

Cairo University

Faculty of Computers and Artificial Intelligent

CS251

Software Engineering I

Garage System

Software Requirements Specifications (SRS)

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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.

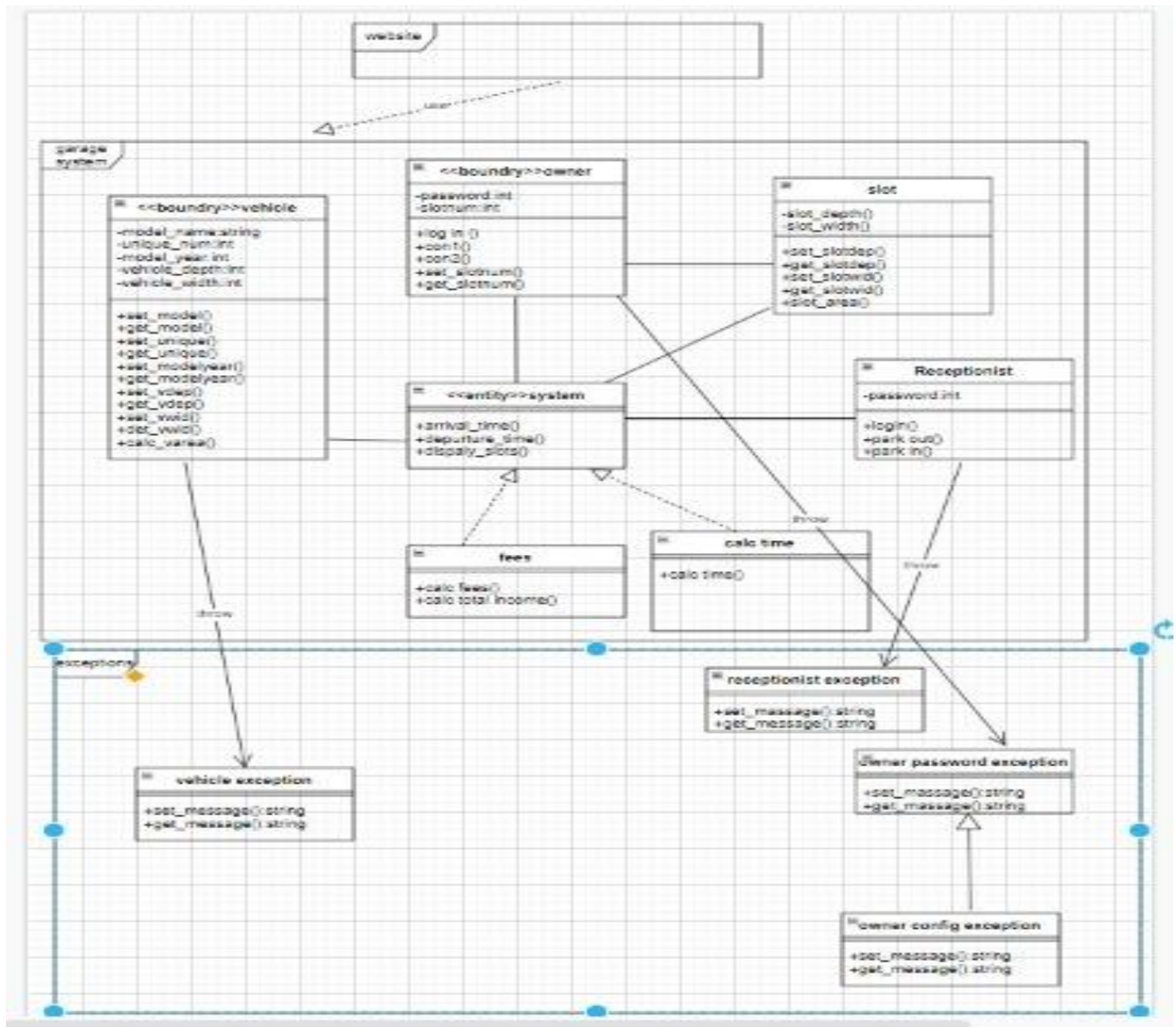
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System Models

I. Class diagrams



class diagram
phase1.drawio



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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

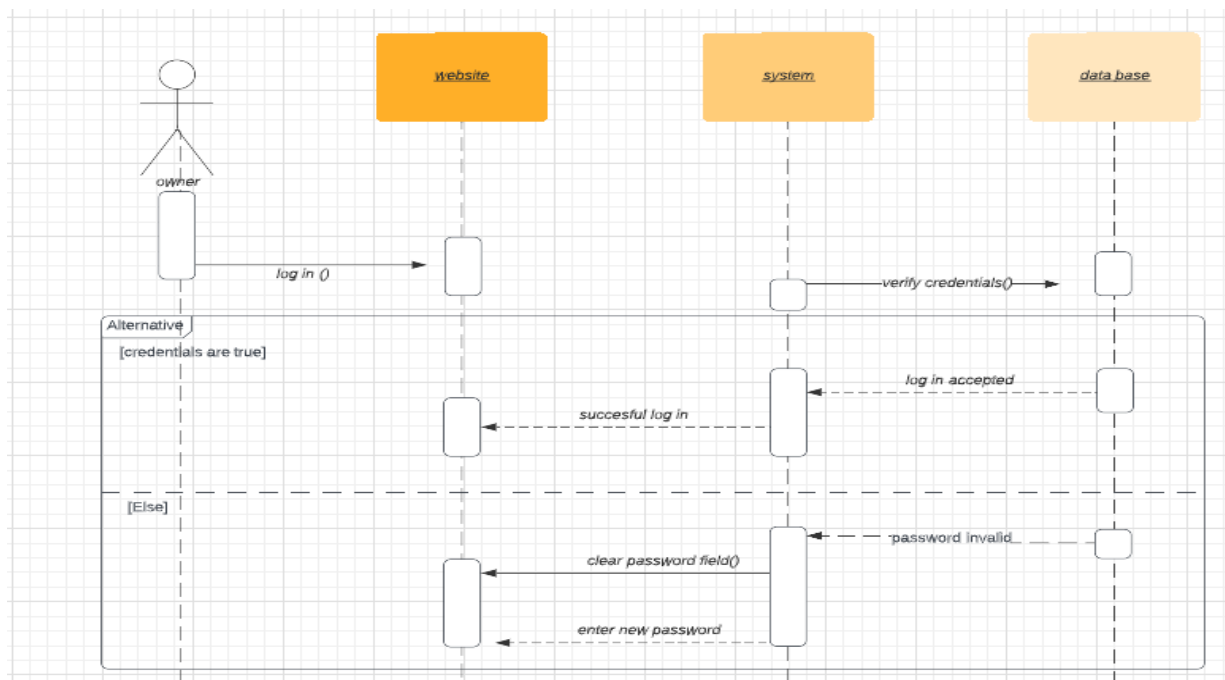
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II. Sequence diagrams



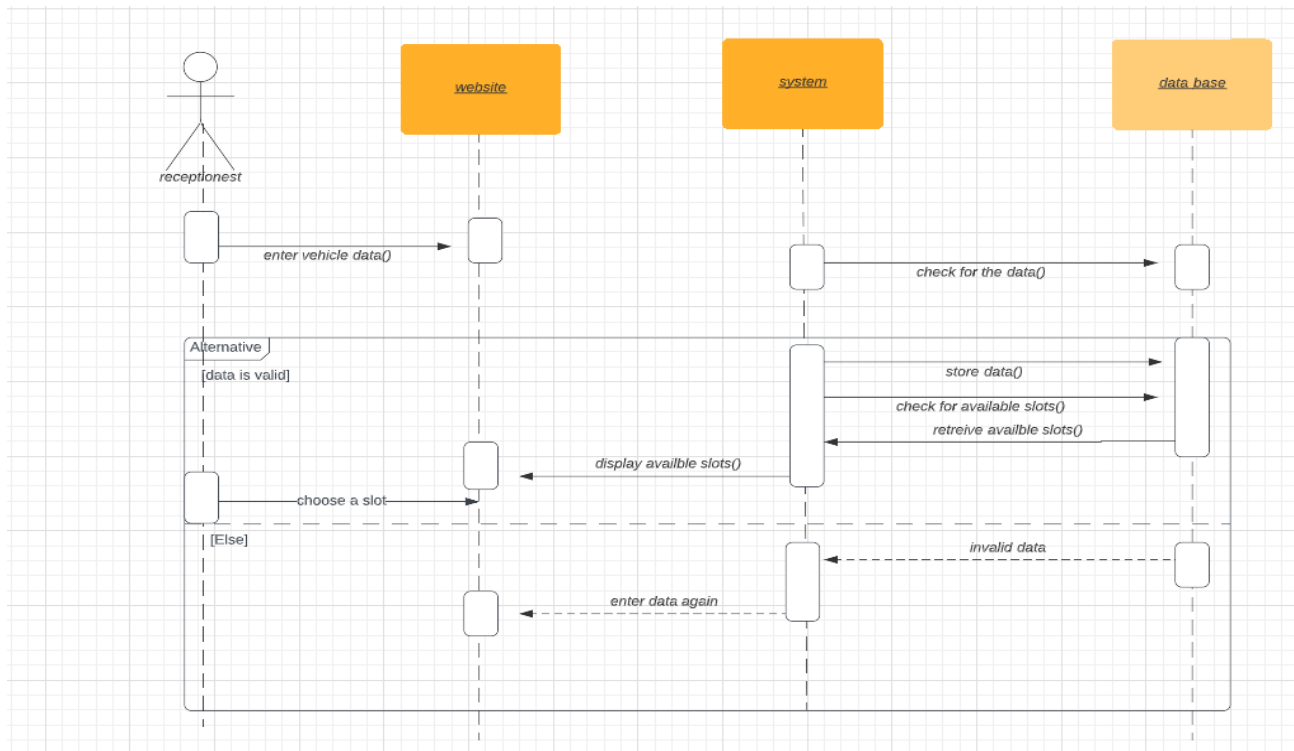
sequence
diagram.docx

1- Log-in



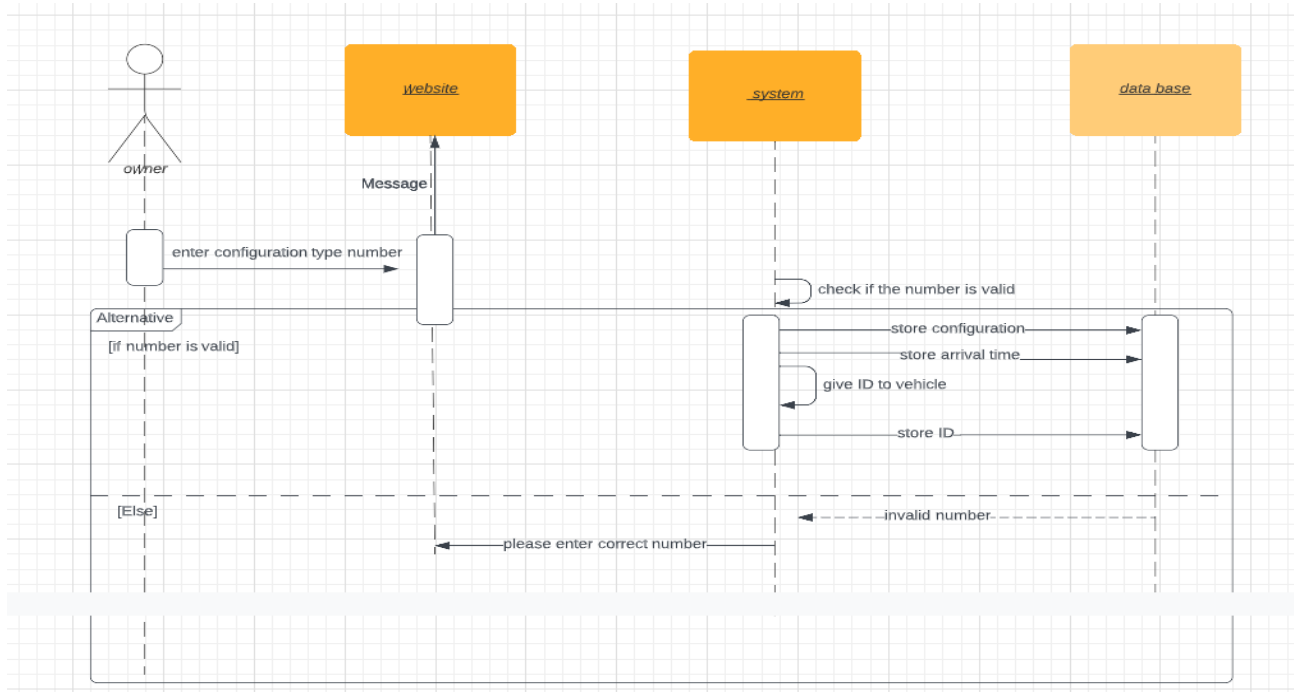
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2- Identification

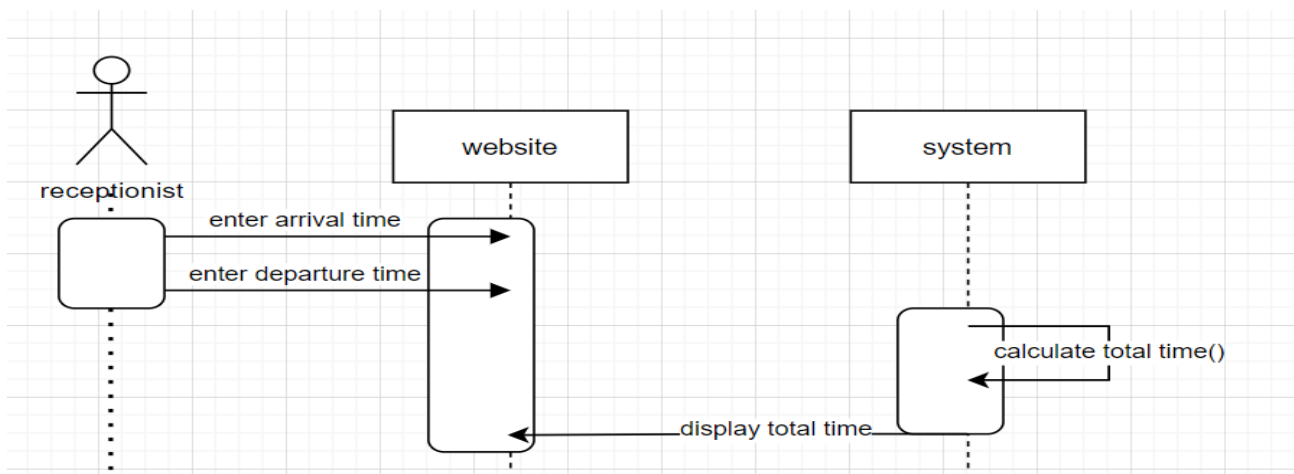


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3- Park in

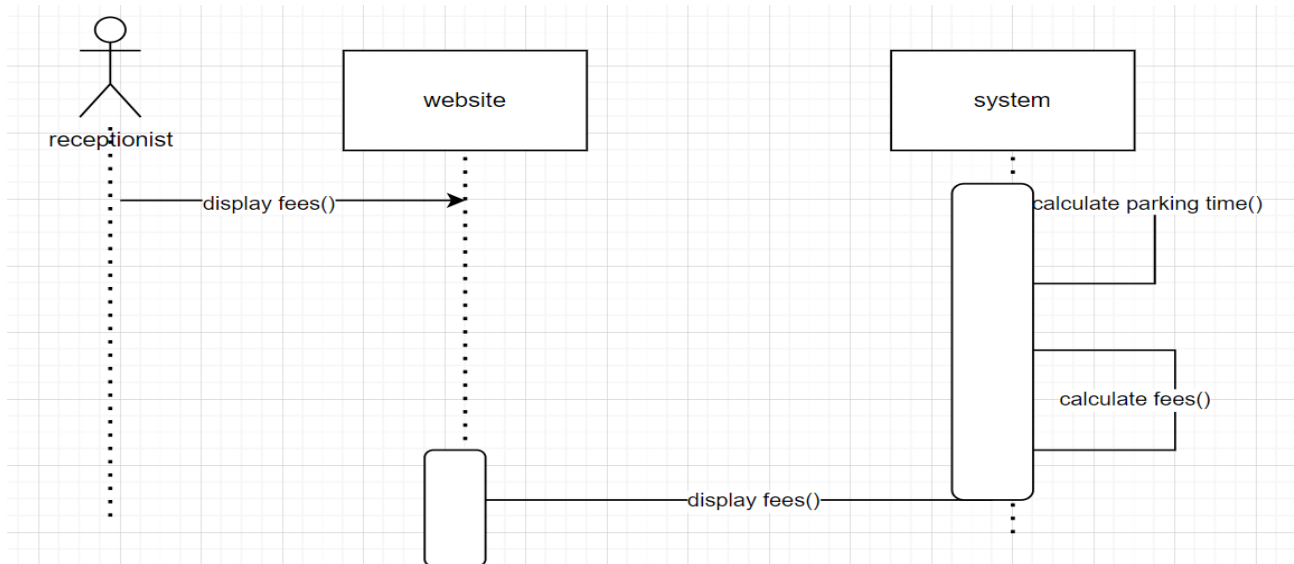


4- Calc time

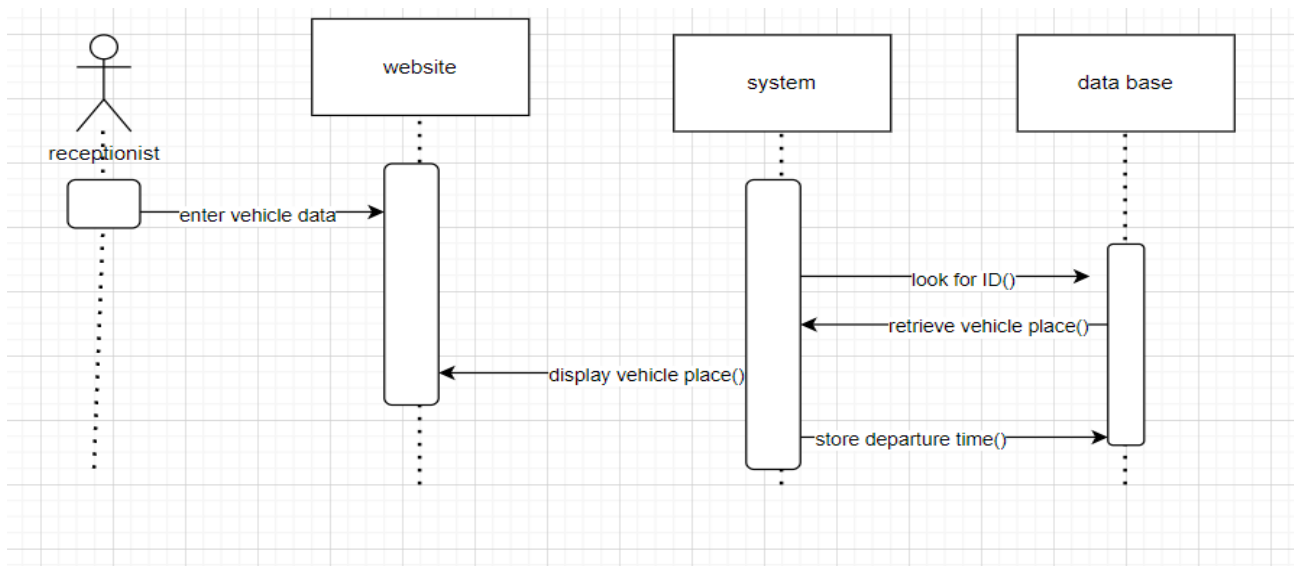


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5- Fees

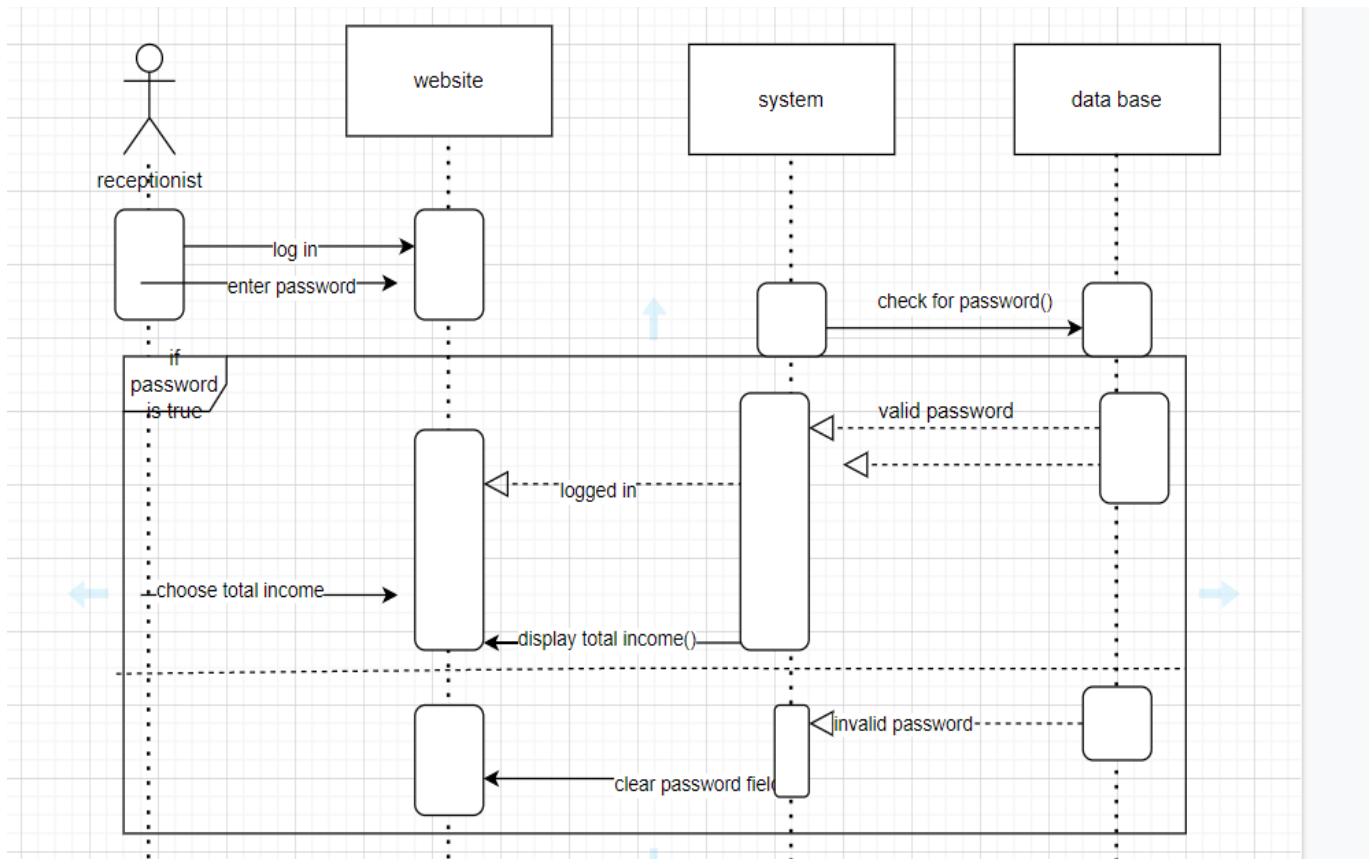


6- Park out



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7- Total income



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Class - Sequence Usage Table

Class Name	Sequence Diagrams	Overall used methods
Website	1, 2,3,4,5,6,7	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• verify credentials• check for the data• store data• check for available slots• store configuration• store ID• look for vehicle ID• check for password

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Ownership Report

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