

# **Project Step 5 - Database Application Development**

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## **Change Request**

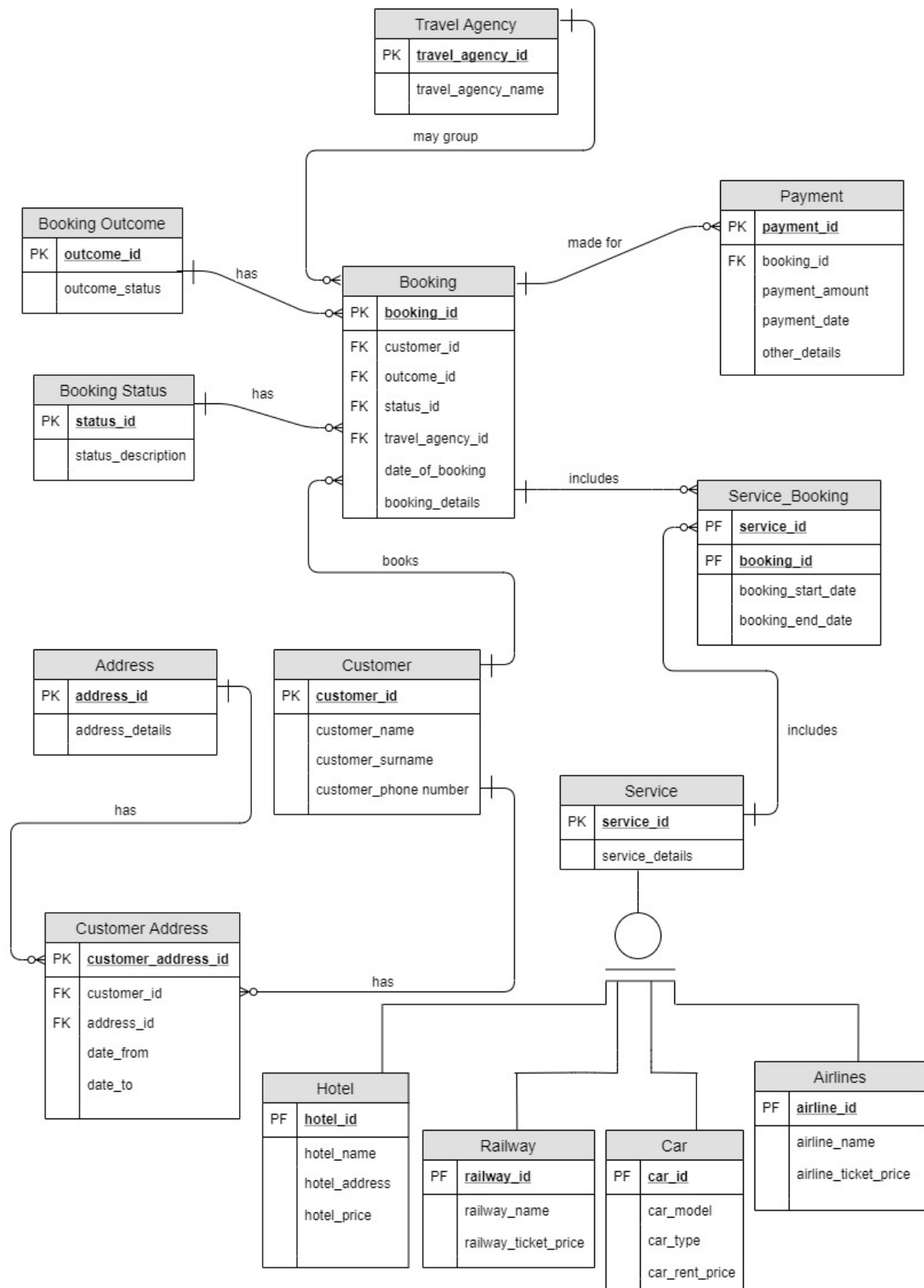
hotel\_price attribute was added to keep the price information of the Hotel entity.

car\_rent\_price attribute was added to keep the price information of the Car entity.

railway\_ticket\_price attribute was added to keep the price information of the Railway entity.

airline\_ticket\_price attribute was added to keep the price information of the Airlines entity.

