

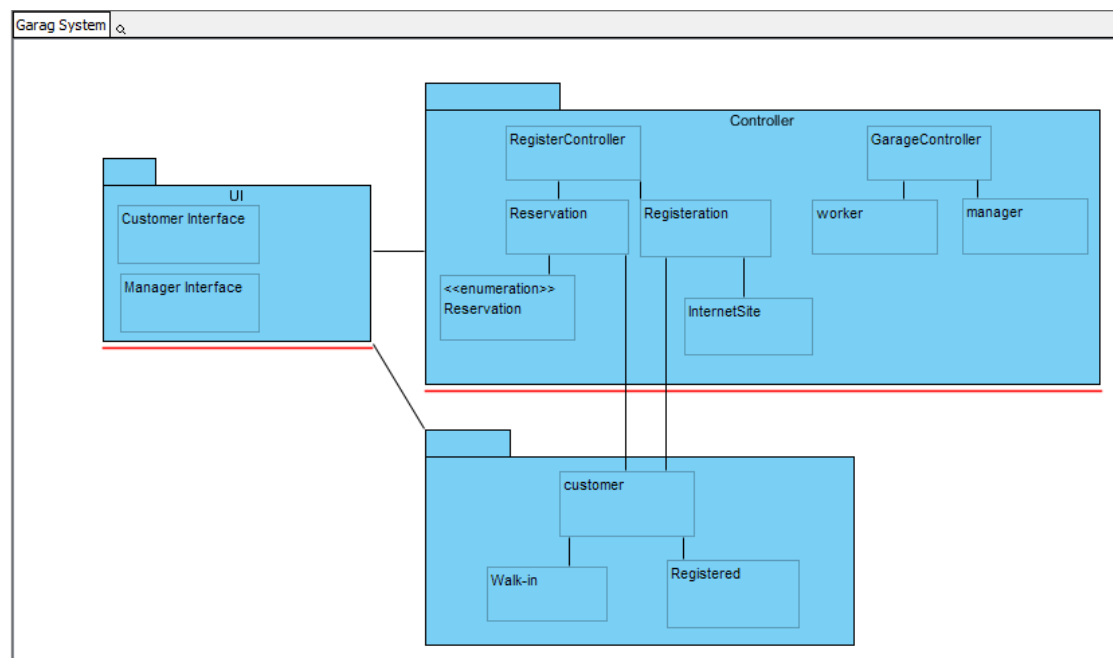
## Team

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## System name:

-Automated Parking Garage System

## 1- System Decomposition



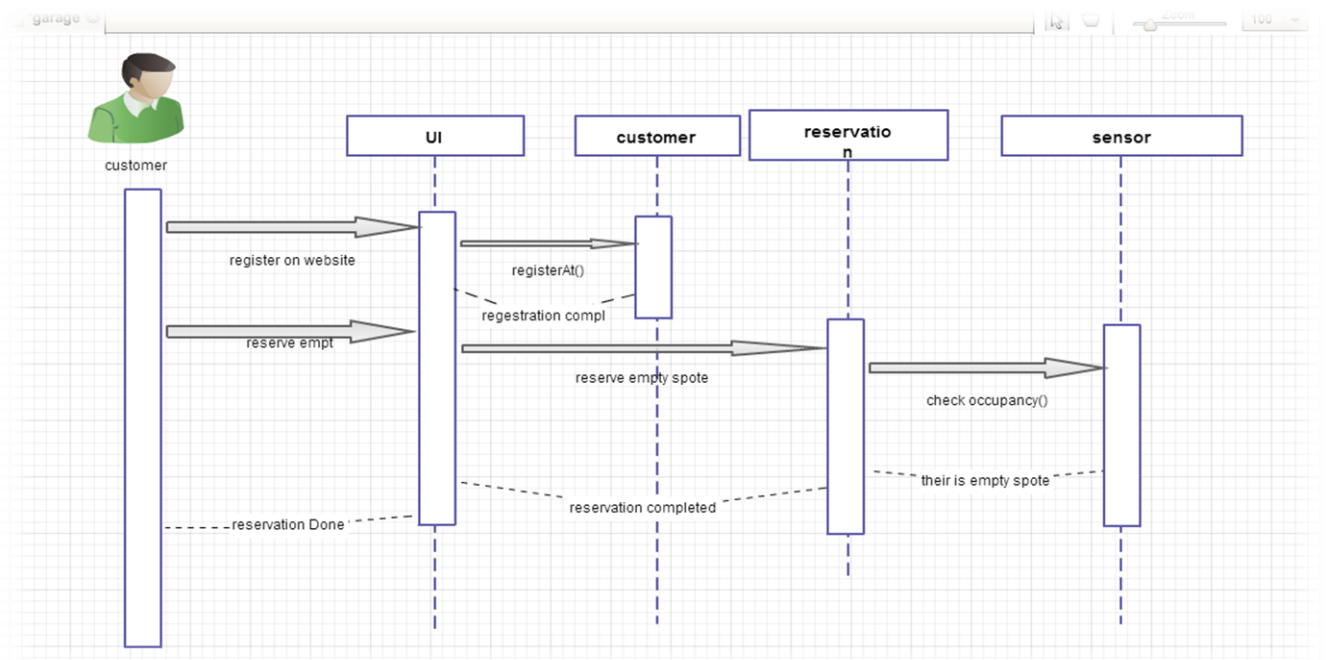
## 2-class diagram



Class ID	Class Name	Subsystem ID	Description
5	Walk_customer		-have no reservation
6	Register customer		Who has account and reservation number
7	registration		-the customer register on website -the customer has account to login
8	manager		<b>-Attribute</b> -phone_num -name  <b>-description</b> -accepted the reservation of customer -limited the number of reservation -updated up data
9	Internet site		- Help customer to register - Make reservation
10	worker		-arrange reservation

