Smart Parking Management System

Actors: Driver, Admin

Driver use cases:
- Register Vehicle
- View Parking status
- Park vehicle
- Exit vehicle

Admin use cases:
- View Analytics
- Maintain Parking Lot
- Configure Parking Floors
- Configure parking slots
- Manage vechile slot Types
- Set Pricing Strategy
- Switch to peak pricing
- Monitor Parking Lot

System / supporting use cases:
- Receive Ticket
- Validate vechile Type
- Pay Parking fee
- Assign slot
- Generate Ticket
- Store Ticket
- Ticket Database
- Record Entry time
- Find Available Slot
- check Slot Compatibility
- Calculate Parking duretion
- Apply Pricing Strategy
- Compute Fee
- Peak Hour Pricing
- Standard Pricing
- Validate Ticket ID
- Release Parking slot
- Check Parking occupancy status
- Generate usage summary
- Check Slot Availability

Relationships (<<include>>):
- View Parking status ..<<include>>..> Pay Parking fee
- Park vehicle ..<<include>>..> Pay Parking fee
- Store Ticket ..<<include>>..> Ticket Database
- Monitor Parking Lot ..<<include>>..> Check Slot Availability