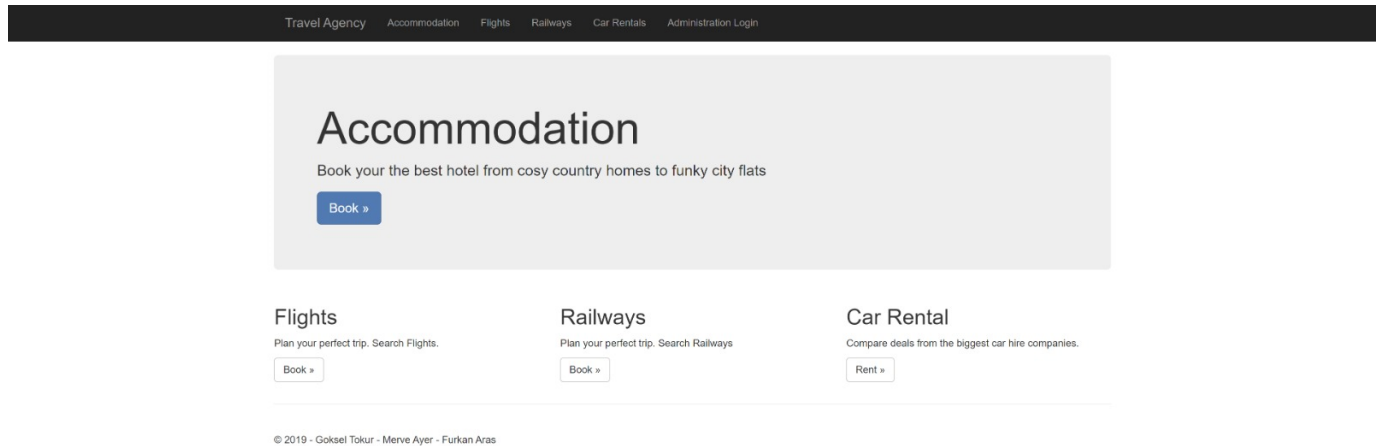
other\_details attribute was added to keep the paid information of the Payment entity.



# Application Part

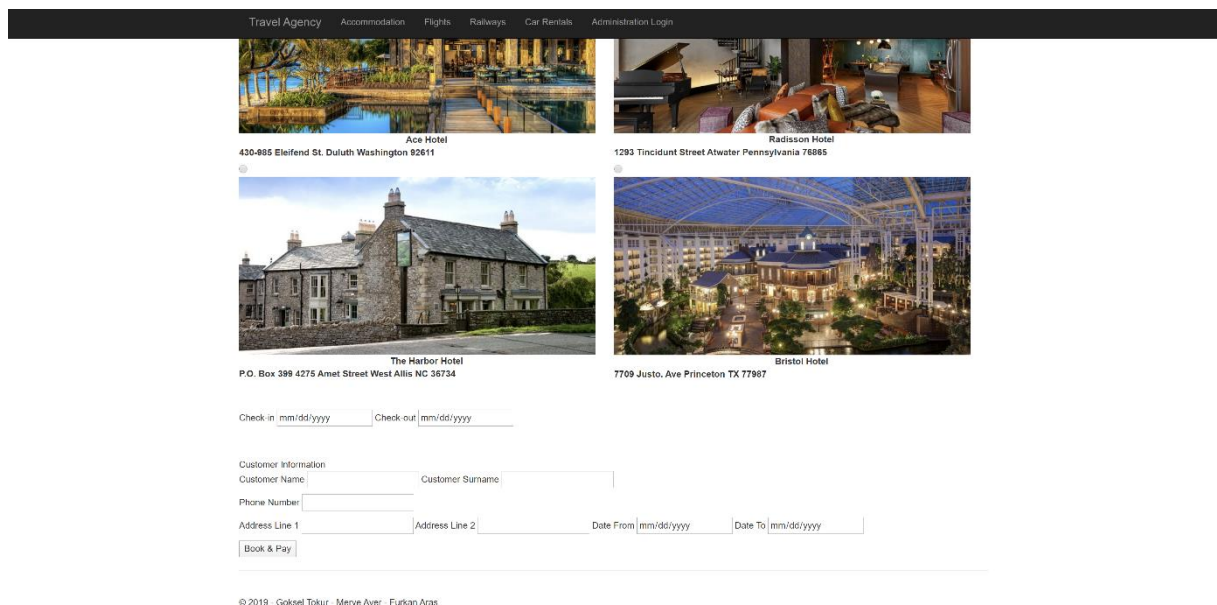
7 pages created for the web application. The names of these pages are: Travel Agency, Accommodation, Flights, Railways , Car Rentals, Administration Login and Administration panel.

## Default Page



This page is Travel Agency page. On this page, you can select which service you want to book. Service types that can be selected are Accommodation, Flights, Railways, Car Rental. When the book or rent button is clicked, the customer is directed to the relevant page.

## Accommodation Page



This page is Accommodation page. On this page select the hotel to be booked. check-in check-out dates are select. Customer information is requested for payment and book. This information is the customer's name, surname, phone number, address information and the validity period of the address entered. Click the book & pay button completes the reservation.

