

Web Based Technologies –HW#4

About the Assignment

Implement airplane ticket buying 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.

The booking information are given as following:

- **BookingID:** it is combination of plane number and passenger-id.
Ex: N973JM-20265812458
- **From:** string; city name
- **To:** string; city name
- **Date:** string; ex: 28/03/2020
- **Hour:** string; hour: 03:15
- **Price:** string; ex: 62 TL

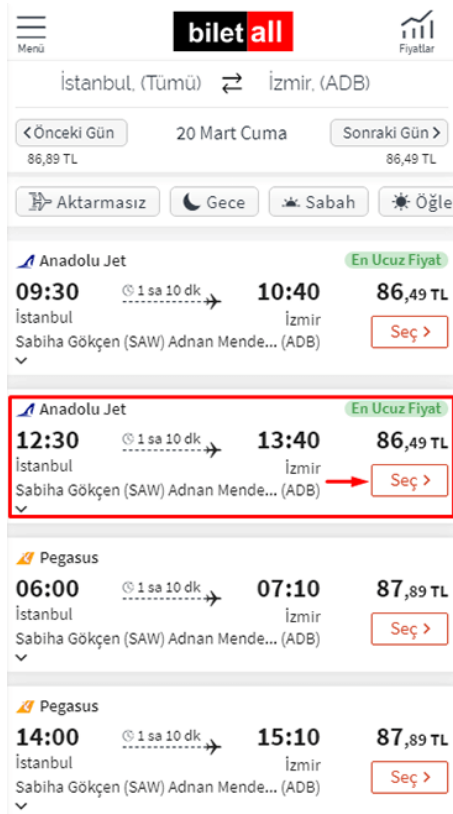


Fig. 1: Listing bookings

You can use accordion for Fig. 1

There are many choices to use an accordion.

1) use ajax Accordion: In this homework, you are expected to implement the ajax tools.

<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.

Step2: You should allow passenger to select seat.

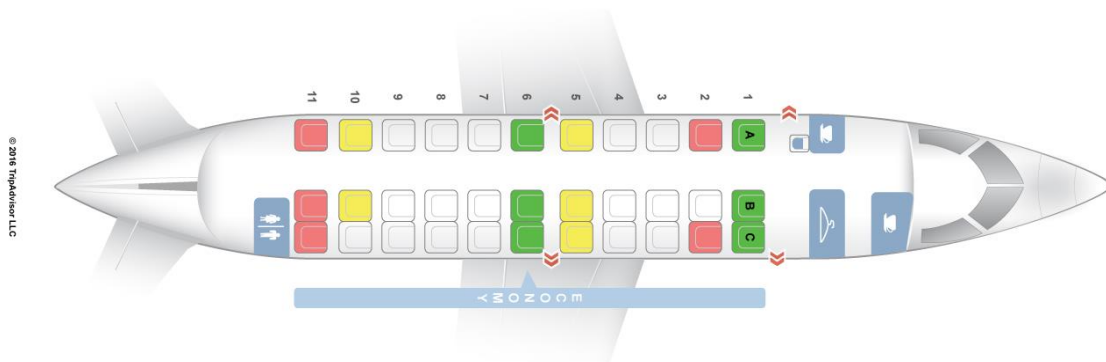


Fig. 2: Selecting seats.

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 use primary key. Just design a simple table.

Booking table has following columns:

- **BookingID:** it is combination of airplane number- • PassengerID.
Ex: N973JM-20265812458
- **AirplaneCapacity:** It refers to maximum number of passengers.
- **PassengerID:** It refers to TC number of a passenger
- **PassenderSeatID:** 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 an airplane like as shown in Fig. 2 by considering the **AirplaneCapacity** of airplane, 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.

Step3: 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.

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

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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.

Step6: Admin page. In admin page, you are expected to generate the a pdf file that includes list of passengers. You have to insert the seat-id, name, surname and phone number of each passenger in pdf file, in increasing order of seat-id. In order to generate pdf, you can use a nugget package. It depends your design.

Example; name-surname-HW4.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