מטלה 3 - הנדסת תוכנה

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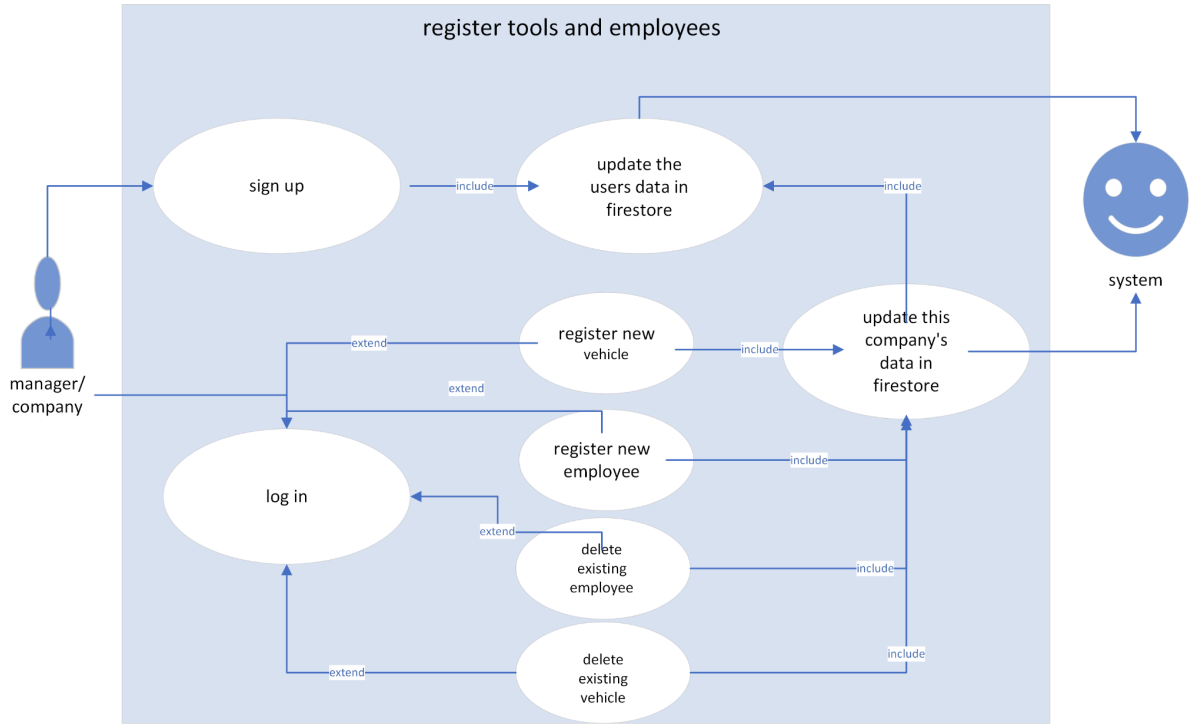
חלק א'- use-case

use-cases and users-stories

1. some manager

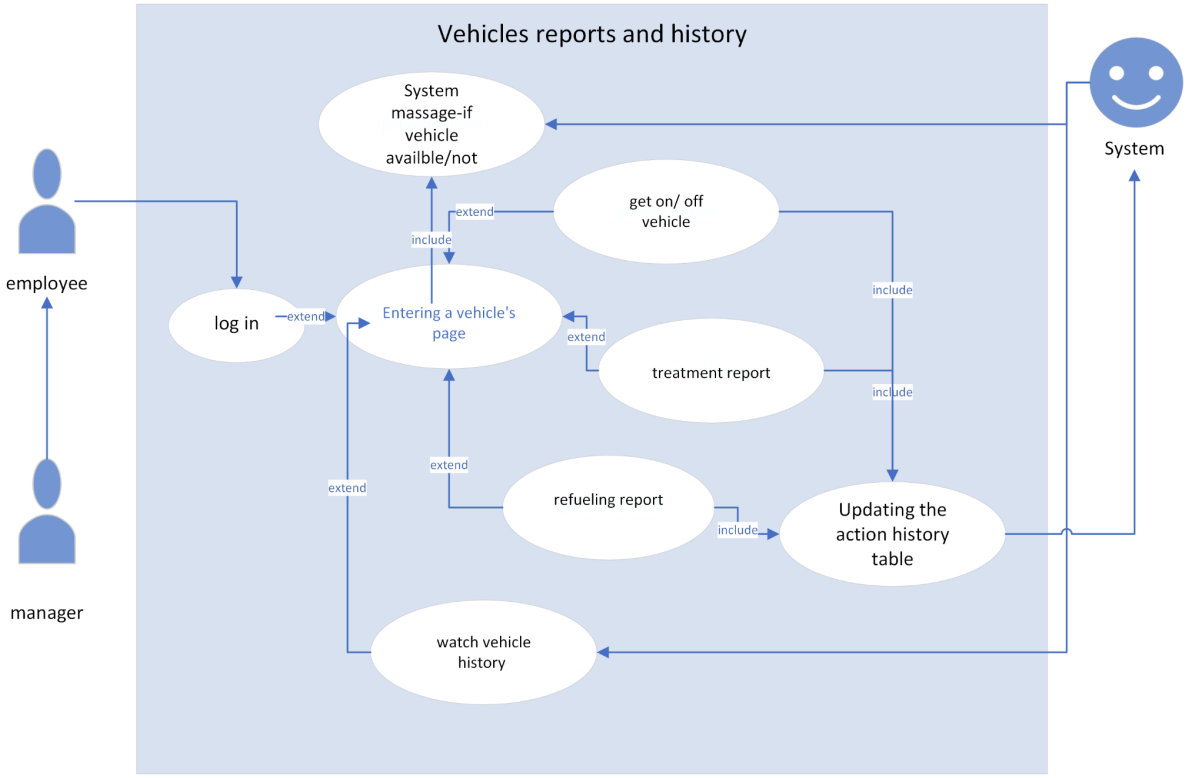
   As a **manager in the company** I want to **register my employees and tools to the system** so that **The employees will be able to report their activity and I will be able to monitor the activity on the work area and the status of the tools.**

