

## Web Based Technologies –HW#3

### About the Assignment

Implement a bus registration system which is relied on the WEB application using ASP.NET. You will design the website as explained in following Figures.

**Step1:** The user should choose the direction from A city to B city, in Turkey. For instance, Bursa to Istanbul. You have to use two combobox. Also, You should use calendar to look at bookings in any given date. For the simplicity, just use only three bookings that are from Bursa to Istanbul, at the date of 28/03/2020.

The booking information are given as following:

- **BookingID:** it is combination of plate number and datetime and hour.  
Ex: 26PMK26-20200328-0315
- **From:** string; city name
- **To:** string; city name
- **Date:** string; ex: 28/03/2020
- **Hour:** string: hour: 03:15
- **Price:** string: ex: 62 TL

The screenshot displays the Anadolu bus booking website. The header features the Anadolu logo and navigation links: ONLINE BİLET, KURUMSAL, SEYAHAT KILAVUZU, MÜŞTERİ HİZMETLERİ, and İLETİŞİM. The search section includes fields for 'Kalkış Noktası' (Bursa), 'Varış Noktası' (İSTANBUL-AVRUPA(ESENLER)), and 'Tarih' (28/03/2020), with a 'Sefer Sorgula' button. Below, three bus options are listed, each with a 'Koltuk Seç' button. The first option is at 03:15, the second at 07:00, and the third at 09:00, all priced at 62 ₺. A note indicates that the bus will depart on Friday night.

Kalkış Noktası	Varış Noktası	Tarih	Sefer Sorgula
BURSA	İSTANBUL-AVRUPA(ESENLER)	28/03/2020	Sefer Sorgula

03:15	BURSA (03:15) - İSTANBUL-AVRUPA(ESENLER) (06:15)	62 ₺	Koltuk Seç
	Bu Sefer Cuma'nın Cumartesiye Bağlayan Gece Hareket Edecektir.		

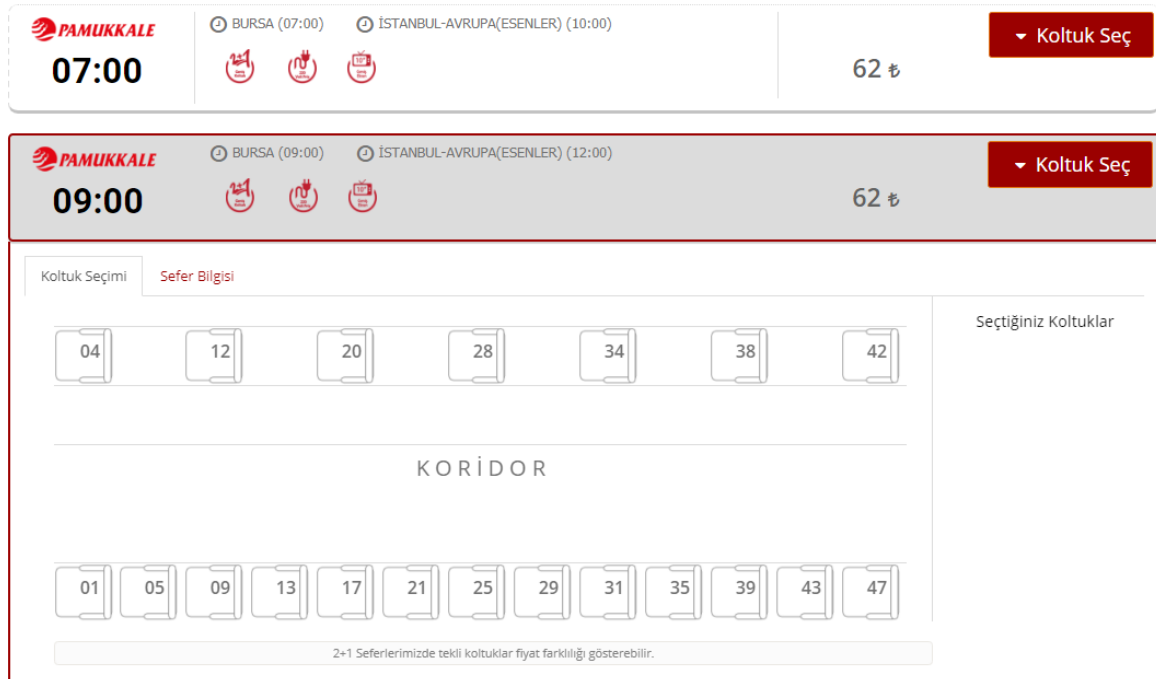
07:00	BURSA (07:00) - İSTANBUL-AVRUPA(ESENLER) (10:00)	62 ₺	Koltuk Seç

09:00	BURSA (09:00) - İSTANBUL-AVRUPA(ESENLER) (12:00)	62 ₺	Koltuk Seç

Fig. 1: Listing bookings

**Step2:** You have to use an accordion to display bookings.



**Fig. 2:** Accordion.

There are many choices to use an accordion.

1) use ajax Accordion.