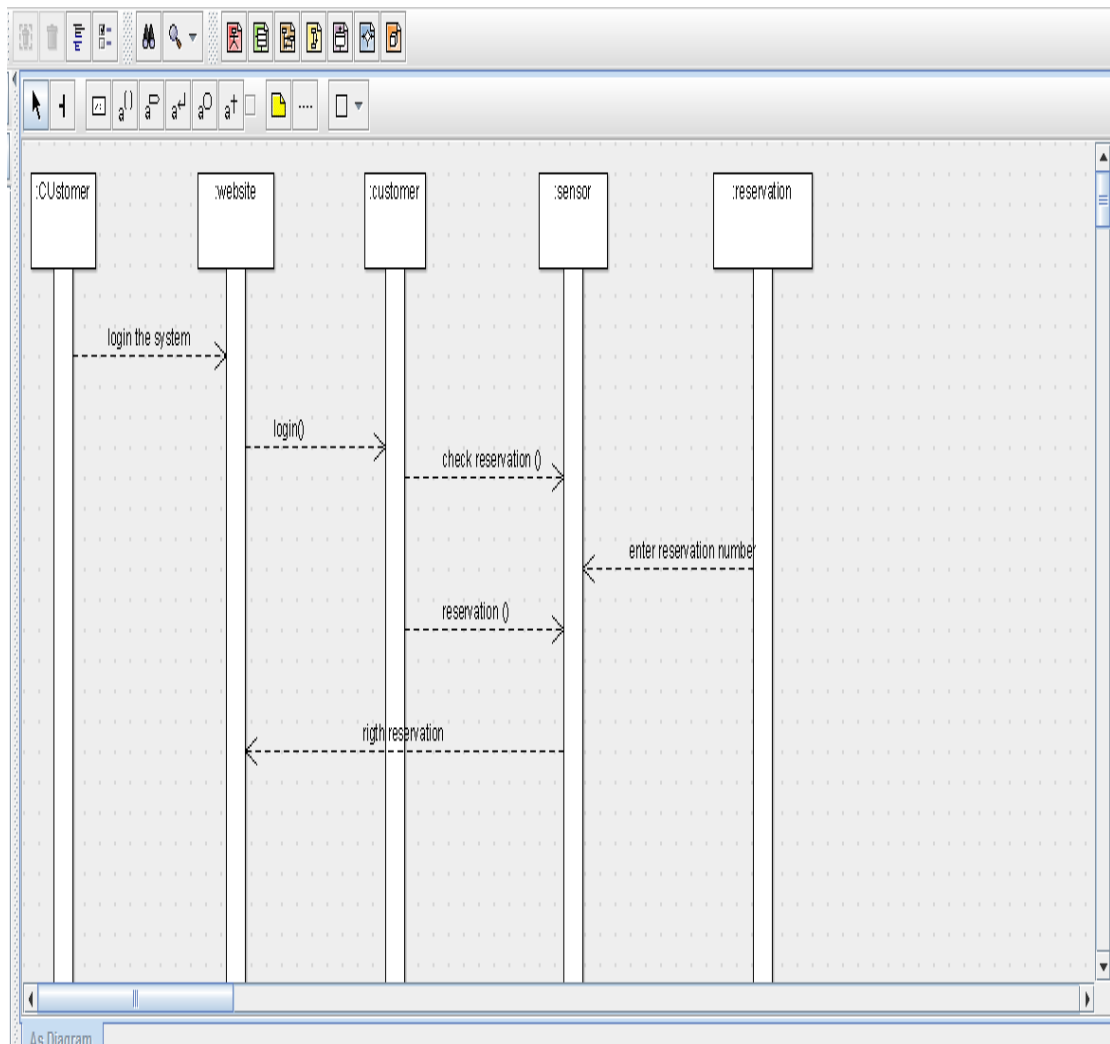
## 3-sequence diagram

-reservation



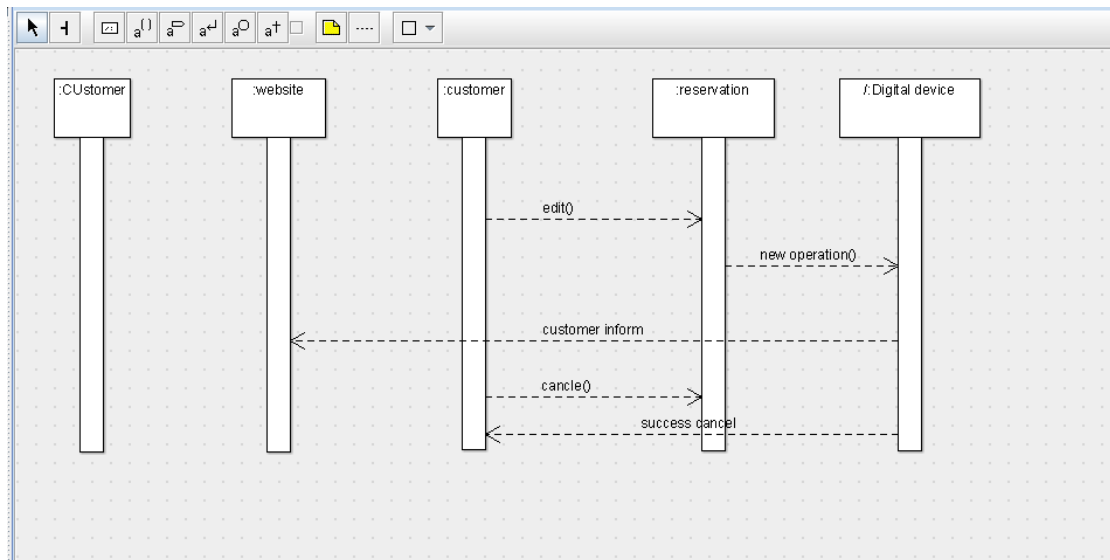
Class name	Sequence diagram	Overall used methods
customer	<ul style="list-style-type: none"> <li>-First customer <b>ask (website) to register</b></li> <li>-the website replay to customer <b>Registration completed</b></li> <li>-when reservation ended the customer has reservation number.</li> </ul>	-registerAt()
Reservation	<ul style="list-style-type: none"> <li>-customer want to reserve, the reservation ask the sensor about <b>check occupancy.</b></li> </ul>	Reservation ()
Sensor	<ul style="list-style-type: none"> <li>-sensor <b>check occupancy</b> and replay to reservation there is empty spot.</li> <li>- Reservation replay to customer the reservation completed.</li> </ul>	Check occupancy()

-check reservation



Class name	Sequence diagram	Overall used methods
customer	-using their account login the website To check reservation using reservation number.	-login()
Sensor, elevator	-The sensor or elevator check reservation by reservation number of customer	Check reservation ()
Reservation	When the reservation number is right The reservation replay to website Right reservation	

-edit or cancel reservation



Class name	Sequence diagram	Overall used methods
customer	-when customer want to edit the reservation he sent request to change it	Login()
reservation	-When customer want to edit the reservation. - reservation ask digital device for new operation	Edit() Cancel()
Digital device	- When customer want to edit the reservation. -it's replay to customer (new information)	newOperation()

## 4-software design specification

\*customer interface

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Name:

Email:

Cerdit card number:

license plate number:

- Manager interface

user name:

password: