Cairo University  
Faculty of Computers and Artificial Intelligent

**CS251**

**Software Engineering I**

Parking Garage

Software Design

Team Names

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Month & Year

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# Team

|  |  |  |  |
| --- | --- | --- | --- |
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# Document Purpose and Audience

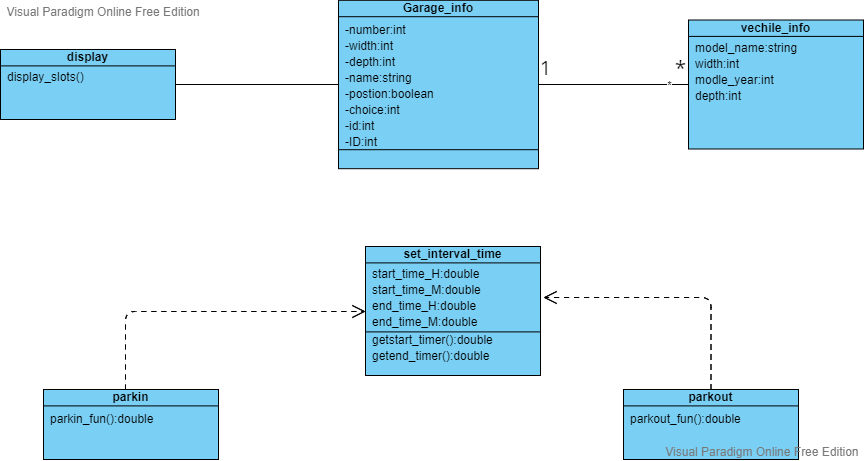
purpose create system for owner of garage ,by the system owner can easy reserve a slot for cars;

Audience : owners of garages

document : simpley it explain what are steps of building projects like usecse its represent who will use the system and functions will be build in the project

# System Models

## I. Class diagrams



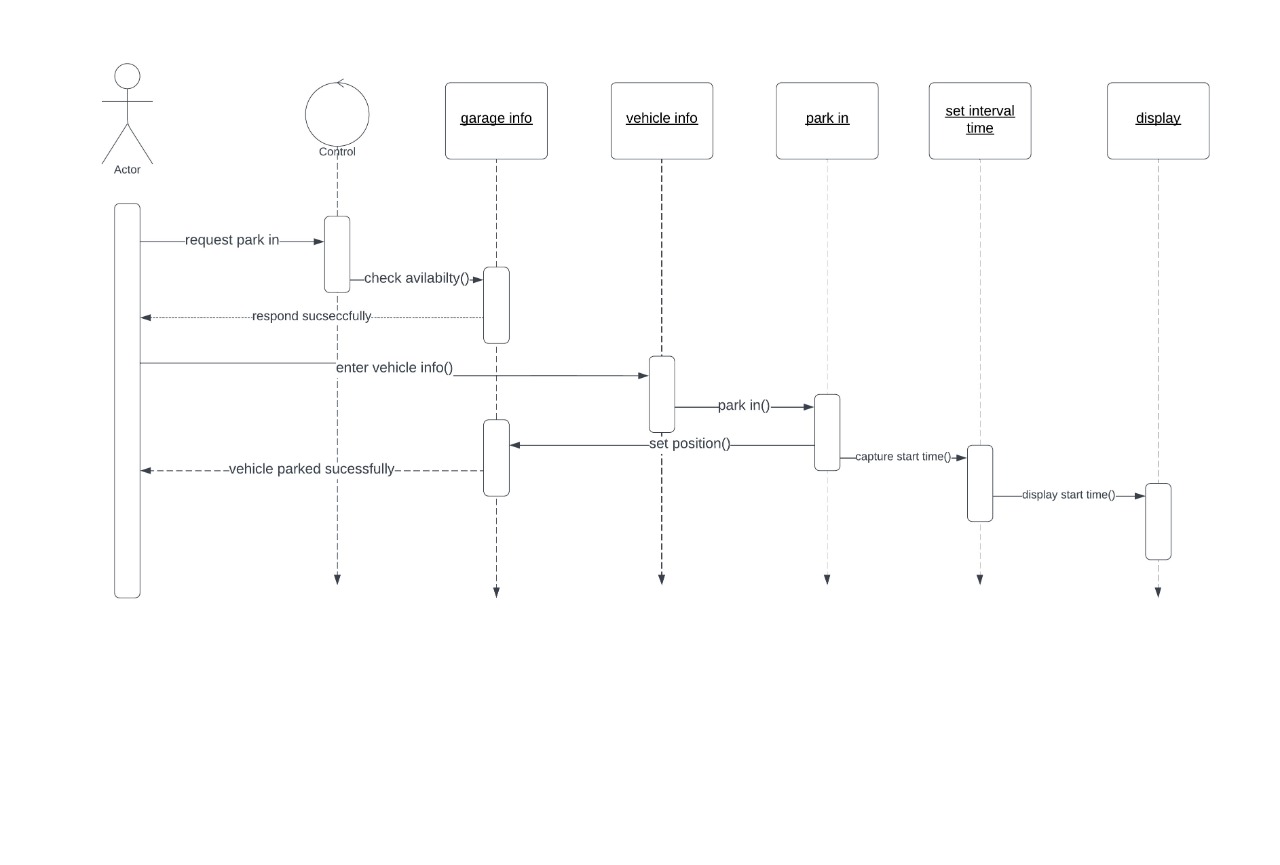
|  |  |  |
| --- | --- | --- |
| **Class ID** | **Class Name** | **Description & Responsibility** |
| 1 | Garage\_info | Get number of total ,available and unavailable slots |
| 2 | Parking | Get area of slot and check availability of slot |
| 3 | Vehicle\_info | Info of vehicle and parking functions |
| 4 | Park out | Calculate fees and total income |
| 5 | Set\_interval\_time | Get duration , set arrival time , set time out and set the period details |
| 6 | Display | Get info from classes and display it |

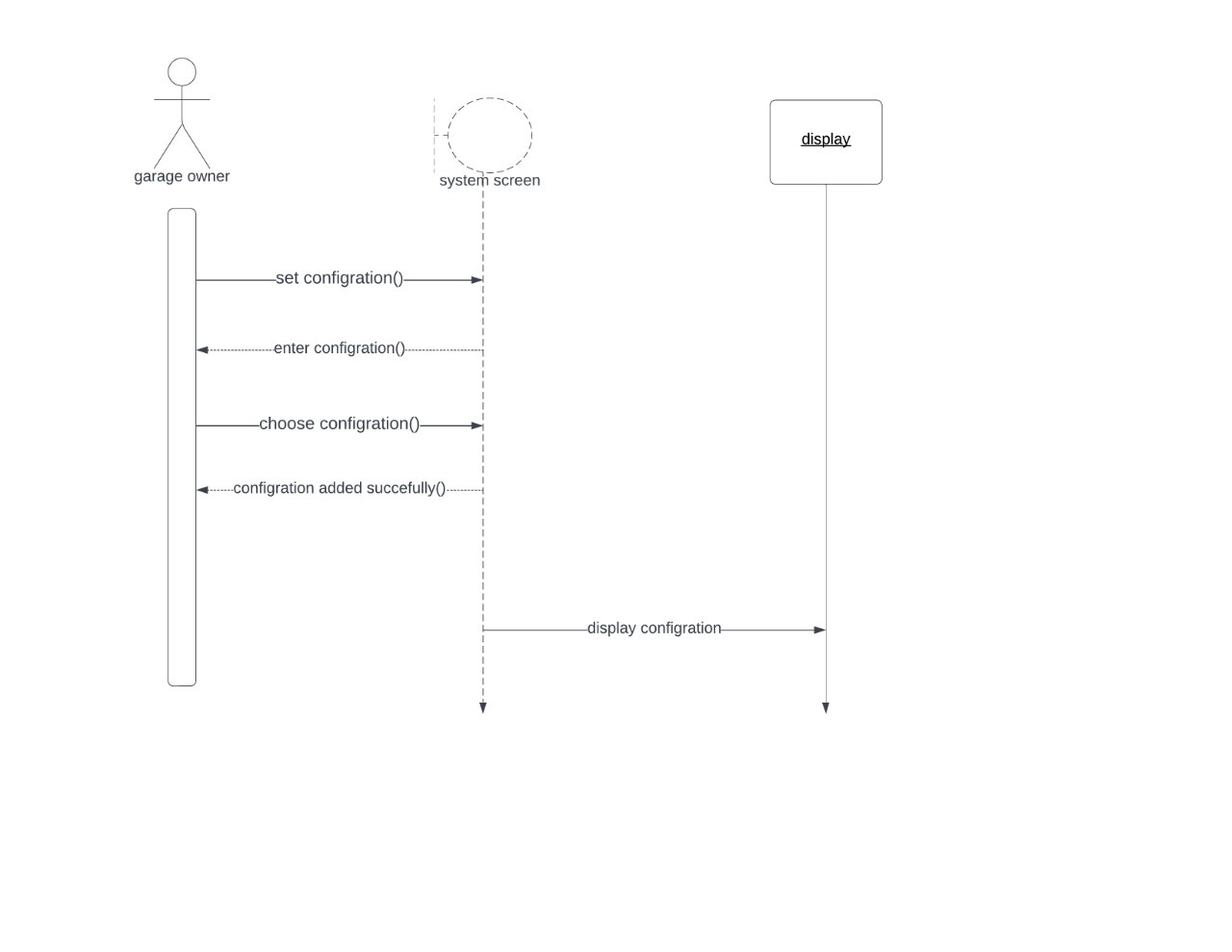
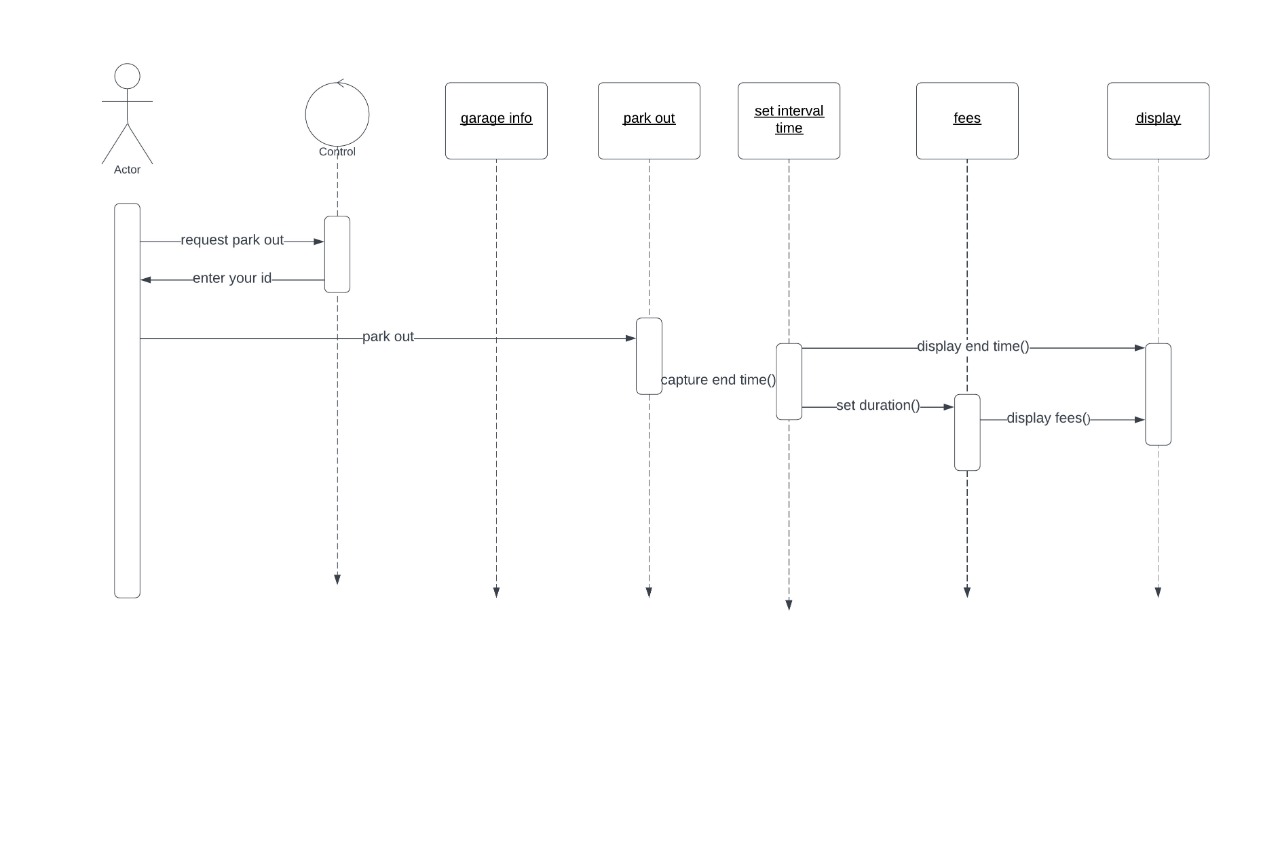
### Important Algorithm

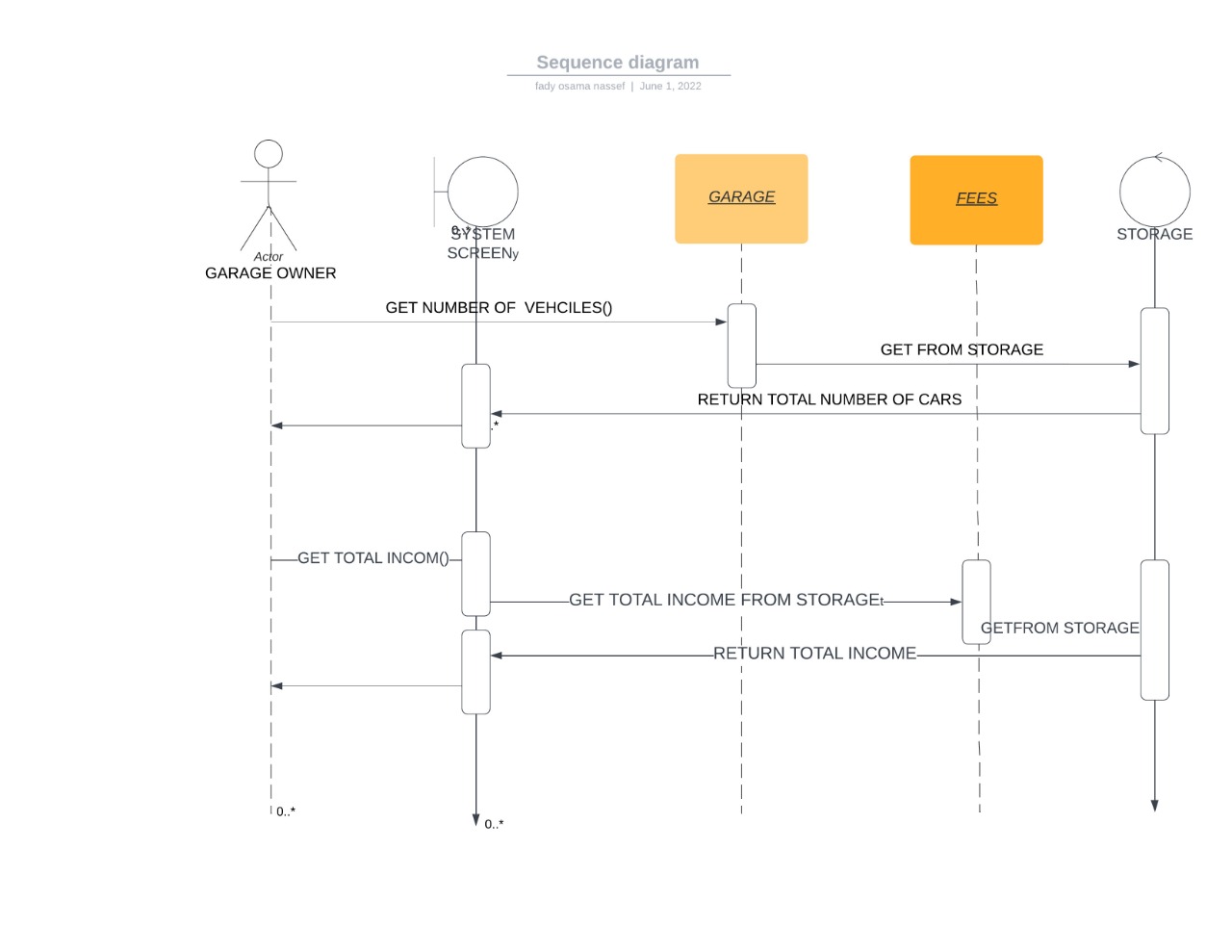
* **If any method in a class is implementing an algorithm (complex enough), then you should describe it here.**

## 

## II. Sequence diagrams







### 

### Class - Sequence Usage Table

| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| E.g. Employee | 1, 3, 5 (means Seq Ids 1, 3, 5 used Employee class) | Save, GetData |
|  |  |  |

# 

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Sequence diagram | *Mohamed Youssef , fady osama* |
| Class diagram | *Mohamed tarek* |