Cairo University Faculty of Computers and Artificial Intelligent

CS251

Software Engineering I

Garage System

Software Requirements Specifications (SRS)

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CS251: Phase 1 - <SURVIVERS>

Software Design Specification

Team

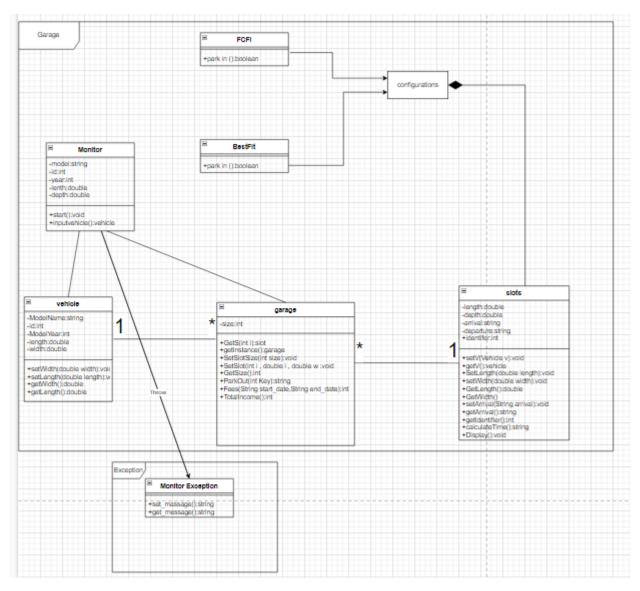
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Document Purpose and Audience

- This document tells us the class diagram and sequence diagram of this program.
- Audience → Customers who want to build a garage system.

System Models

I. Class diagrams





Class ID	Class Name	Description & Responsibility
1	Vehicle	set vehicle's information
2	Owner	choose configuration set number of slots
3	Receptionist	Park in Park out
4	Slot	Set slot's depth and width
5	Calc time	Calculate time
6	System	Set arrival time Set departure time Display available slots
7	Fees	Calculate fees Calculate total income

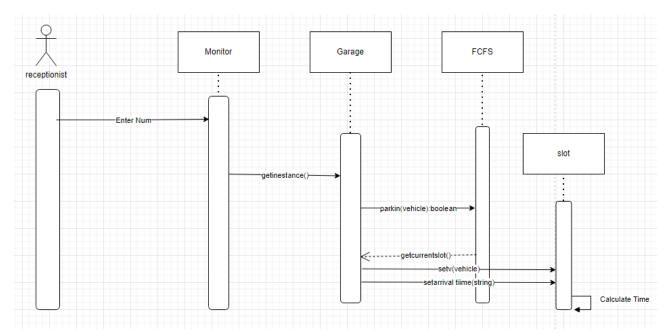
Important Algorithm

none

II. Sequence diagrams

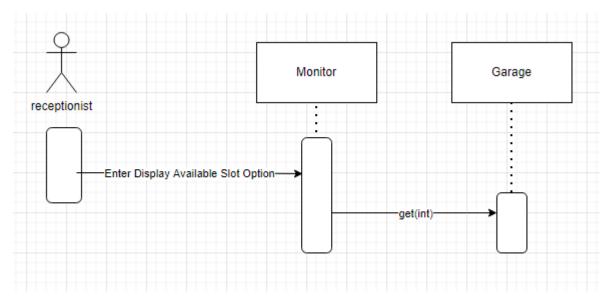
1- Park in





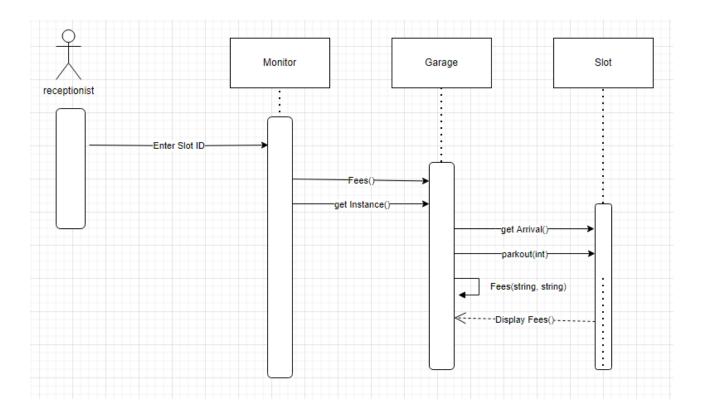
2- Display





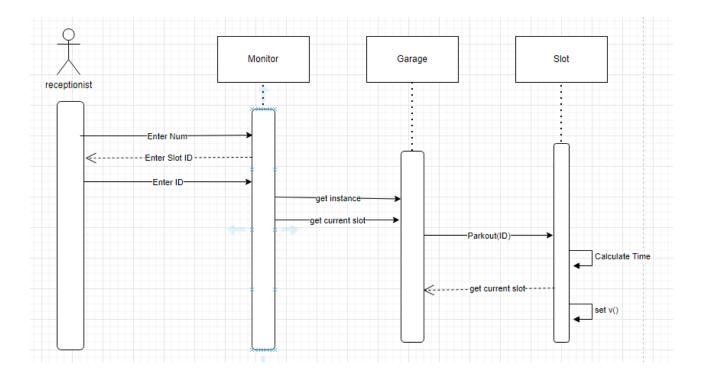
3- Fees





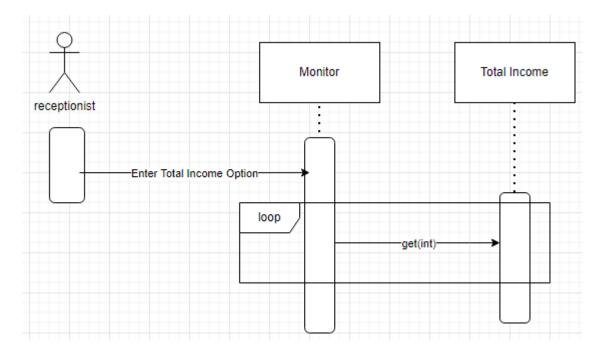
4- Park out





5- Total income





Class - Sequence Usage Table

Class Name	Sequence Diagrams	Overall used methods
Website	1, 2,3,4,5,6,7	 Log in Clear password field Enter vehicle data Display available slots Get configuration number Display total time Display fees Display vehicle place Display total income
System	1,2,3,4,5,6,7	 Retrieve available slots Check if configuration number is valid Give ID to vehicle Calculate total time Calculate parking time Calculate fees Retrieve vehicle place
Data base	1,2,3,6,7	 verify credentials check for the data store data check for available slots store configuration store ID look for vehicle ID check for password

Ownership Report

Item	Owners
Class diagram/ implementation	Mariam Osama Ahmed
Class diagram/ implementation	Fouad Sayed Fouad
Sequence diagram/ sequence usage table/ implementation	Mohamed Sayed Ali