

Smart parking system (phase-1)

Basic detail of team and problem statement

Problem statement title:

Smart parking detection

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Abstract:

- This abstract provides an overview of the key components and benefits of a smart parking system.
- These systems typically incorporate real-time data collection, sensor networks, and mobile applications to provide users with up-to-date information on parking availability.

Objective:

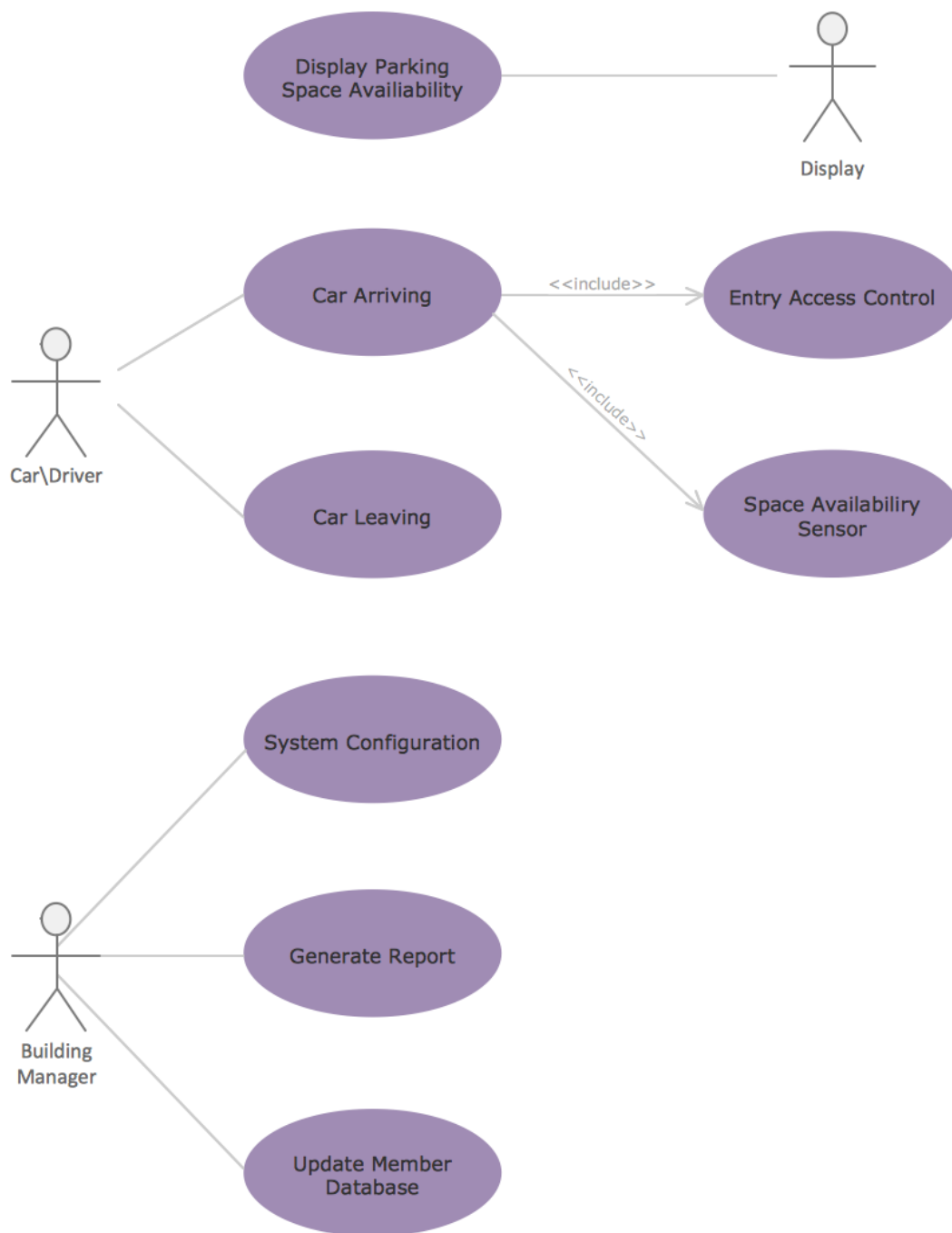
- The objectives of a smart parking system typically revolve around improving parking efficiency, enhancing user experience, and optimizing urban mobility. Here are some common objectives:

- ✓ Enhancing Security: Enhance the safety and security of parking areas through the use of surveillance cameras, well-lit facilities, and emergency response systems.
- ✓ Data Collection and Analysis: Gather parking-related data to gain insights into usage patterns, peak hours, and user preferences, enabling data-driven decision-making for urban planning and management.
- ✓ Accessibility: Ensure that parking facilities are accessible to all, including individuals with disabilities, through the provision of designated accessible spaces and user-friendly interfaces.
- ✓ Cost Efficiency: Improve cost management for parking operators by reducing operational costs, such as

maintenance and enforcement, through automation and smart technologies.

- ✓ Scalability: Design the system to be scalable, allowing for expansion to accommodate growing urban populations and changing parking demands.

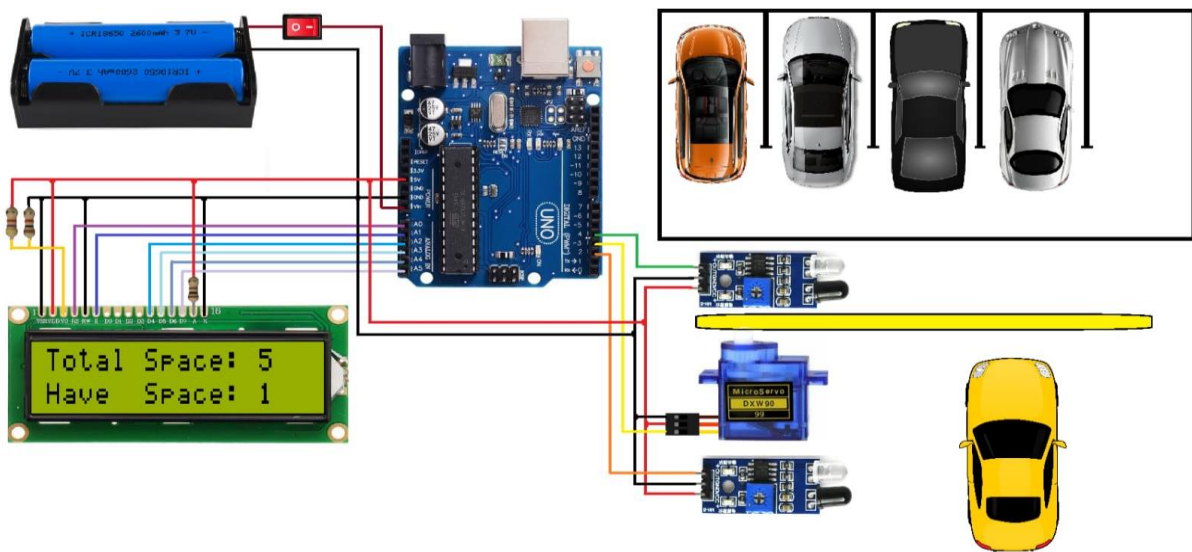
Use case datagram:



Components:

A Smart Parking System consists of the following components:

- 1) Sensors and Detectors: Sensors are used to detect and track the location of vehicles in the parking lot. ...
- 2) Analysis: This is where data from the sensors is analyzed to determine parking space availability.
- 3) Communication Systems



Problem solving statement

Domain-IOT

Domain name-smart parking

Technology:

1.python programming

2.opencv

3.ultrasonic sensor ,etc