



CourseName: Software Engineering I

Course Code: CS251

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ProjectName: Automated Garage System

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CS251: Phase 2 – ISGSs

Project: <Automated Garage System>

Software Design Specification

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Team

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Document Purpose and Audience

- This document will talk about the design of the system (Automated Garage System) and subsystems included describing (UML Diagram of Classes - Sequence Diagram - Entity Relation Diagram - In Addition To Adding Basics Ideas About Gui Being Used In System) .
- Audience : CEO - Project Manager - Developers - Analyst .



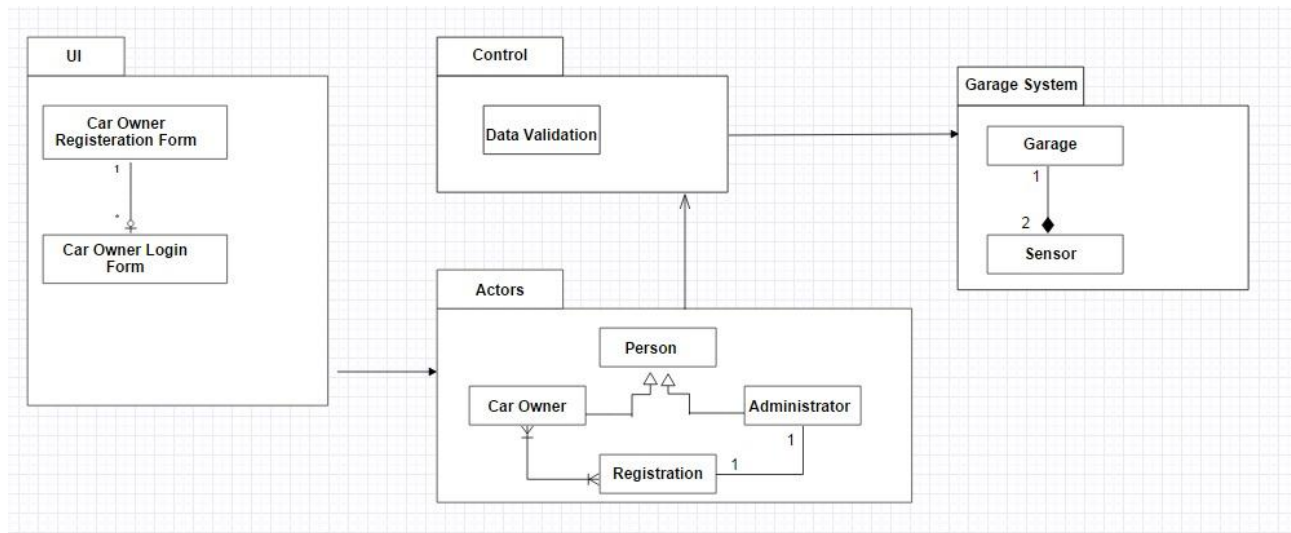
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System Models

System Decomposition



This system decomposition is consist of 4 packages , the first one is the UI package which include the two classes : car owner regestration form and car owner login form where the relation between two classes is one to many and the second package is the actor package which consist of 4 classes { Car Owner , Administrator which in inherits from Person class and the registration } and the relation between administrator class and the administrator class is one to one and the relation between car owner class and the registration class is many to many , the third package is the control which contain data validation class and the fourth package is the Garage System which include w classes Garage and Sensor where there is a composition relation between these classes and we have one garage and two sensors in our system .