   Use case:



2. Employee in the company
   As a **forklift driver** I would like to **have the following four options: start the vehicle's engine, report on a treatment, report on refueling and view the history of the vehicle** so that **the manager and the rest of the workers will be updated.**

   Use case:



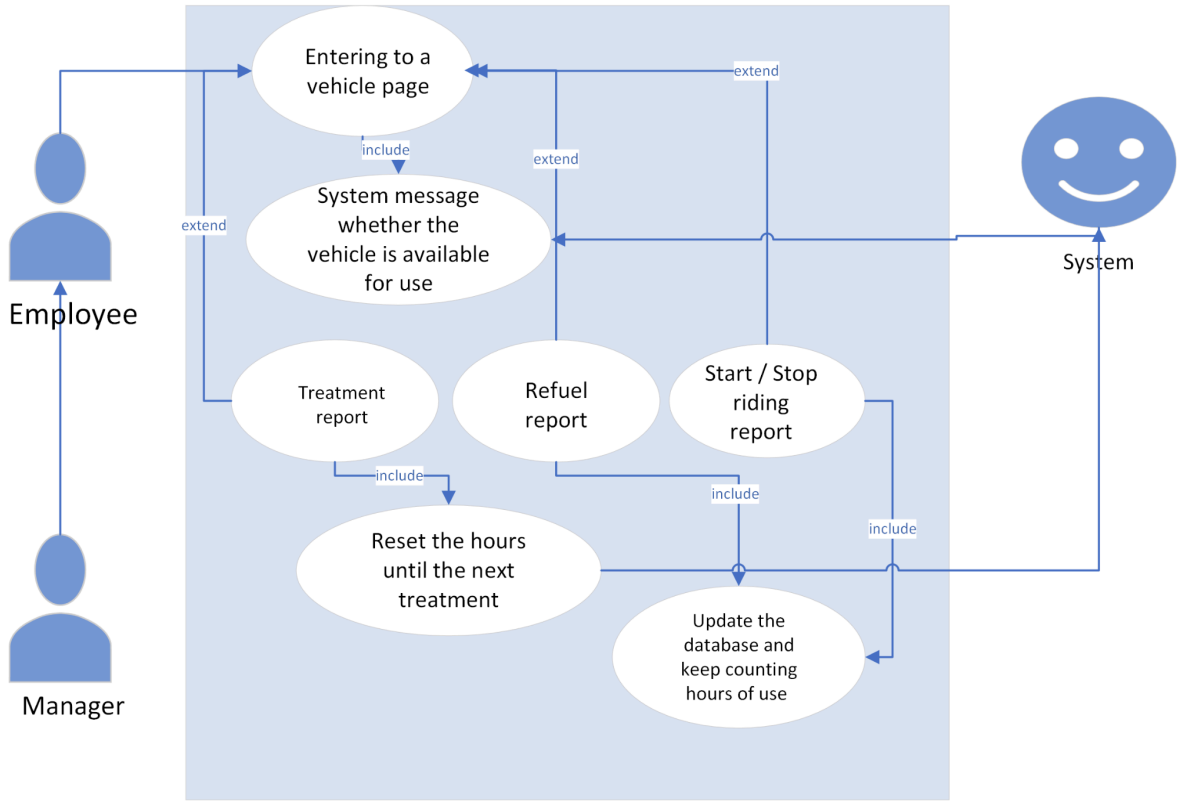
3. Employee in the company

As a **driver on a forklift** I want to **report getting on and off the vehicle** so that **the manager and the rest of the employees will know when the vehicle will need engine treatment.**

and

The system
As a **system**, we would like to **ensure a relevant update when a vehicle is available for use or needs treatment** so that **an employee knows if he can start work or if treatment is required for the vehicle.**

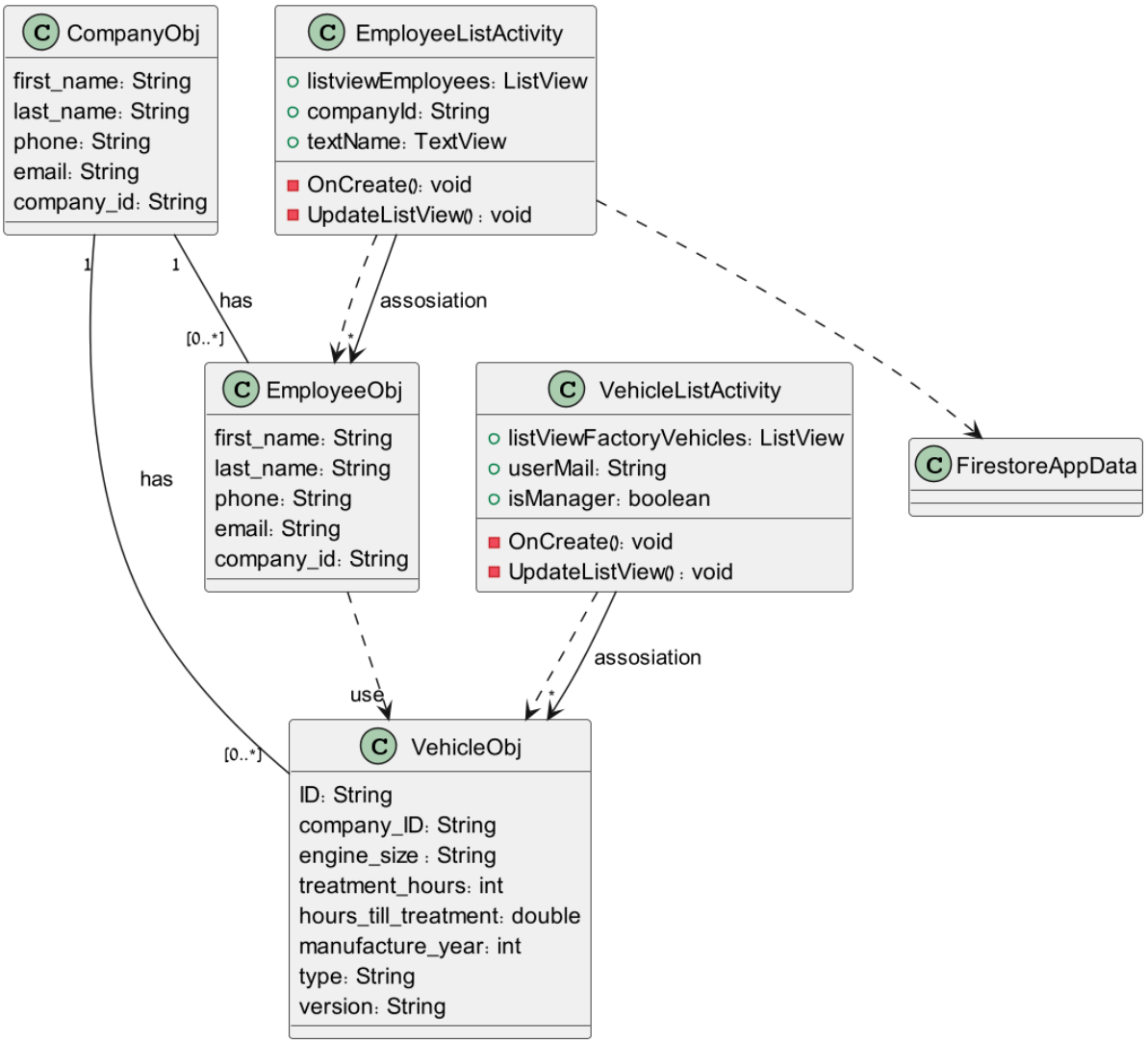
sub use-case for reports



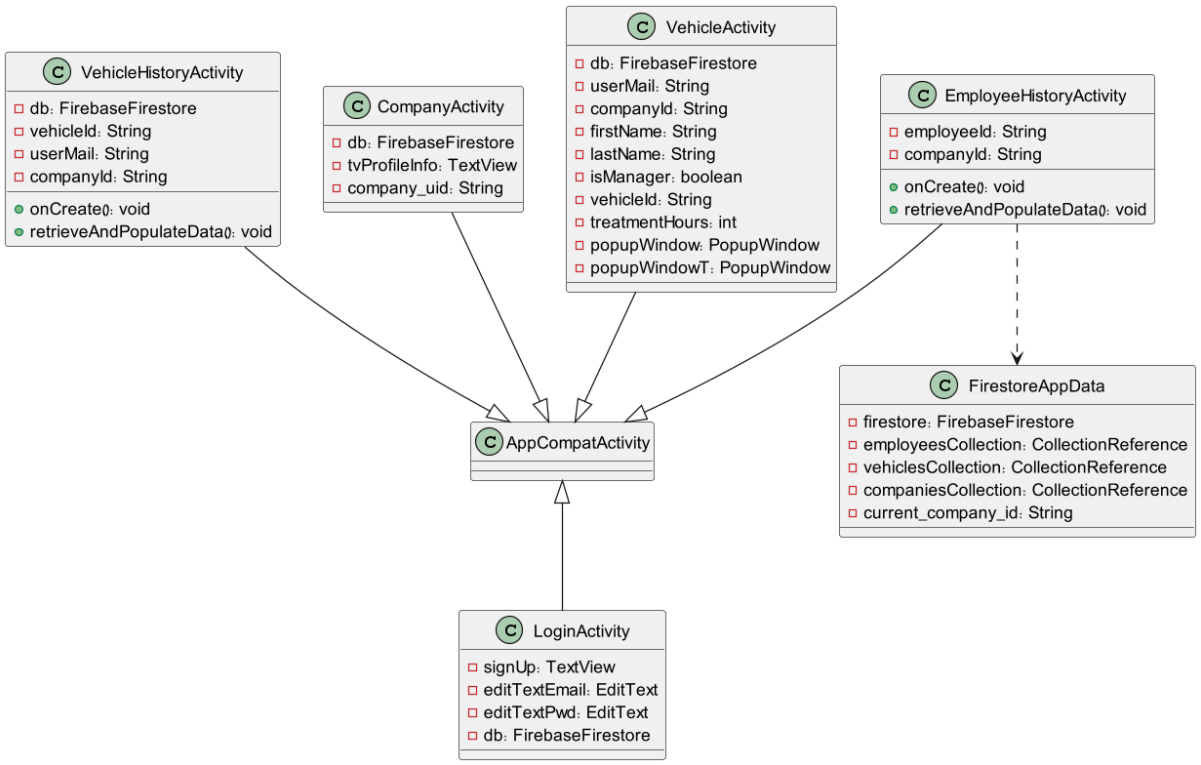
class diagram - חלק ב'

The system is divided into several diagrams:

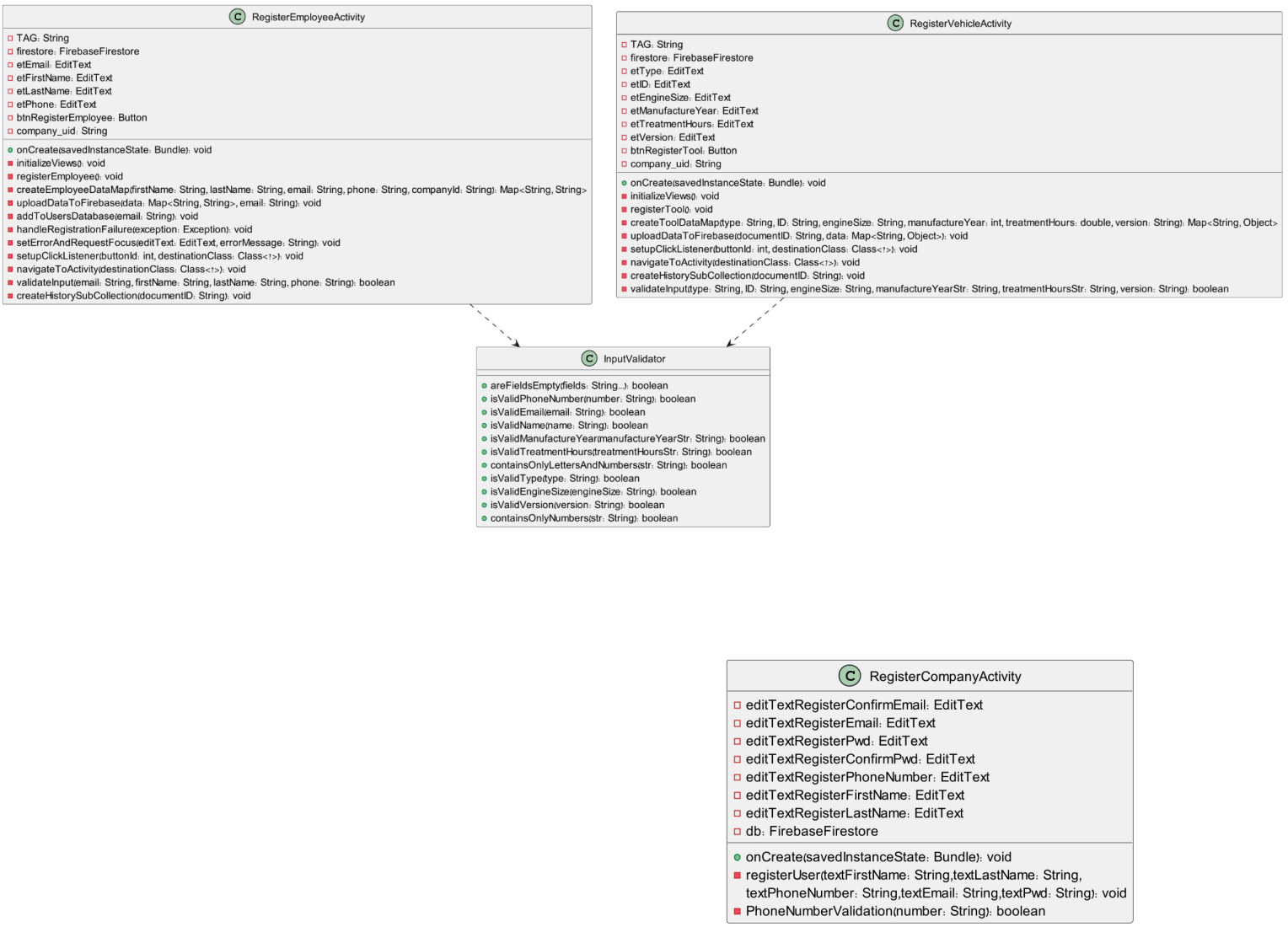
1. The object classes and classes responsible for displaying the objects in the application:



2. Classes responsible for additional operations that happen behind the scenes of the system:

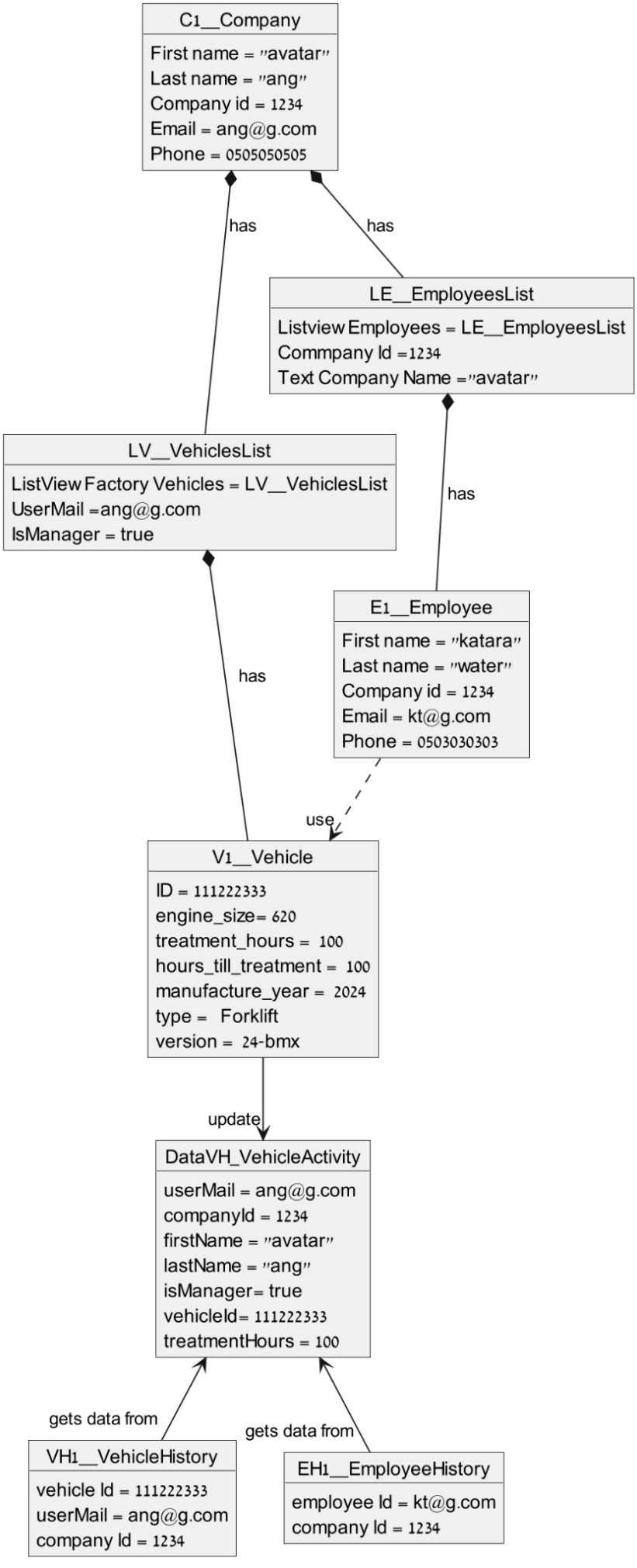


3. Classes responsible for registering users to the system



