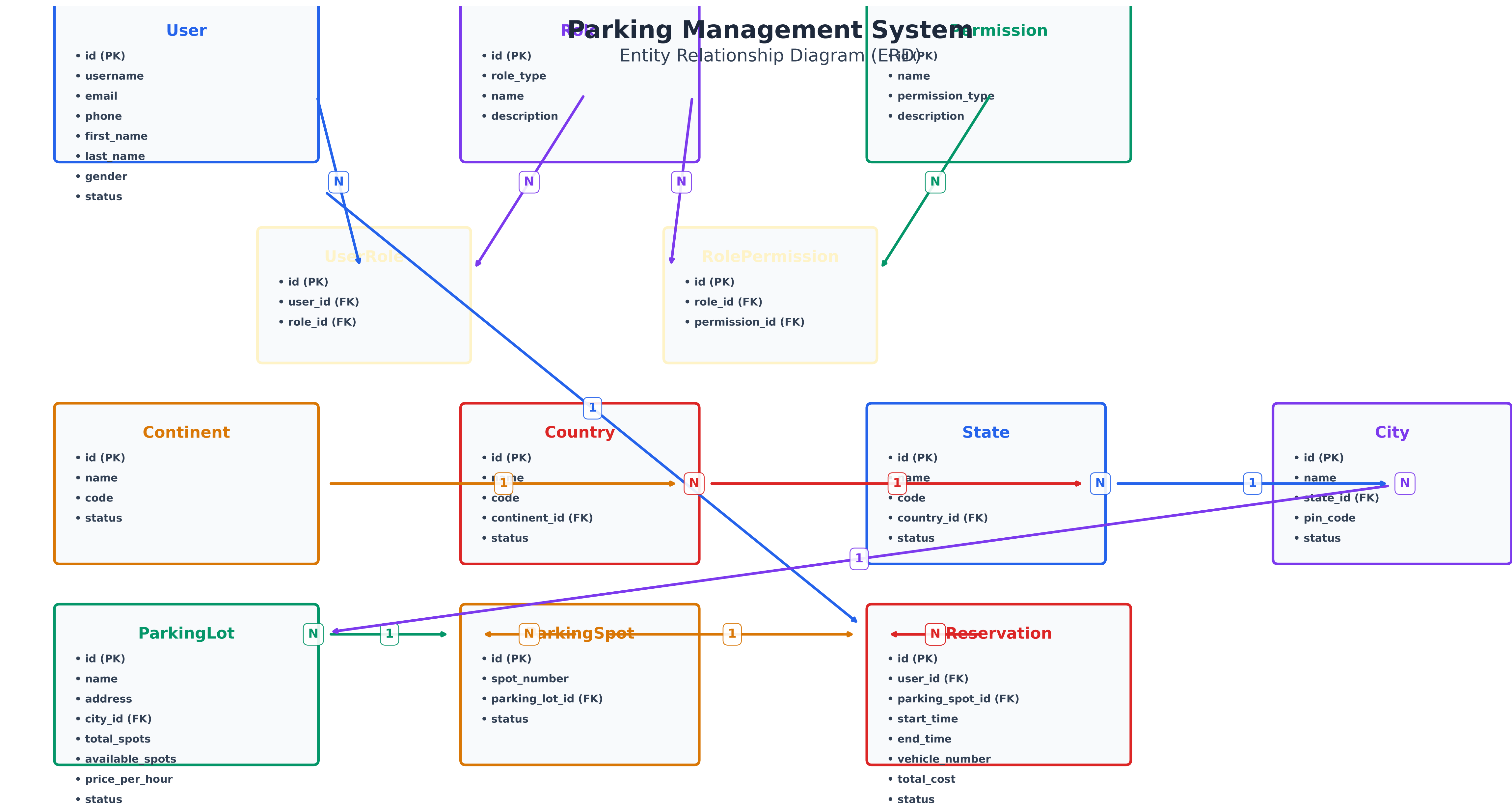


# Parking Management System

Entity Relationship Diagram (ERD)



## Legend

- Entity
- Relationship Table
- 1 = One
- N = Many
- 1:N = One-to-Many
- N:M = Many-to-Many

PK = Primary Key | FK = Foreign Key

- User ↔ Role (N:M): Users can have multiple roles, roles can have multiple users
- Role ↔ Permission (N:M): Roles can have multiple permissions, permissions can be assigned to multiple roles
- User → Reservation (1:N): One user can have many reservations
- ParkingSpot → Reservation (1:N): One spot can have many reservations over time
- ParkingLot → ParkingSpot (1:N): One lot has many parking spots
- City → ParkingLot (1:N): One city can have many parking lots
- Geography Hierarchy (1:N): Continent → Country → State → City