

# Company Fleet System

## First Iteration - Analysis

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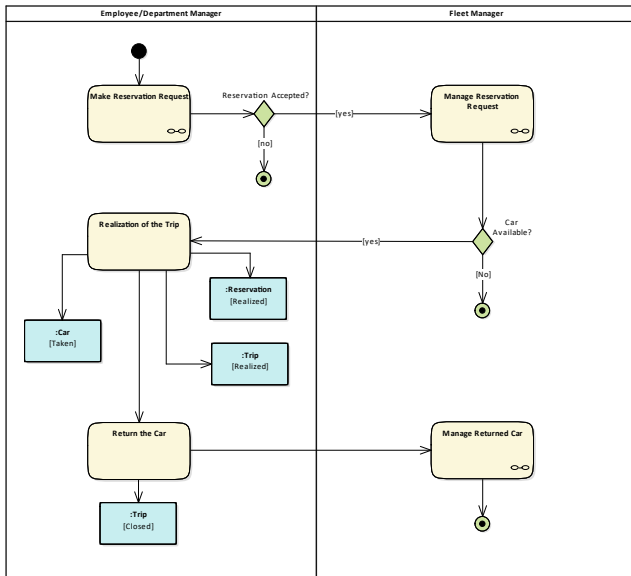
# About

- ▶ Company car reservation system
- ▶ Multiple departments
- ▶ One fleet manager
- ▶ Employees have an ability to reserve a car

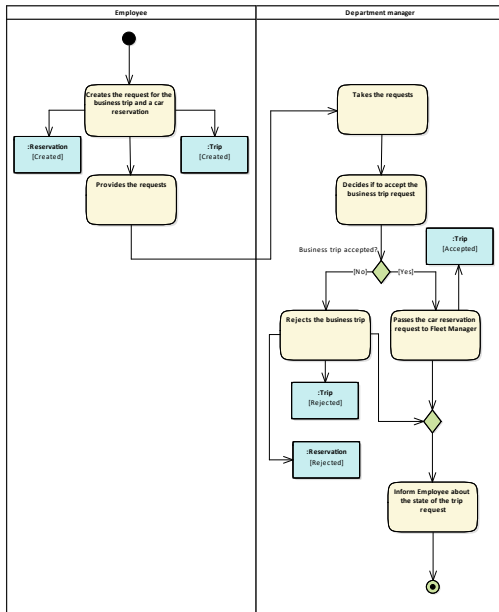
# Motivation

- ▶ Optimize the process of car reservation
- ▶ Better time management
- ▶ Better planning

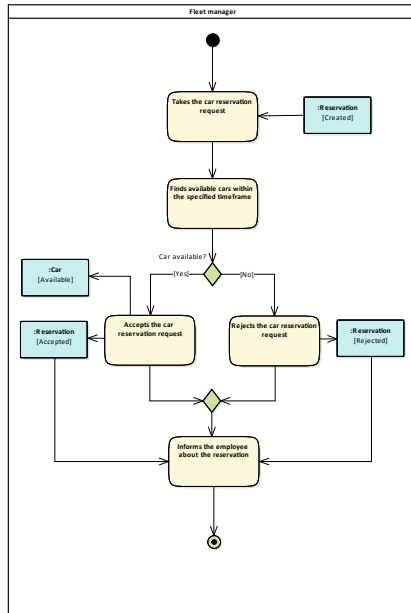
# Reservation Management



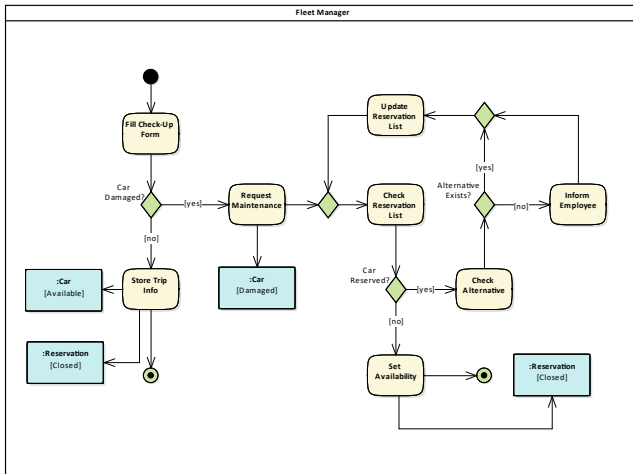
# Reservation Management - Make Reservation Request



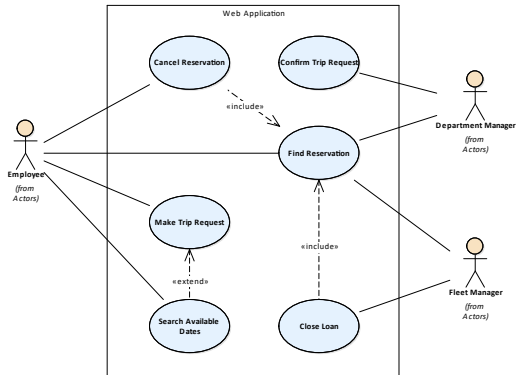
# Reservation Management - Manage Reservation Request