## Flights Page

[Travel Agency](#) [Accommodation](#) [Flights](#) [Railways](#) [Car Rentals](#) [Administration Login](#)

Welcome,  

Please Select a Airlines ▼

From

Please Select a Departure Location ▼

To

Please Select a Return Location ▼

Departure Date

mm/dd/yyyy

Return

mm/dd/yyyy

Passenger Information

Customer Name

Customer Surname

Phone Number

Address Line 1

Address Line 2

Date From

mm/dd/yyyy

Date To

mm/dd/yyyy

Book & Pay

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This page is Flights page. The airline is selected first to make a flight reservation. The departure location is selected from From section. The return location is selected in To section. Departure date and Return date are selected. Customer information is requested for payment and book. This information is the customer's name, surname, phone number, address information and the validity period of the address entered. Click the book & pay button completes the reservation.

## Car Rental Page

[Travel Agency](#) [Accommodation](#) [Flights](#) [Railways](#) [Car Rentals](#) [Administration Login](#)

Welcome, please select model and type of the car  

Please Select ▼

Pick-up Date

mm/dd/yyyy

Drop-off Date

mm/dd/yyyy

Customer Information

Customer Name

Customer Surname

Phone Number

Address Line 1

Address Line 2

Date From

mm/dd/yyyy

Date To

mm/dd/yyyy

Rent & Pay

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This page is Car Rental page. On this page select the model and type of the car to be rented. Pick-up date and drop-off date are select. And customer information is requested for payment and rent. This information is the customer's name, surname, phone number, address information and the validity period of the address entered. Click the rent & pay button completes the reservation.

## Railways Page

[Travel Agency](#) [Accommodation](#) [Flights](#) [Railways](#) [Car Rentals](#) [Administration Login](#)

Welcome,  
Please Select a Railways ▾

From  To  Departure Date  Return

Customer Information

Customer Name  Customer Surname

Phone Number

Address Line 1  Address Line 2  Date From  Date To

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This page is Railway page. The railway company is selected first to make a railway reservation. The departure location is selected from From section. The return location is selected in To section. Departure date and Return date are selected. And customer information is requested for payment and book. This information is the customer's name, surname, phone number, address information and the validity period of the address entered. Click the book & pay button completes the reservation.

## Administration Page

[Travel Agency](#) [Accommodation](#) [Flights](#) [Railways](#) [Car Rentals](#) [Administration Login](#)

Current Revenue of Each Agency

Travel Agency ID	Travel Agency Name	Total Revenue
1	Booking.com	5533
2	Skyscanner	585.9
3	Travelcations	470
4	The Travel Connections	264.5
5	Fox Travels	85
9	Travel Tech	800
10	Travel Express	399.9

Customer Name	Customer Surname	Booking ID	Date of Booking	Payment Amount	Payment Details
Hilda	Haynes	1	10/10/2019 12:00:00 AM	100	Paid
Chester	Bennett	2	10/10/2019 12:00:00 AM	275.5	Paid
Adria	Russell	3	10/10/2019 12:00:00 AM	150	Paid
Daniel	Bernard	4	10/11/2019 12:00:00 AM	399.9	Paid
Cara	Whitehead	5	10/12/2019 12:00:00 AM	245.5	Paid
Rebecca	Chambers	6	10/13/2019 12:00:00 AM	85	Paid
Edward	Nieves	7	10/13/2019 12:00:00 AM	114.5	Paid
David	Mathews	8	10/17/2019 12:00:00 AM	800	Paid
Kim	Fletcher	9	10/18/2019 12:00:00 AM	565.9	Paid
Lee	Preston	10	10/18/2019 12:00:00 AM	370	Paid
Gökseil Tokur	Tokur	25	12/22/2019 7:47:39 AM	1400	Paid
Gökseil Tokur	Tarhan	26	12/22/2019 7:49:09 AM	300	Paid
Gökseil Tokur	Tokur	27	12/22/2019 9:38:46 AM	180	Paid
Merve	Ayer	29	12/23/2019 10:27:59 AM	180	Paid
Gökseil Tokur	asd	30	12/23/2019 10:31:16 AM	700	Paid
Gökseil Tokur	wwwwww	31	12/23/2019 10:42:51 AM	350	Paid
Gökseil Tokur	lllllll	32	12/23/2019 10:43:35 AM	350	Paid
Gökseil Tokur	xxx	33	12/23/2019 10:45:43 AM	175	Paid
Gökseil Tokur	uuuuuuu	34	12/23/2019 10:46:40 AM	350	Paid
Gökseil Tokur	Ayer	37	12/23/2019 11:28:00 AM	225	Paid
Gökseil Tokur	SADASD	38	12/24/2019 3:08:51 AM	135	Paid
Gökseil Tokur	rrrr	39	12/24/2019 6:13:03 AM	72	Paid
Gökseil Tokur	wqeqwe	41	12/24/2019 9:07:35 AM	595	Paid

We can see the revenue of each agency view that we created in the database on the administration page. The view we created shows the earnings of each travel agency from the reservations made so far and lists these travel agencies according to their Travel Agency ID.

