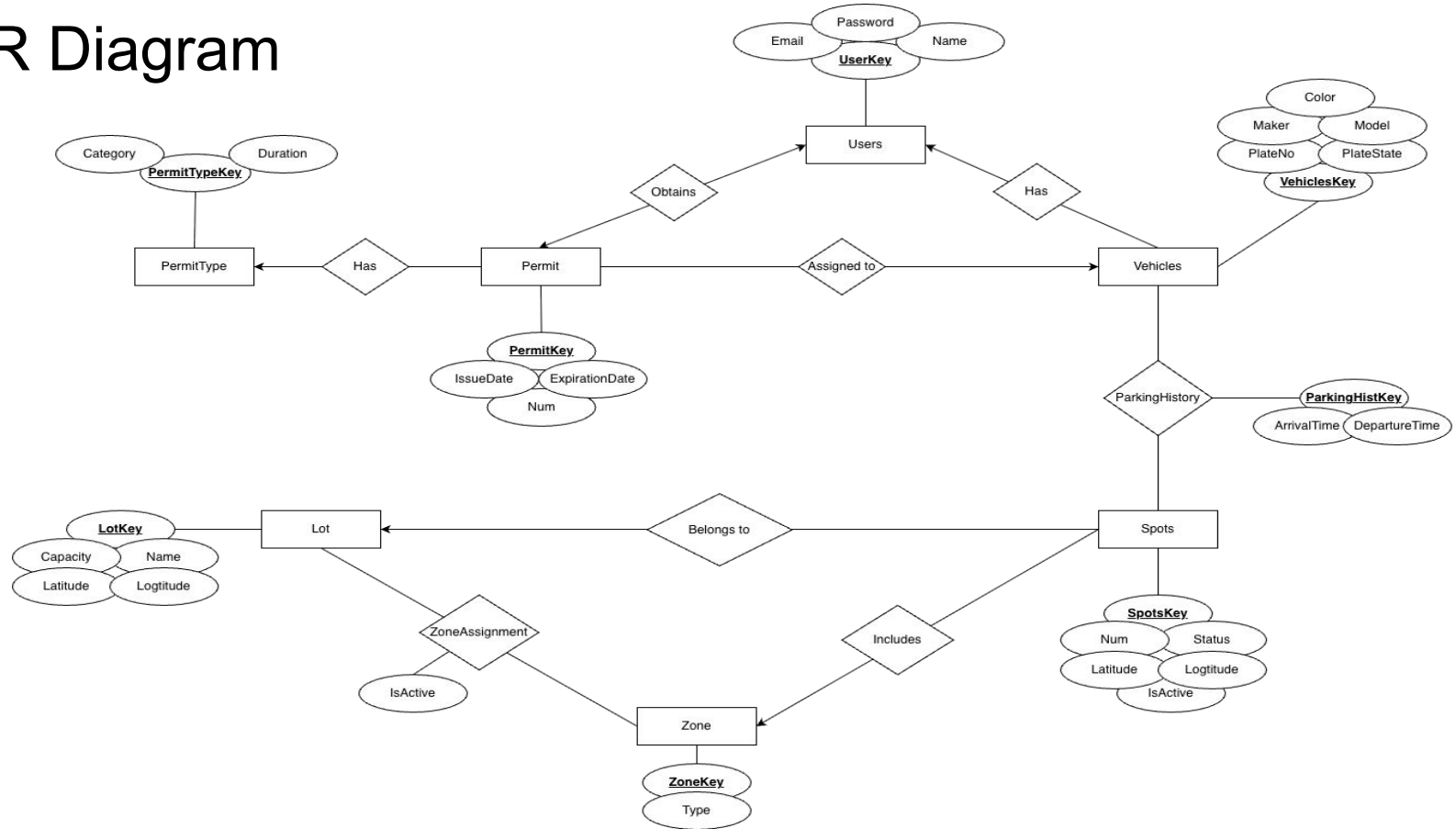
Frontend



Use-Case Diagram



E/R Diagram



Junction Tables

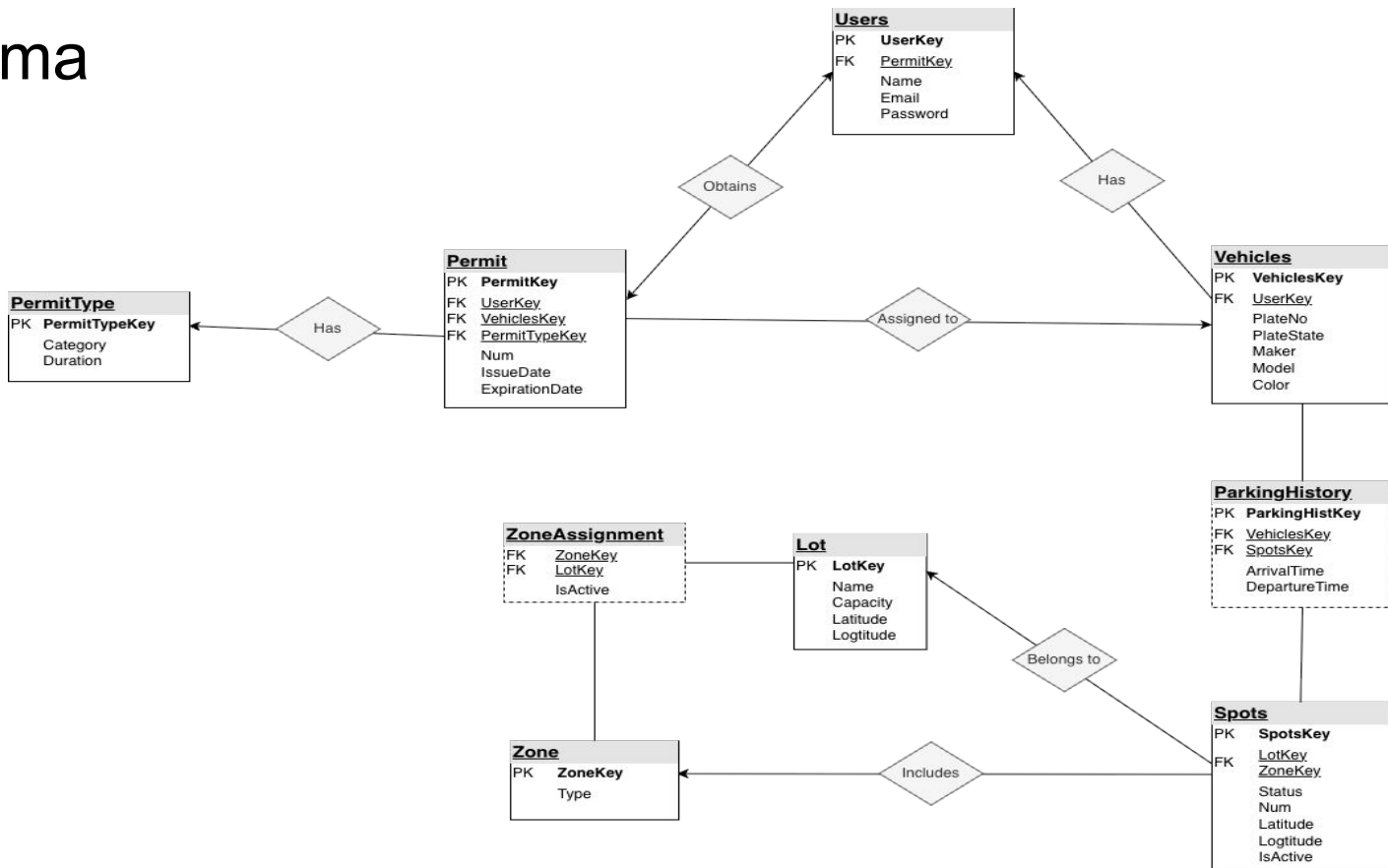
zoneAssignments:

- Dynamically change zones (Gold -> Green) at specified time
- Many lots can be assigned many zones

parkingHistory:

- Tracking where they have parked
- Any vehicles can park in many spots

Schema



Now For Our Demo