# Reservation Management - Manage Returned Car



# Use Case Model - Reservation Management





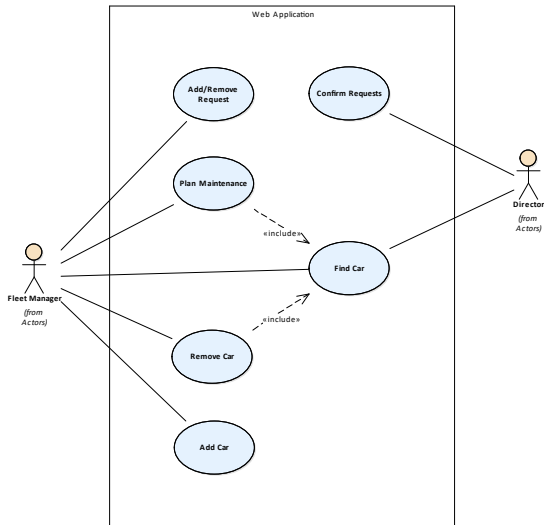
# Make Trip Request - Basic Path

1. The use case starts when the **employee** needs to reserve a car for a business trip. The **employee** opens the web application and starts making the request.
2. The **system** presents the following mandatory fields: business trip description, the start date and the end date.
3. The **employee** fills in the required fields and confirms the reservation by pressing the "send request" button.
4. The **system** sends the request to the department manager.
5. The **system** saves the reservation with the status "created" and adds it to the list of employee's current reservations.
6. The **system** prompts the employee about the successful reservation request creation.

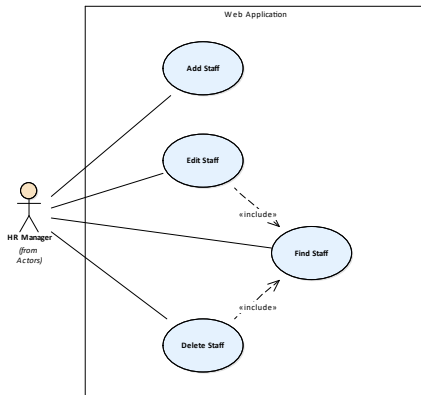
## Make Trip Request - Alternate Path

1. The **system** detects that one of the mandatory fields was not filled.
2. The **system** prompts the user about the missing fields.
3. The scenario transitions to the step 3 of the basic path.

# Use Case Model - Car Management



# Use Case Model - Staff Management



# Functional Requirements

F1: Keep record of car reservations

F2: Keep a record of cars

F3: Keep records of employees

F1.1: Make a car reservation

F2.1: Plan car maintenance

F3.1: Add staff

F1.2: Close loan

F2.2: Add a car

F3.2: Remove staff

F1.3: Cancel reservation

F2.3: Remove car

# Non-Functional Requirements

NF1: A website

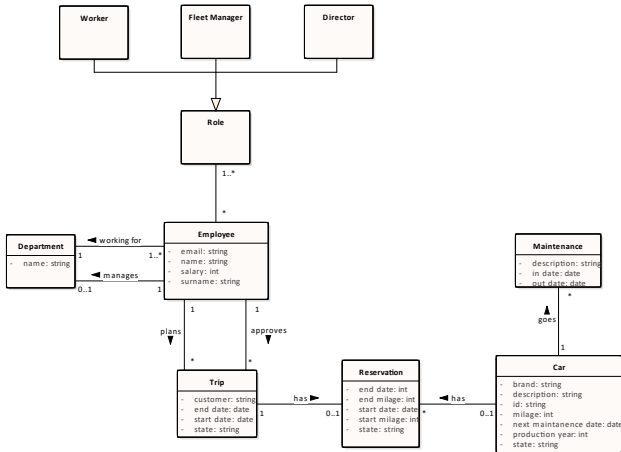
NF4: Data backup

NF2: Site availability

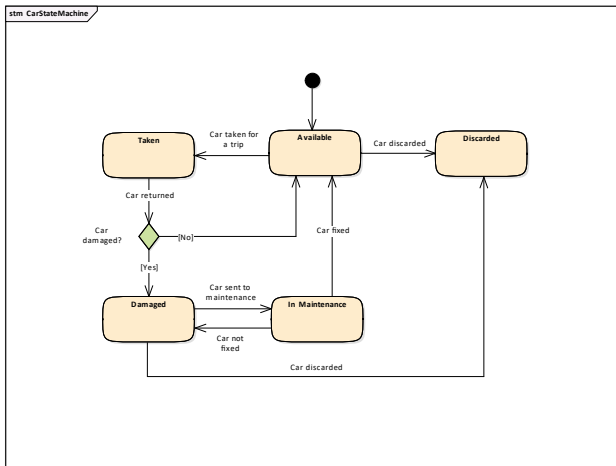
NF5: Website security

NF3: Ease of access and  
comfort of use

# Domain Model - Class Diagram

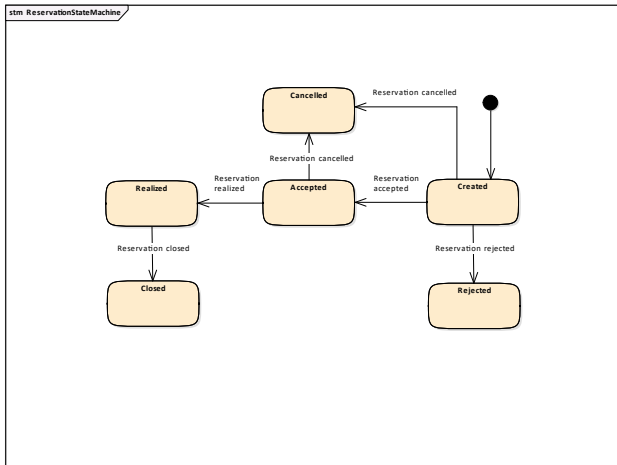


# Domain Model - Car State Machine





# Domain Model - Reservation State Machine



# Domain Model - Trip State Machine

