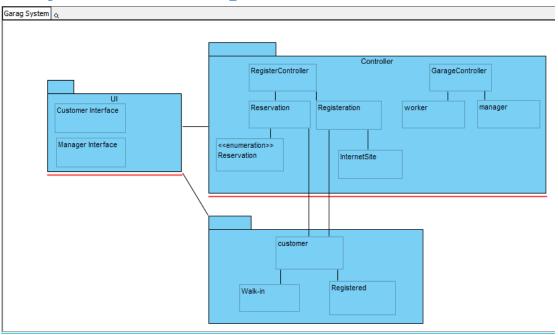
Team

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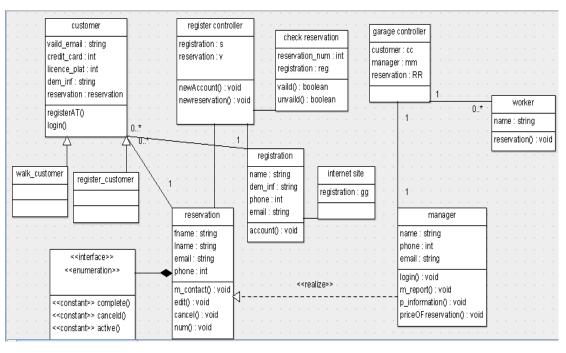
System name:

-Automated Parking Garage System

1- System Decomposition



2-class diagram

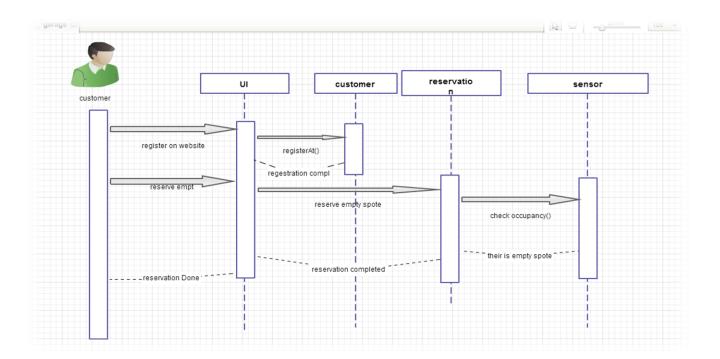


Class ID	Class Name	Subsystem ID	Description
1	customer	5 6	Attribute: -vaild_email -credit_card -licence_plate -dem_information -object reservation Description -The customer first must make registration In the system throw websiteTo be able to login the system and make reservation.
2	reservation		Attribute: -Reservation_num -object customer Description -When customer login and want to reserve The system check the occupancy -in reservation the system ask customer about it's m_contract -the customer when reservation done will have reservation number -the reservation can be edited or canceled
3	Garage controller		-has levels of building (ground, first, second) -has customers -place to implement reservation -has manager to manage it
4	Check reservation		-by using number reservation we check Reservation valid or not

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		-Attribute -phone_num -name -description -accepted the reservation of customer -limited the number of reservation -updated up data
9	Internet site		Help customer to registerMake reservation
10	worker		-arrange reservation

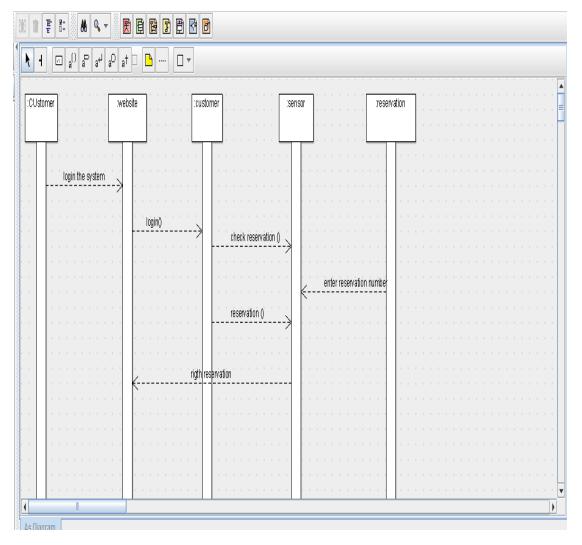
3-sequence diagram

-reservation



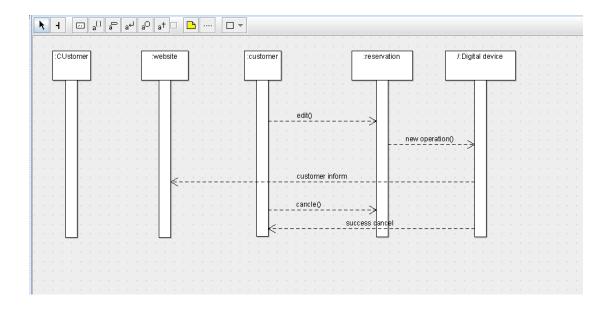
Class name	Sequence diagram	Overall used methods
customer	-First customer ask (website) to register -the website replay to customer Registration completed -when reservation ended the customer has reservation number.	-registerAt()
Reservation	-customer want to reserve, the reservation ask the sensor about check occupancy.	Reservation ()
Sensor	-sensor check occupancy and replay to reservation there is empty spot Reservation replay to customer the reservation completed.	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 reservationit's replay to customer (new information)	newOperation()

4-software design specification

*customer interface

Name:
Email:
Cerdit card number: license plate number:
Register

Manager interface

user name:		
password:		
	login	