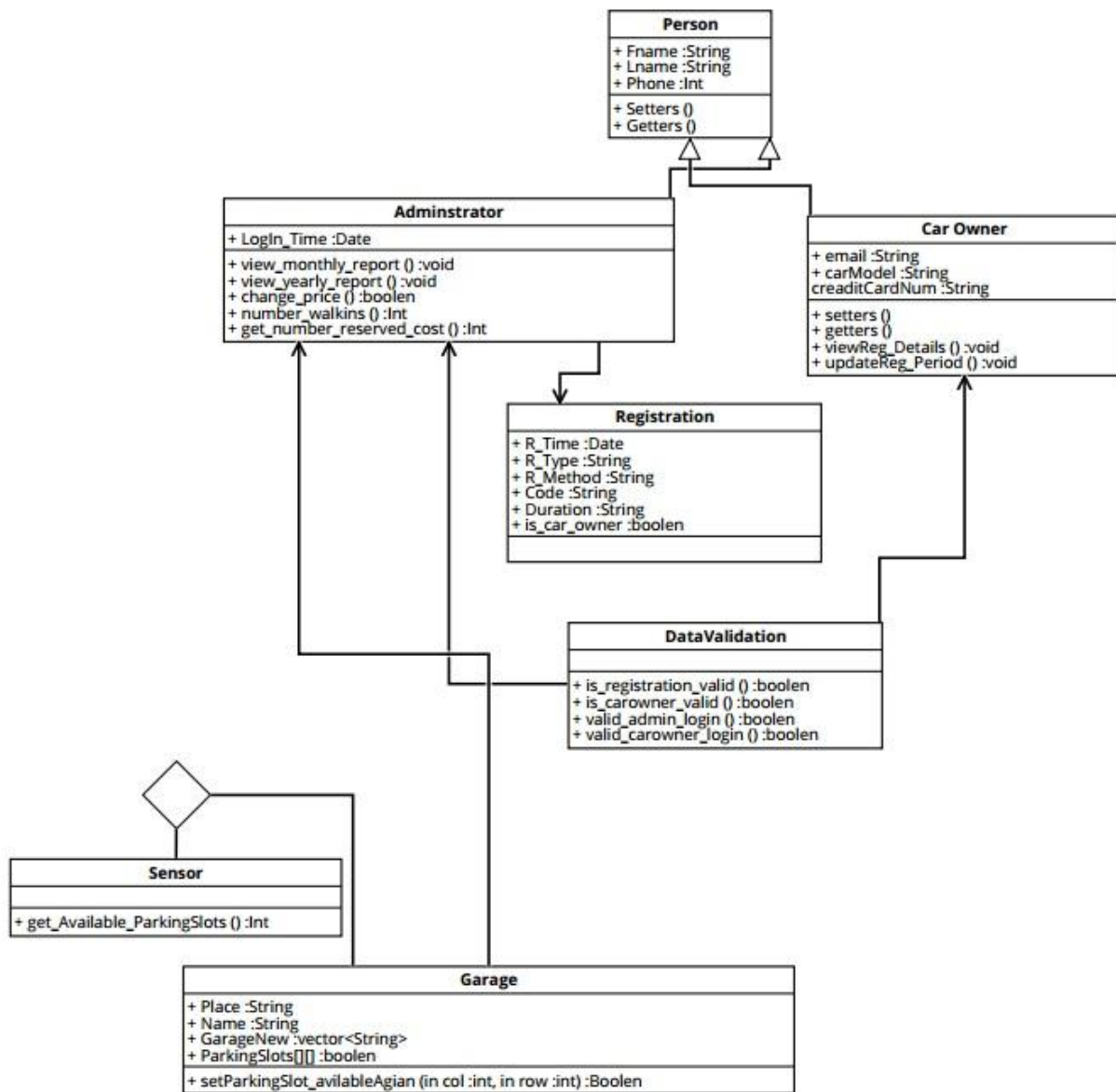


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Class diagrams :





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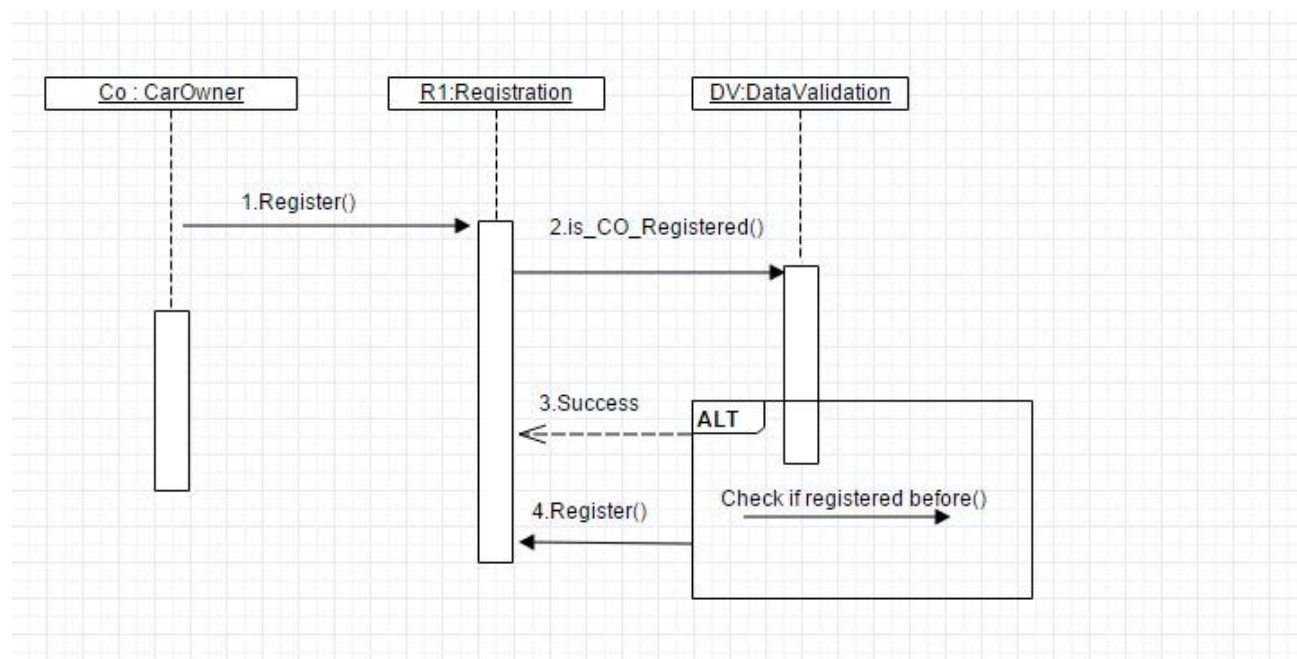
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Class ID	Class Name	Subsystem ID	Description
1	Car Owner Registration Form	1	Form For Car Owner To Register
2	Car Owner Login Form	1	Form For Car Owner To Login
3	Data Validation	2	Class To Check Values On Data Base.
5	Person	3	Parent Class Of Car Owner & Administrator
6	Administrator	3	Class Which Include Administrator Function
7	Car Owner	3	Class Which Include Car Owner Function
8	Garage	4	Class Describe System Garage Building Componets And Role .
9	Sensor	4	Class Which Is The Main Security Componet In The System

