



İZMİR EKONOMİ ÜNİVERSİTESİ

**SE 360 – ADVANCED IN SOFTWARE DEVELOPMENT
PROJECT REPORT**

Course Name: ADVANCED IN SOFTWARE DEVELOPMENT | 1

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Project Name: VEHICLE PARKING SYSTEM

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Vehicle Parking System provides ticket service online for vehicles and parking operators. There are three types of users that are Subscribed, Unsubscribed and Administrator. Users Subscribed can easily find parking for their vehicles which has reserved already with subscription. Users Unsubscribed can take a parking area if the park has a place only and they can make reservation. User Administrator have real-time information about the situation of parking area such as occupancy of the park and data about cars. Also Administrator can make ticketing process. The system's functional and non-functional requirements are following:

- User Administrator should be able to see occupancy rate of the park.
- Users should be able to subscribe to system and use privileges of the its such as reservation and online payment.
- Unsubscribers have to confirm their reservation within a certain time to. If they do not, the relevant parking space will be available again.
- Subscription is done according to the license plate of vehicle and subscription number which is like a password.
- Ticket information will be sent to users via e-mail as summary information.
- The system and users must have internet connection to take advantage of booking system.
- The system should be able to work on 7 days and 24 hours.

VEHICLE PARKING SYSTEM DATABASE DESIGN



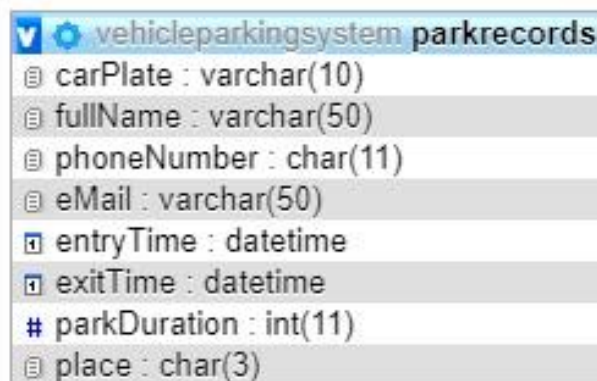
vehicleparkingsystem subscriberinfo	
carPlate	varchar(10)
subscriptionNumber	char(6)
fullName	varchar(50)
phoneNumber	char(11)
eMail	varchar(50)
creditCard	char(16)
subscriptionDate	varchar(10)

The “subscriberinfo” table keeps information of subscribed customer to apply all process about subscribed.



vehicleparkingsystem parkstatus	
carPlate	varchar(10)
fullName	varchar(50)
phoneNumber	char(11)
eMail	varchar(50)
entryTime	datetime
place	char(3)

The “parkstatus” table keeps information about the current status of the car park in real time. The information in this table is transferred to the “parkrecords” table by the administrator's Ticketing() operation.



vehicleparkingsystem parkrecords	
carPlate	varchar(10)
fullName	varchar(50)
phoneNumber	char(11)
eMail	varchar(50)
entryTime	datetime
exitTime	datetime
parkDuration	int(11)
place	char(3)

The “parkrecords” table keeps information the completed parking process.

Note: Vehicles in this table is not in the “parkstatus” table anymore means they left from the park.