<https://www.ittutorialswithexample.com/2015/01/how-to-add-ajax-control-toolkit-in-visual-studio.html>

<https://www.ittutorialswithexample.com/2015/10/accordion-control-in-ajax-control-toolkit.html>

You can manually bind booking information to Accordion.

**Step3:** Selecting seats. The seats information must be kept in access database, which is named as booking.mdb. You can use Department.mdb, which is available in 07\_GridView/App\_code folder.

There should be only one Table, which is named as **Booking**. You don't have to design a sophisticated table. You don't have to use primary key. Just design a simple table.

**Booking** table has following columns:

- **BookingID:** it is combination of plate number and datetime and hour.  
Ex: 26PMK26-20200328-0315
- **BusCapacity:** It refers to maximum number of passengers.
- **PassengerID:** It refers to TC number of a passenger
- **PassengerSeatID:** It refers to which seat is selected by passenger.
- **PassengerName:** It refers to name of a passenger

- **PassengerSurname:** It refers to surname of a passenger
- **PassengerGender:** It refers to gender of a passenger (M or F)
- **PassengerEmail:** It refers to email of a passenger
- **PassengerPhone:** It refers to phone of a passenger

You should design a bus like as shown in Fig. 3 by considering the **BusCapacity** of bus, which is available in the **Booking** table.

The user should be able to select any seat. If a set is empty, then it must be colored with white. If the seat is not empty, then it must be colored with red. For this purpose, you have check the all registered passengers Seat IDs which are available in Booking Table.

The image shows a mobile application interface for Pamukkale buses. At the top, there are two bus options:

- Option 1:** 07:00 departure, route BURSA (07:00) to ISTANBUL-AVRUPA(ESENLER) (10:00), 62 seats, and a "Koltuk Seç" button.
- Option 2:** 09:00 departure, route BURSA (09:00) to ISTANBUL-AVRUPA(ESENLER) (12:00), 62 seats, and a "Koltuk Seç" button.

Below the options is the "Koltuk Seçimi" (Seat Selection) screen. It features a "Sefer Bilgisi" (Trip Information) tab and a "Seçtiğiniz Koltuklar" (Selected Seats) list. The main area displays a bus layout with two rows of seats:

- Top Row:** Seats 04, 12, 20, 28, 34, 38. Seats 04, 12, 20, and 28 are highlighted in red, indicating they are selected.
- Bottom Row:** Seats 01, 05, 09, 13, 17, 21, 25, 29, 31, 35, 39, 43, 47. All seats in this row are white, indicating they are available.

A central "KORİDOR" (Corridor) is indicated between the two rows. A small pop-up window shows two passenger avatars. At the bottom, a note states: "2+1 Seferlerimizde tekli koltuklar fiyat farklılığı gösterebilir."

**Fig. 3:** Seats which are empty of selected.

**Step4:** Selecting seats. If the seat is selected you should redirect the user to registration page. You should use session in case or redirection. If the button, namely "**Ödeme Adımına Geç**" is clicked, then you have to keep **Gender** and **SeatID** information in a session, and redirect user to registration page.

BURSA (07:00)

İSTANBUL-AVRUPA(ESENLER) (10:00)

07:00

62 ₺

Koltuk Seç

BURSA (09:00)

İSTANBUL-AVRUPA(ESENLER) (12:00)

09:00

62 ₺

Koltuk Seç

Koltuk Seçimi

Sefer Bilgisi

04

12

20

28

34

38

42

KORİDOR

01

05

09

13

17

21

25

29

31

35

39

43

47

2+1 Seferlerimizde tekli koltuklar fiyat farklılığı gösterebilir.

Seçtiğiniz Koltuklar

42

Bay

Ödeme Adımına Geç

Fig. 4. Selection page.

**Step5:** Registration page. Registration.aspx. This page is used to save passenger information to Bookings dataset. You have to insert Name, Surname, Phone, Email, TC, Gender and SeatID to Booking Table after the [Register Button](#) is clicked by the user.

Yolcu Bilgileri

42

Name

Surname

Phone

Email

TC

Register

Altın Bilet

Altın Bilet, biletli olduğu halde otobüsü çeşitli sebeplerden dolayı kaçıran yolcularımıza yeniden yolculuk hakkı tanıyan bilet sistemidir. [Detaylı Bilgi](#)

☒ Yanmaz Bilet İstiyorum

Sefer Bilgileri




TARİH	KALKIŞ	VARIŞ	SAAT
28/03/2020	BURSA	İSTANBUL-AVRUPA(ESENLER)	09:00

Fig. 5. Registration page.

Your homework will be graded based on your design.

Only send asp.net files and required folders (App\_Code, images or database) like below. Send with shortest name and **Zip** format.

## Example; name-surname-HW3.Zip

 Default.aspx	2019-02-19 15:46	ASP.NET Server Pa	1 KB
 Default.aspx.cs	2019-02-20 11:16	CS File	2 KB
 Default.aspx.designer.cs	2019-02-19 15:43	CS File	3 KB