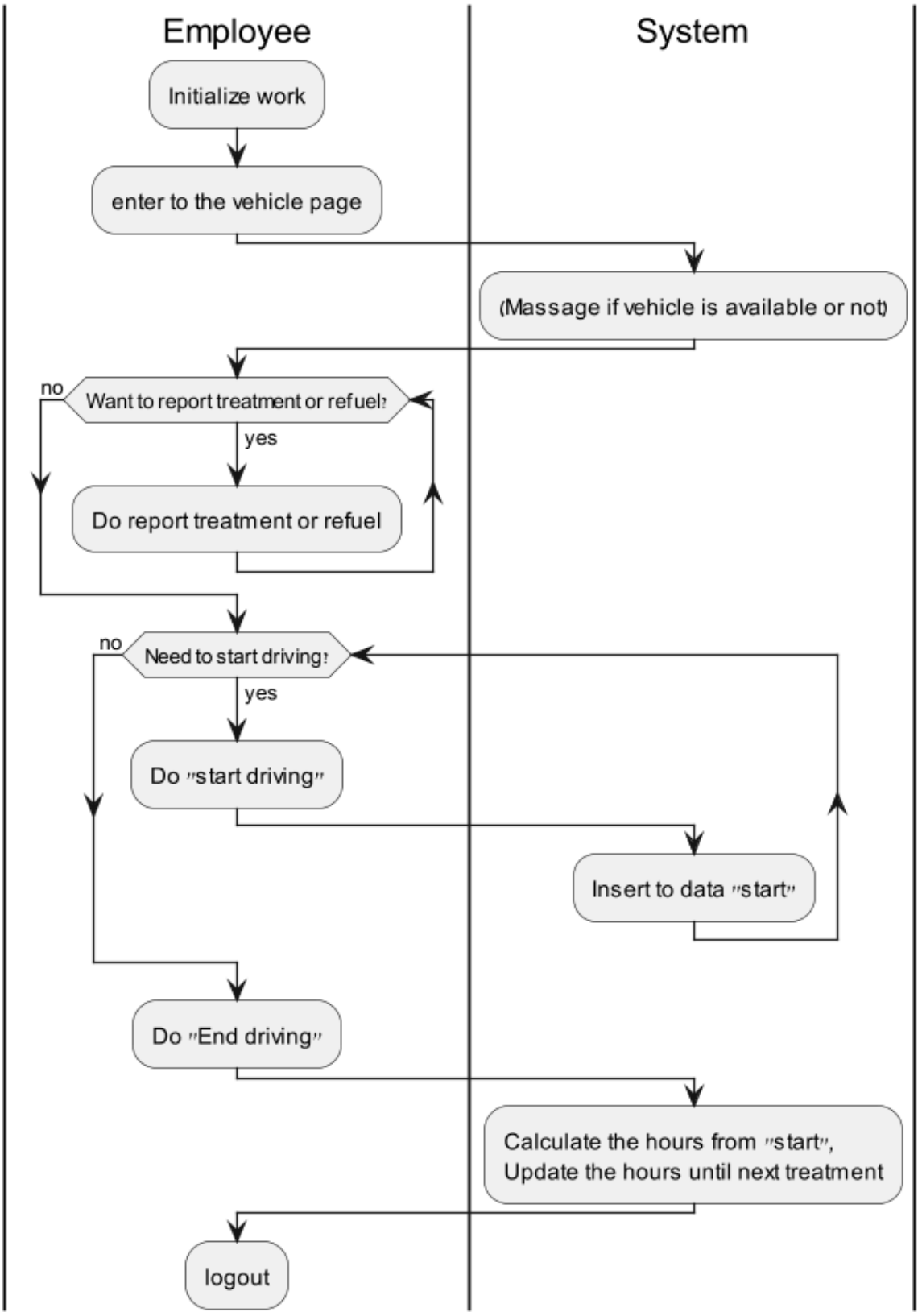
חלק ג' -
Object diagram

בחרנו במימוש פשוט שיאפשר להבין איך נראית המערכת הכללית שלנו :



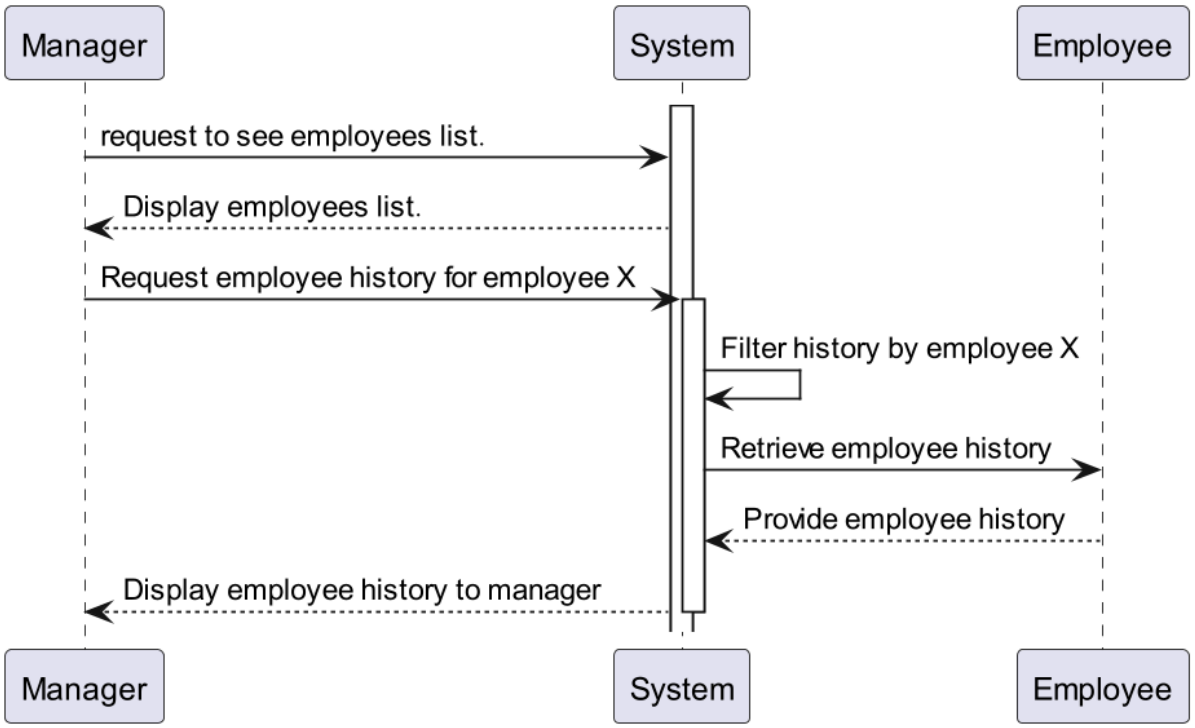
Activity diagram - חלק ד'

בחרנו בפעולת "עליה לכלי"



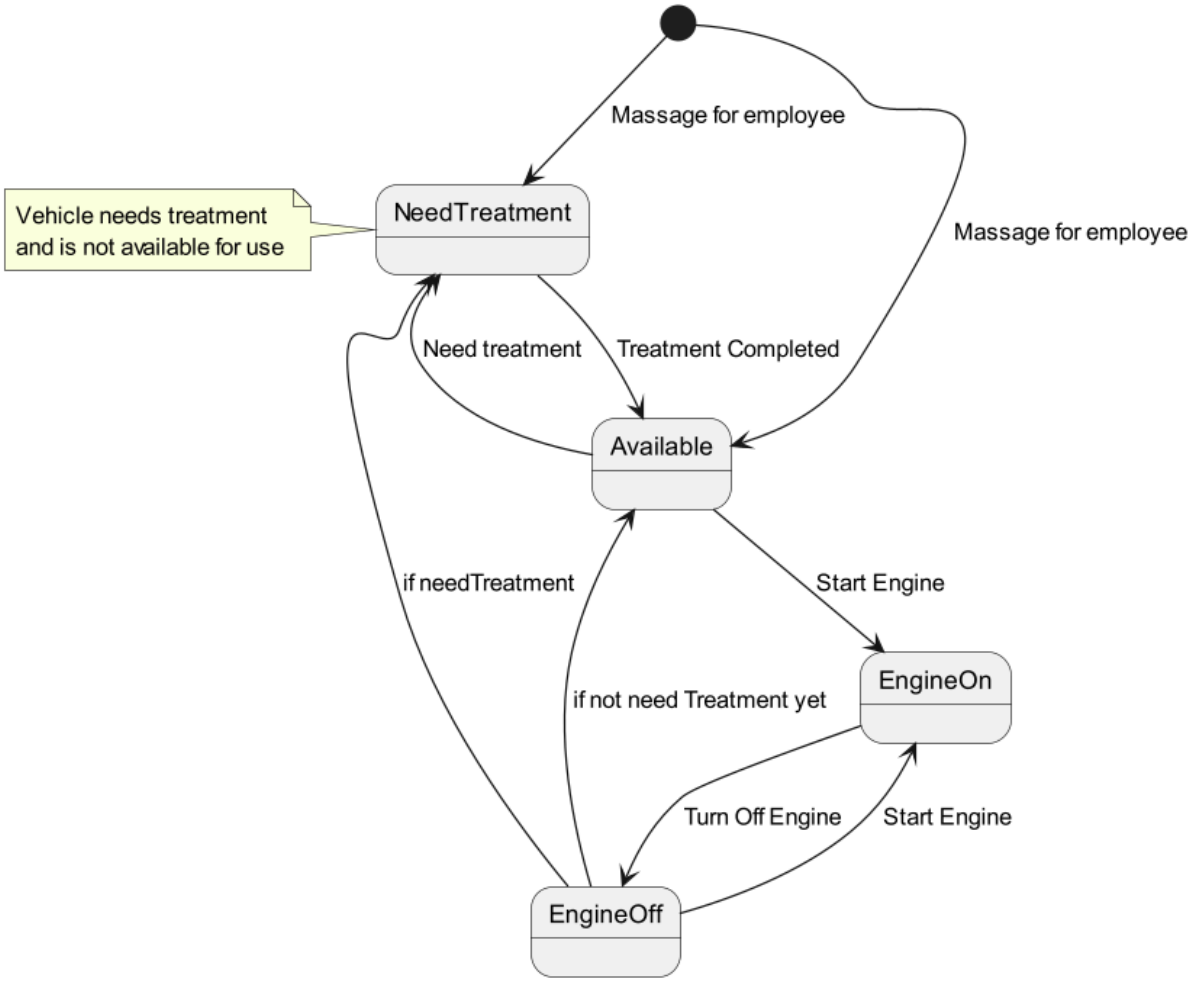
חלק ה' - Sequence diagram

מנהל מבקש לראות היסטוריית עובד:

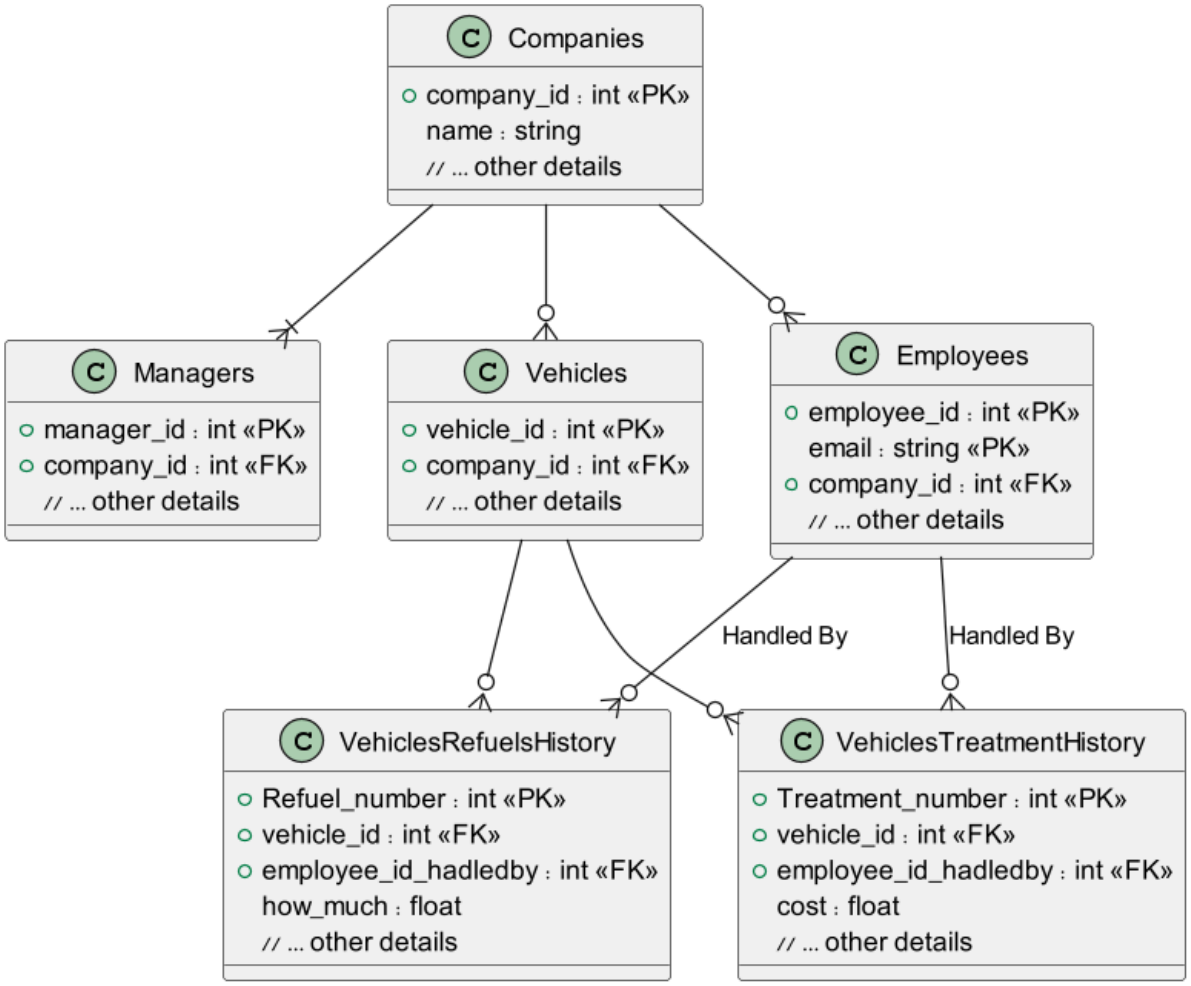


State machine diagram - חלק ו'

Vehicle object: all the state which this object has.
there is no end-point because this object is always monitored…



חלק ז' - ERD


Companies
company_id : int «PK»
name : string
// ... other details
Managers
manager_id : int «PK»
company_id : int «FK»
// ... other details
Vehicles
vehicle_id : int «PK»
company_id : int «FK»
// ... other details
Employees
employee_id : int «PK»
email : string «PK»
company_id : int «FK»
// ... other details
Handled By
Handled By
VehiclesRefuelsHistory
Refuel_number : int «PK»
vehicle_id : int «FK»
employee_id_hadledby : int «FK»
how_much : float
// ... other details
VehiclesTreatmentHistory
Treatment_number : int «PK»
vehicle_id : int «FK»
employee_id_hadledby : int «FK»
cost : float
// ... other details