Sequence diagrams

Sequence Diagram ID : 1



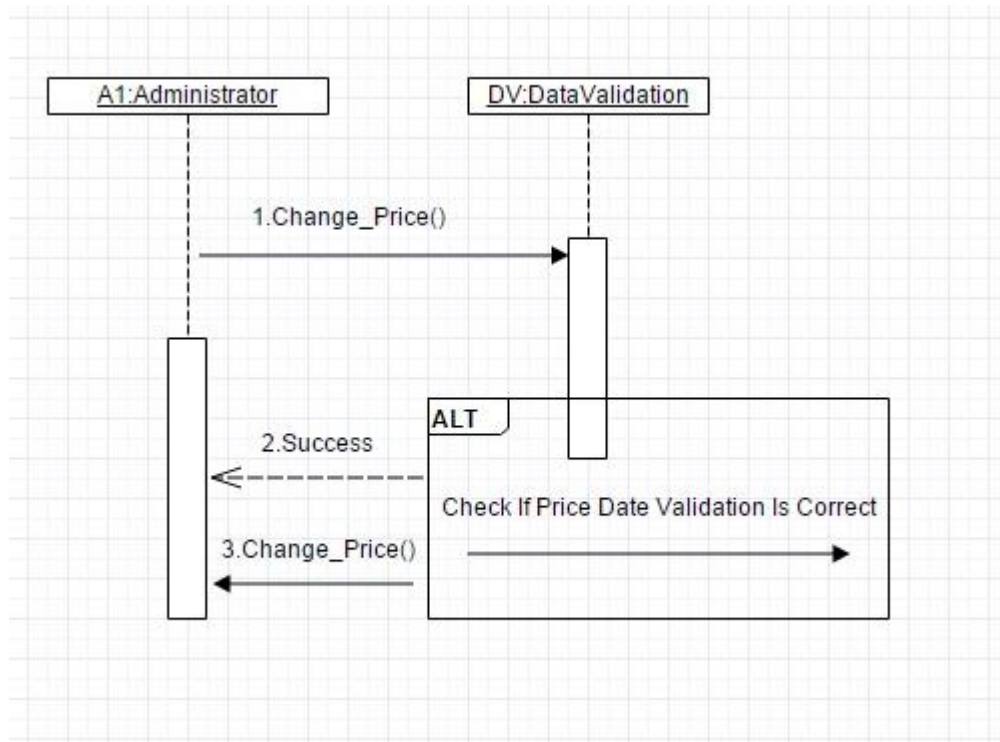


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Sequence Diagram ID : 2



Class - Sequence Usage

Class Name	Sequence Diagrams	Overall used methods
Regitstartion	1	Is_Car_Owner_Registered ,
Administration	2	CheckDBPrice , Change_Price



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User Interface Design

Screen 1 – Car Owner Registration Screen

Car Onwner Registration Form

Please Fill The Form

Credit Card Number

First Name

Last Name

Password

Phone

Email

Address

Car Model

Submit Form



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Screen 2 – Car Owner Login Screen

Car Onwner Login Screen

Fill The Form To Login

Email

Password

Login

Ownership Report

Item	Owners
User Interface , Class Uml	Mohammed Shaker
System Decomposition , Sequence Diagram	Mohammed Boghdady
Class Uml , User Interface	Mohammed Ahmed Hamdy
System Decomposition , Sequence Diagram	Mohammed Gaber