Click on the Get All Bookings button, bookings and booking details are listed according to their booking ID.

Travel Agency
Accommodation
Flights
Railways
Car Rentals
Administration Login

Bookings Above 3 number of days.

Booking ID	Number Of Days	Booking Start Date	Booking End Date
9	4	12/7/2019 12:00:00 AM	12/11/2019 12:00:00 AM
4	4	12/25/2019 12:00:00 AM	12/29/2019 12:00:00 AM
7	4	11/29/2019 12:00:00 AM	11/24/2019 12:00:00 AM
8	5	2/15/2020 12:00:00 AM	2/20/2020 12:00:00 AM
25	7	12/22/2019 12:00:00 AM	12/29/2019 12:00:00 AM
26	3	12/18/2019 12:00:00 AM	12/21/2019 12:00:00 AM
30	4	12/23/2019 12:00:00 AM	12/27/2019 12:00:00 AM
37	5	12/23/2019 12:00:00 AM	12/28/2019 12:00:00 AM
41	7	12/24/2019 12:00:00 AM	12/31/2019 12:00:00 AM

Get payments that is greater than 150

Payment ID	Booking ID	Payment Amount	Payment Date
222	2	275.5	10/10/2019 12:00:00 AM
333	3	150	10/10/2019 12:00:00 AM
444	4	399.9	10/11/2019 12:00:00 AM
555	5	245.5	10/12/2019 12:00:00 AM
888	8	800	10/17/2019 12:00:00 AM
999	9	565.9	10/18/2019 12:00:00 AM
1111	10	370	10/19/2019 12:00:00 AM
1112	25	1400	12/22/2019 7:47:38 PM
1113	26	300	12/22/2019 7:49:09 PM
1114	27	180	12/22/2019 9:55:46 PM
1115	29	180	12/23/2019 10:27:59 PM
1116	30	700	12/23/2019 10:31:16 PM
1117	31	350	12/23/2019 10:42:51 PM
1118	32	350	12/23/2019 10:43:35 PM
1119	33	175	12/23/2019 10:45:49 PM
1120	34	350	12/23/2019 10:46:41 PM
1121	37	225	12/23/2019 11:28:00 PM
1124	41	595	12/24/2019 9:07:35 PM

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We can reach the bookings over a specified number of days from stored procedure that we created in the database on the administration page. First table in this picture , bookings over 3 days and the booking start and booking end dates of these reservations are listed according to their Booking ID.

We can see the payment amount over specified number from stored procedure that we created in the database on the administration page. Second table in this picture, shows payment amount over 150. Booking ID, Payment Amount and Payment Date are listed according to their Payment ID.

## Change Status or Outcome Page

Travel Agency
Accommodation
Flights
Railways
Car Rentals
Administration Login

Change Status of booking: booking id = Status = Update

Change Outcome of booking: booking id = Outcome = Update

Booking ID	Performed Action	Action Date	Status	Outcome
1	Insert	12/15/2019 12:53:04 PM	Accepted	Canceled
2	Insert	12/15/2019 12:53:04 PM	Accepted	OK
3	Insert	12/15/2019 12:53:04 PM	Accepted	OK
4	Insert	12/15/2019 12:53:04 PM	Accepted	Canceled
5	Insert	12/15/2019 12:53:04 PM	Accepted	OK
6	Insert	12/15/2019 12:53:04 PM	Accepted	OK
7	Insert	12/15/2019 12:53:04 PM	Accepted	Canceled
8	Insert	12/15/2019 12:53:04 PM	Accepted	OK
9	Insert	12/15/2019 12:53:04 PM	Accepted	Canceled
10	Insert	12/15/2019 12:53:04 PM	Accepted	OK
42	Insert	12/24/2019 10:25:55 PM	Accepted	OK
43	Insert	12/24/2019 10:27:08 PM	Accepted	OK
44	Insert	12/24/2019 10:28:03 PM	Accepted	OK
45	Insert	12/24/2019 10:28:32 PM	Accepted	OK

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When click on the “ Click to change status or outcome of the bookings” button, we update the status text box and outcome text box by entering the status booking id and outcome booking id. Booking\_log table’s attributes, status description and outcome status are listed according to their Booking ID. (Booking\_log table was created with insert, update and delete triggers).