Web Programming Course BSM311

Project Homework Report

A minimalistic Travel Agency Web Application developed in ASP.NET core MVC with multiple functionalities.

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GROUP :   1C

PROJECT GITHUB LINK :
https://github.com/hajergafsi/Proje-Web-Programlama

YOUTUBE VIDEO LINK :
https://youtu.be/vZBhiRnbWWw

Web Programming Course
# BSM311

Project Homework Report

PART 1 : THE DATABASE MODEL
Written in SQL Server, the database is formed of 19 tables:

- **Tables used for the display :** these tables were mainly created to format the display of the Homepage of the website. Examples:
  BlogPosts: contains the posts that form the Agency's blog page,
  About: This table contains the contact information of the Agency, **Activities:** formed by samples of activities included in the tours, mainly used for marketing and design puposes ,
  InstaPosts: This table contains social media content(images) of the Agency's social media pages,(to be displayed in the footer)
  Review: The table that contains customer reviews, will be used for advertising
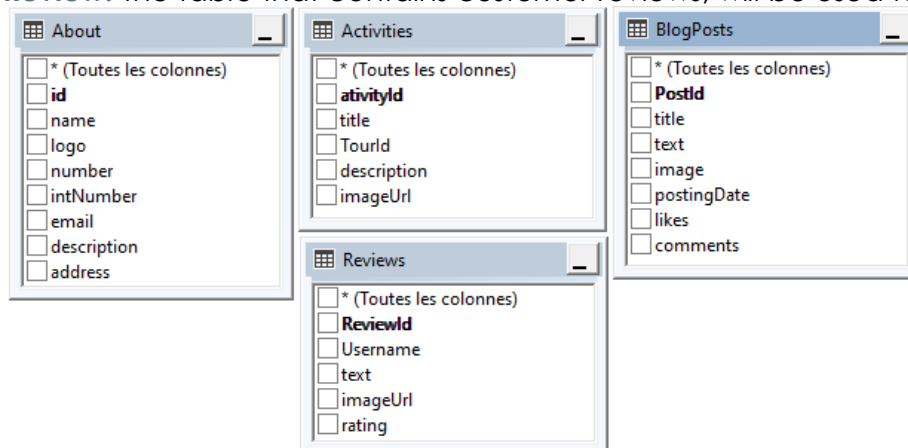
- **Tables used as the Product:** these tables represents the product of the Agency, they are manageable by the Admin who can perform CRUD operations via the Admin Panel
  Cities: This table contains the cities the agency offers tours to, every city is associated with a Tour program.
  Countries: This table contains the partner countries of the agency, a country can be associated with more than a city
  Tours: This table represents the main product the agency sells, every Tour is a combination of city Tours that can be situated in different countries(example: Europe Tour that includes Athens and Madrid)
  Hotels: This table represents the partner Hotels the agency uses for accommodation, each hotel is associated with a city
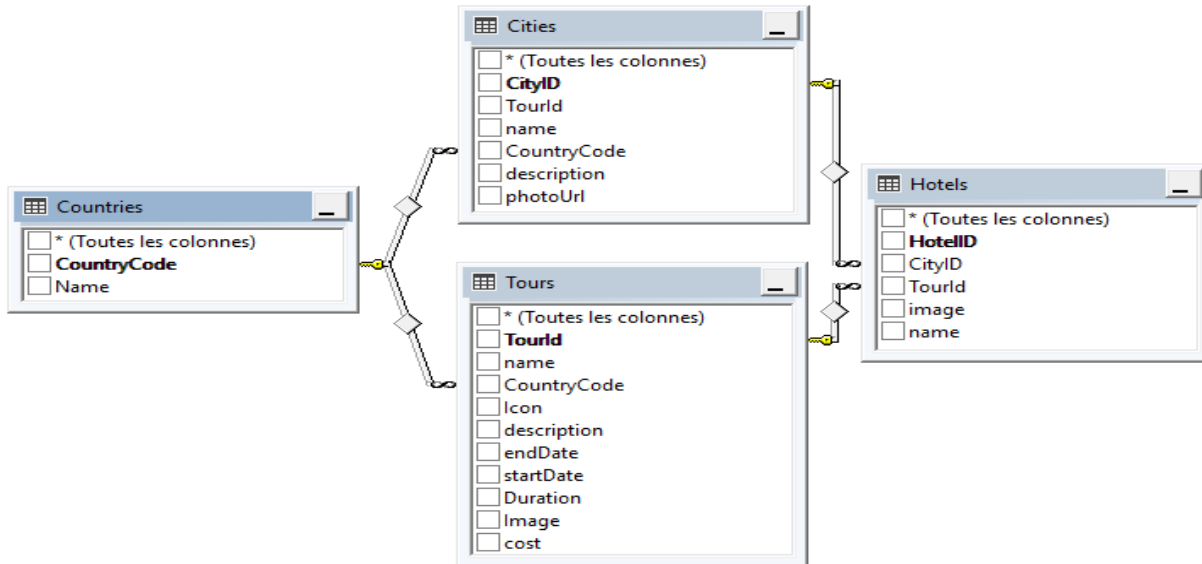
- **Tables used in the Booking Process:** Tables where information about bookings, credit cards and payment informations are stored, they are responsible for allowing the users to perform bookings, payments and cancellations
  Bookings: This table contains booking, customer and Tour informations as well as state which indicates wheather booking has been payed(confirmed) or not **.** When user clicks on confirm booking the booking is added to bookings table but the state remains unconfirmed until payment is successfully done.
  CreditCards: This table contains the informations of valid credit cards the customers can use to process payments and confirm bookings ;number, CVV and expiration date**.**
  Payments: This table will store successfully completed payments and information about payment date.
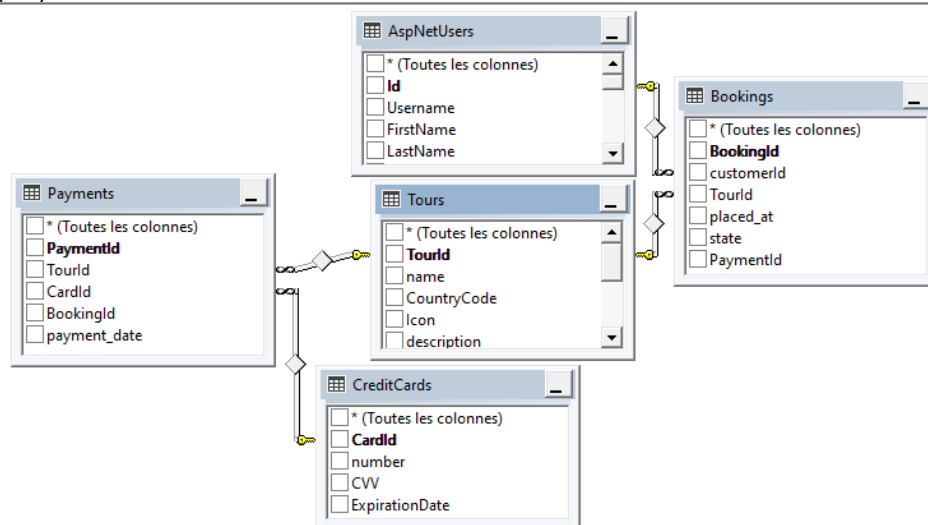
Note : The PaymentId and BookingId Foreign Keys fulfillment are done using Entity Framework.

- **Tables used for registration and login process:** Basically tables that contain user personal information as well as the role, role can be either user or admin (user responsible for managing tables in the database)

  AspNetUsers: Table used to store user information, generated by the use of ASP.NET Authorization Authentication.

  AspNetRoles: Defines the different roles a user can play.

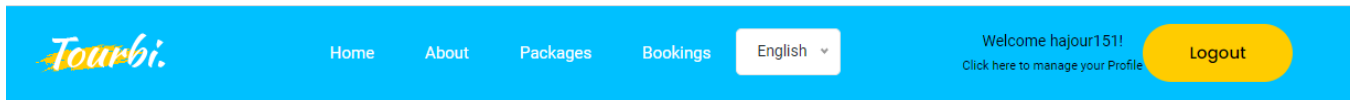 **AspNetUserRoles:** An auxiliary table that stores the user_id with the corresponding roleId
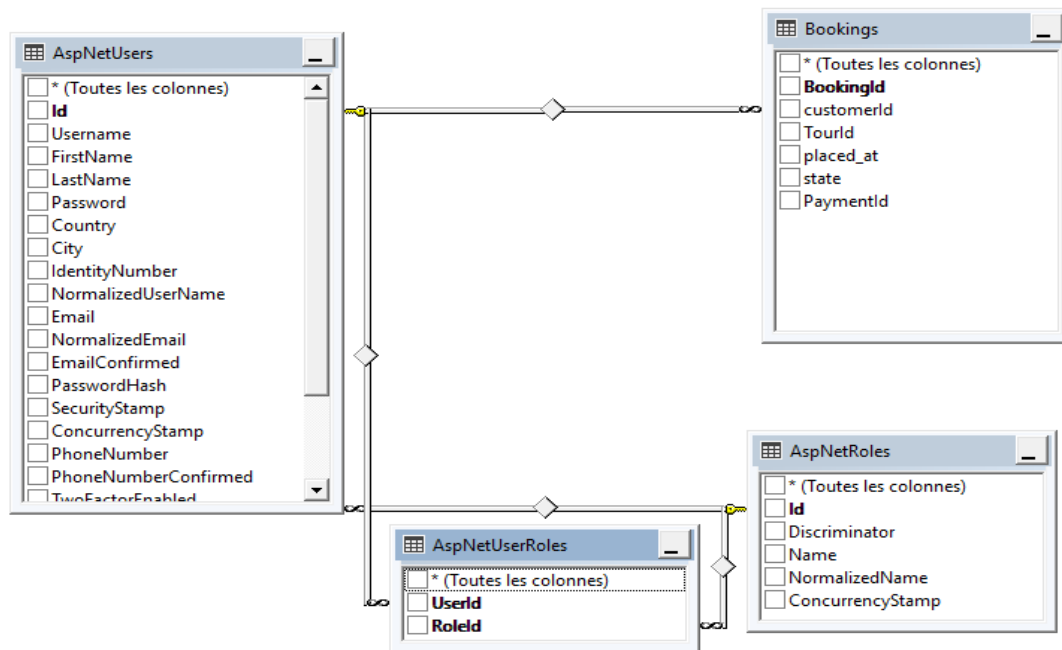
PART 2 : THE WEB APPLICATION INTERFACE
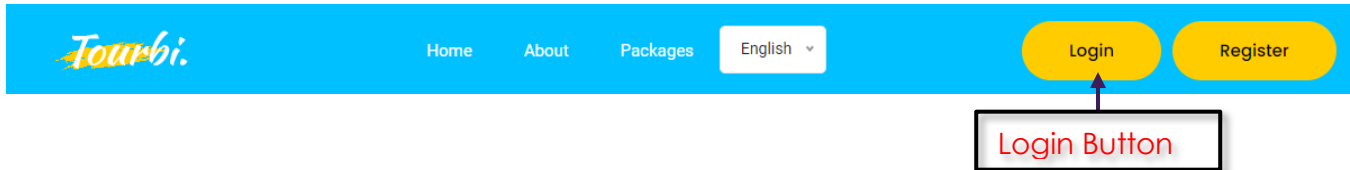
- Logged in as Admin :

- Logged in as User
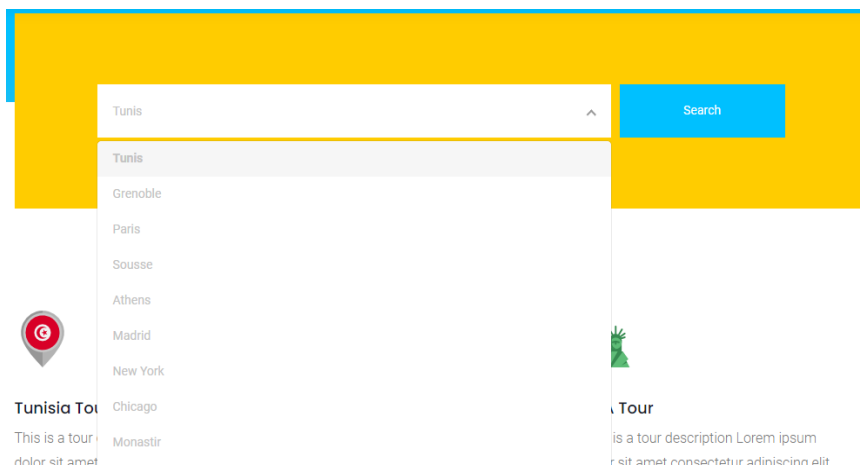

Notice that Admin Nav Link not displayed .

- Logged out

Login Button

- Turkish version of the HomePage

- Search Bar :

This Search Bar will allow users to select the City they are interested in visiting and learn more about it and access the available Tour associated with it

- ### Search Results :

Tourbi.

Home   About   Packages   English ⌄   Login   Register

Tunis

Country: Tunisia
Description: Situated on a large Mediterranean Sea gulf (the Gulf of Tunis), behind the Lake of Tunis and the port of La Goulette (Ḥalq il-Wād), the city extends along the coastal plain and the hills that surround it. At its core lies its ancient medina, a World Heritage Site. East of the medina through the Sea Gate (also known as the Bab el Bhar and the Porte de France) begins the modern city, or Ville Nouvelle, traversed by the grand Avenue Habib Bourguiba (often referred to by media and travel guides as 'the Tunisian Champs-Élysées')

Tunisia Tour

This is a tour description Lorem ipsum dolor sit amet consectetur adipiscing elit sed do eiusmod tempor incididunt ut labore et dolore magna

Read More

Select Example : Tunis
Information about the City, which Country it is located in and a picture are displayed , as well as a quick display of the available tour with a Read More button that would take the user to the tour page where he can perform a booking.(All the information about the city, Tour and ountry are retrieved dynamically from the database.

- ### Activities Display :

Tourbi.

Home   About   Packages   English ⌄   Login   Register

Most Popular Activities

A Selection Of Our Best Most Appreciated And Best Rated Activities Included In Our Tours.

Statue Of Liberty

The Statue of Liberty isn't just a huge statue of a lady, she's a symbol of hope and freedom for the millions who emigrated to the USA.

Book Now

Wander around Eiffel Towel

The sweeping views from the top of the Eiffel Tower will leave you speechless! You can see every famous monument- the Arc de Triomphe, LES INVALIDES, NOTRE DAME, and SACRE COEUR.

Book Now

Have a Camel Tour in Tunisia

The indigenous culture of Tunisia is having a Renaissance. Stepping out of obscurity, Berber architecture, cuisine and crafts are determined to claim their place in the sun – and in our travel guides.

Book Now

Retrieved from the database's Activities Table 3 Tour Activity Samples are displayed in the Homepage Using the ViewComponent of the Website with a Book Now button that allows the user to navigate to the Tour page associated with the Activity he is interested in.

our blog

Some Samples Of Our Blog Posts

The City of Lights

than Paris. The City of Light has enchanted travelers for centuries thanks to its wealth of iconic sites—places that, unfortunately, you usually have to share with countless other travelers vying to see the same thing. With that in mind, here's how to conquer everything on your list—the Jetsetter way. ;

12/31/2020 12:00:00 AM   ♡ 5   ⊙ 10

The magic Of Sousse

Did you know that the Great Mosque of Sousse is an example of the prototype which is spread and constructed across the whole Islamic West? You will see the most magnificent buildings in the city. You will be amazed by its Islamic architecture. Did you know that Sousse changed the name four times? A local charismatic guide will reveal the secrets and interesting facts about Ribat, Archaeological Museum, Dar Essid Museum, Great Mosque. ;

12/14/2020 12:00:00 AM   ♡ 45   ⊙ 2

Monastir Love

I climate to enjoy some of Tunisia's finest sand beaches and crystalline water, along with a dizzying choice of waterfront hotels and restaurants featuring both international and local cuisine. ;

5/17/2019 12:00:00 AM   ♡ 17   ⊙ 3

Retrieved from the database's BlogPosts Table 3 Post Samples are displayed in the Homepage similar way to activities using the View Component with the likes, comments and posting date displayed dynamically referring to the database

- Register Interface :

  With a special set of Requirements for the user Password :

Create a new account.

Passwords must have at least one non alphanumeric character.
Passwords must have at least one digit ('0'-'9').
Passwords must have at least one uppercase ('A'-'Z').

  The User Registration Form interface is presented in the format below :

Tourbi.

Home   About   Packages   English ⌄

Register

Create a new account.

The First Name field is required.
The Last Name field is required.
The UserName field is required.
The Email field is required.
The password and confirmation password do not
match.

Enter First Name

The First Name field is required.

Enter Last Name

The Last Name field is required.

UserName

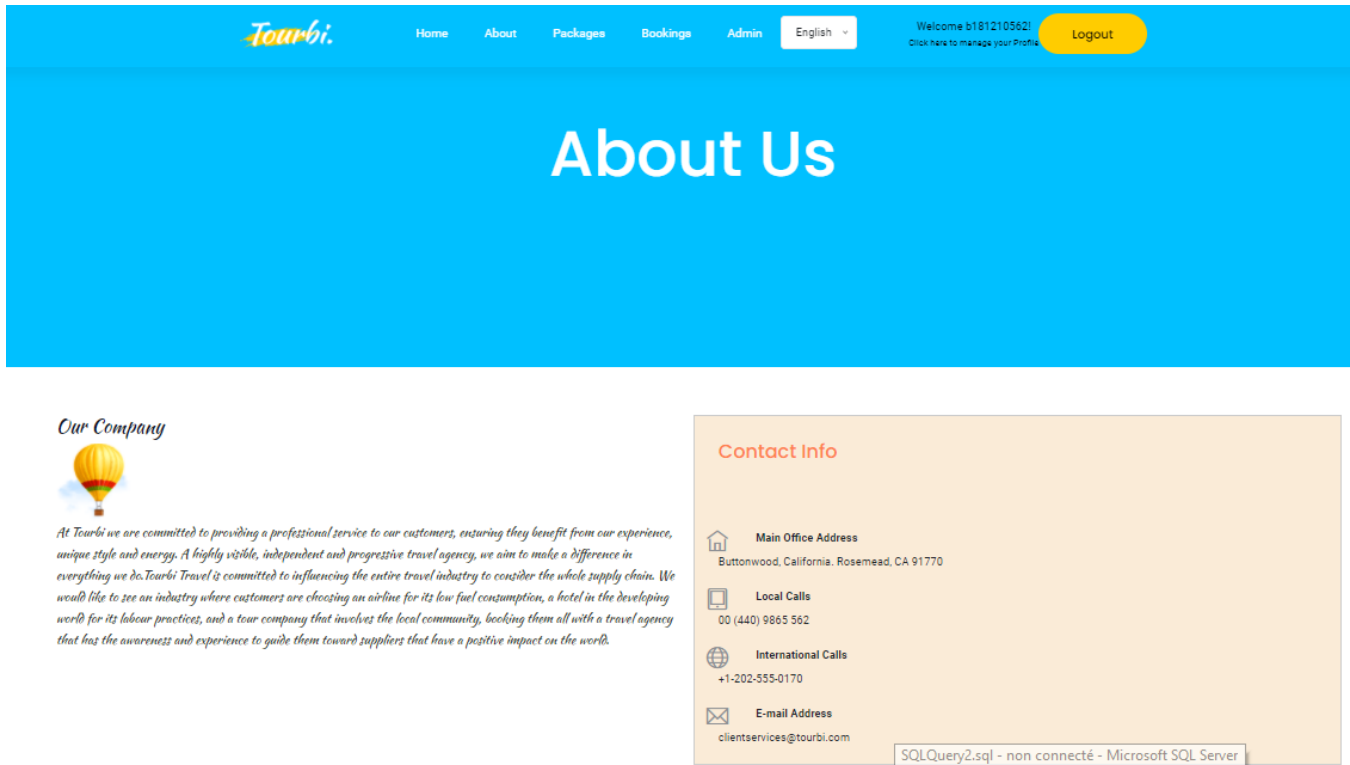The UserName field is required.

Email

The Email field is required.

Password

●●●●●●●●●

Confirm password

The password and confirmation password do not match.

Register

- About :

-Under this Section, a quick description of the company, as well as the company's contact information that were retrieved from the database are displayed .

- Bookings :

This navigation Link is only displayed if the user is logged in and under this Section the User can access information the bookings he has made, booking date, related Tour information, Booking status, as well the options of cancelling a booking or confirming an unconfirmed one by completing the payment with credit card.

1. **Booking Interface For a user who has no bookings :**
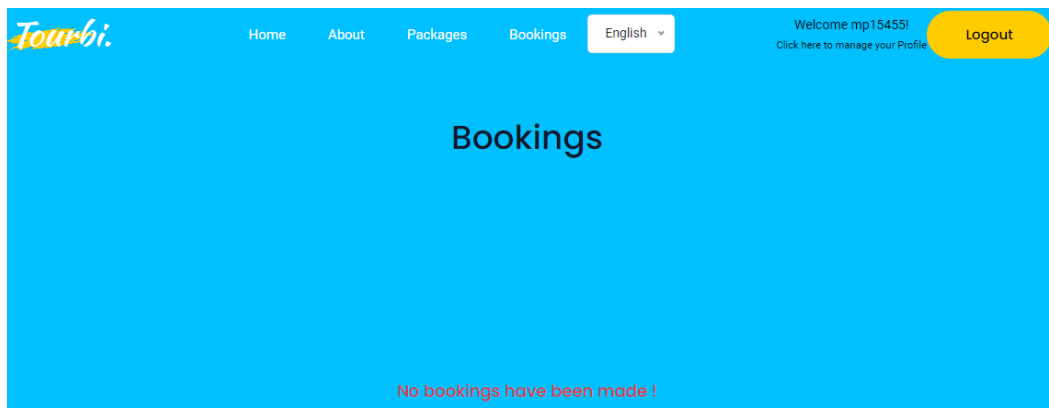
2. Booking process

To go throught this Process User will have to click on the Book now button of the Tour page.

Quick Review of Tour Page Interface :
* Tour Information

* A Carousel with Included Cities generated dynamically from the database's Cities table.

* A Carousel with Partner Hotels generated dynamically from the database's Hotels table.

Note : Each Carousel is a component with the city + country name for Citites Carousel and Hotel name + related city for Hotels Carousel displayed as the captions.
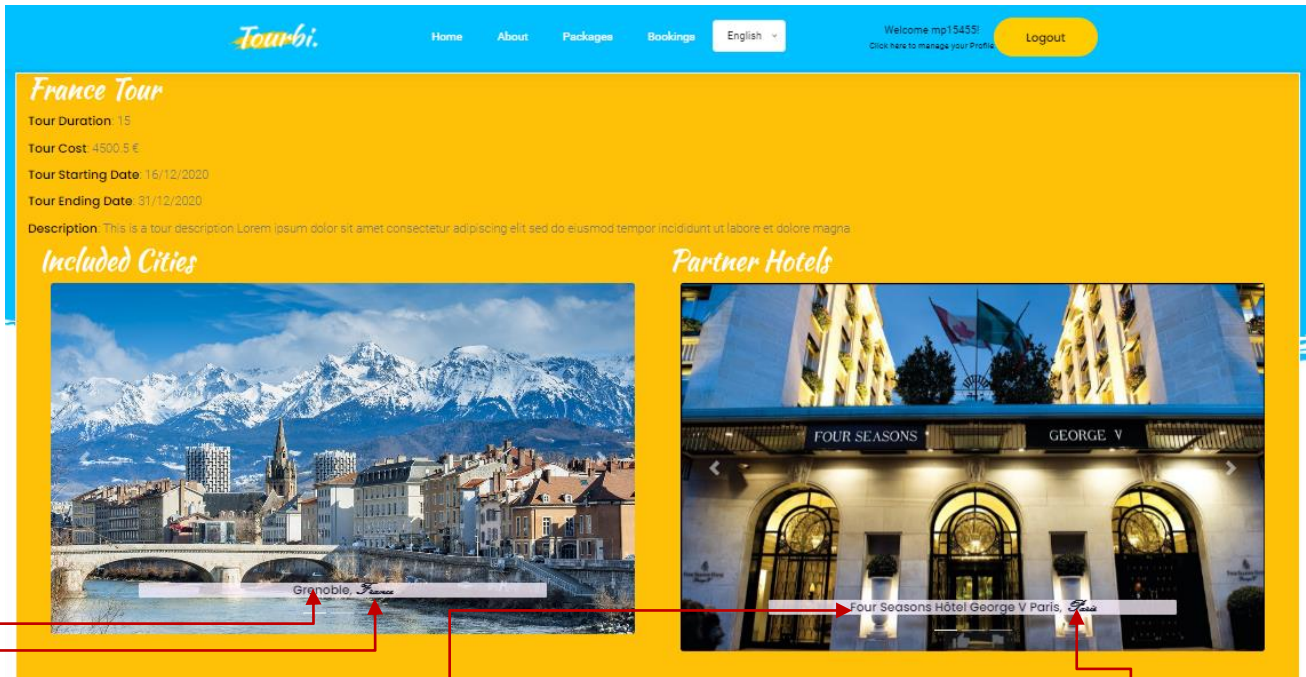
Click to proceed to booking

Confirm Booking Interface :
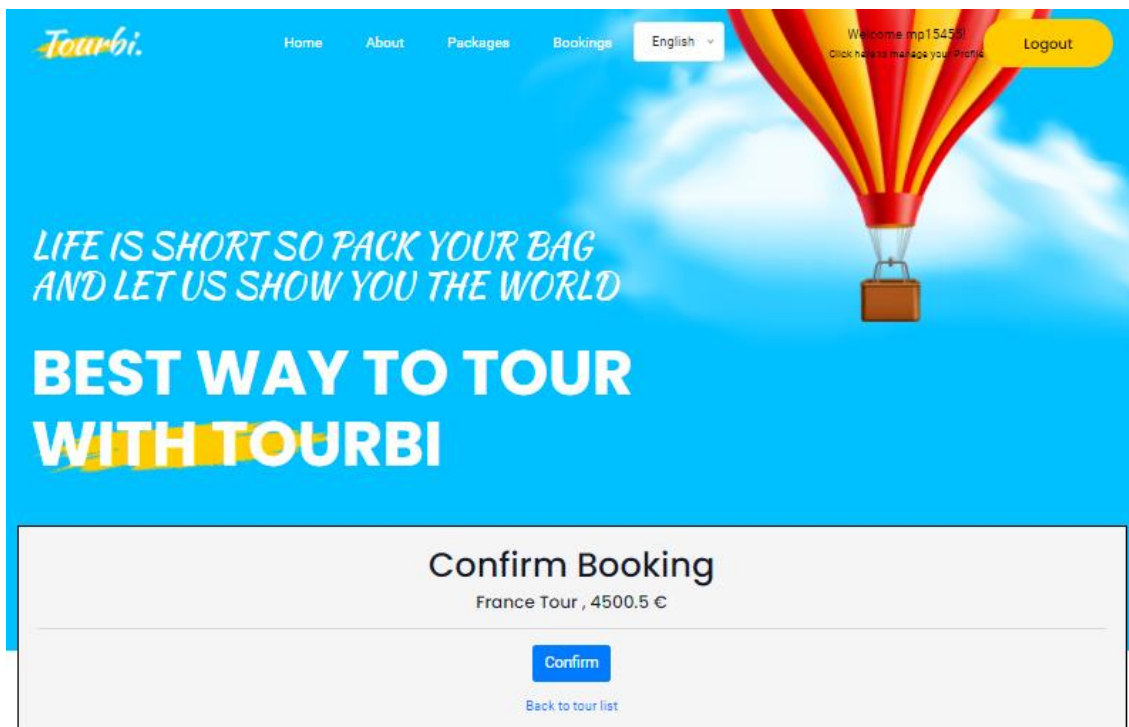
- When user clicks on Confirm, user is redirected to credit card authentification page, the booking is saved and inserted in the database with the state automatically set to unconfirmed until credit card informations are entered correctly.

Credit Card Authentication Page :

Under this section, the user can complete the Tour payment and confirm his booking, the interface consists of a form where user is asked to enter credit card information, valid credit cards are those registered in our database, user can also choose to complete payment later by clicking on " I want to pay later, Back to Tour list " . Incomplete bookings are accessible and payable via the Bookings page.

Note : number must be 16 characters and cvv 3 characters, without fulfilling these requirements user can not validate the form.

When User enters wrong credit card Information :

An error message appears and user is redirected back to credit card authentication page.

When User enters the right credit card Information :
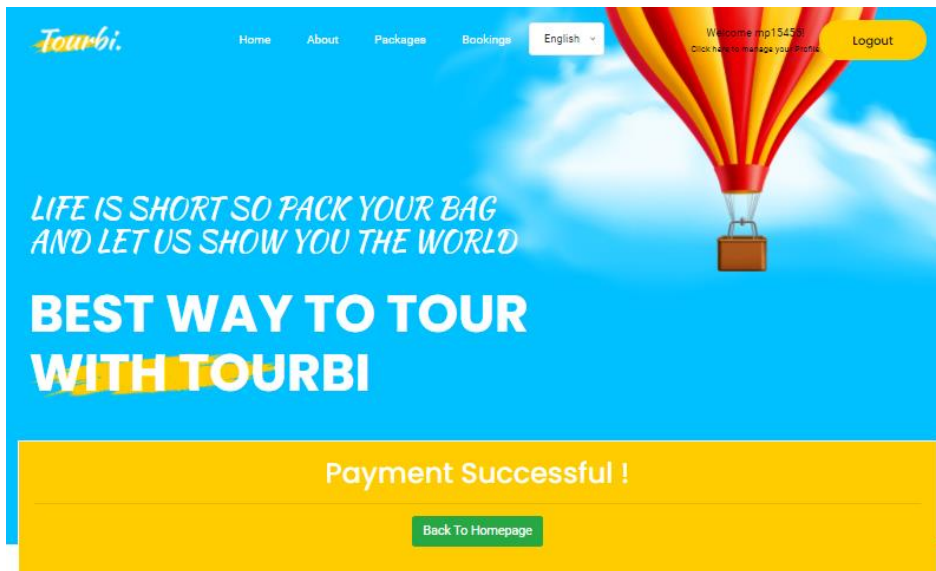
Booking state is set to confirmed, User is notified with a payment successful ! message and is invited to go back to homepage. Upon this action payment gets inserted to the database's payments table and payment date is saved.

If we take a look at Bookings Interface e now :
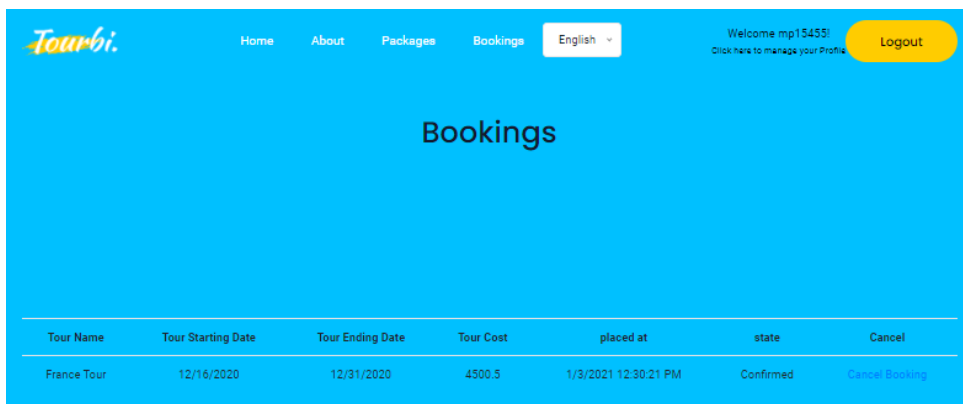
The booking is added to the bookings list and state is ,as expected, set to confirmed since payment was successful

3. **Cancel Booking :**

   ■ A confimed booking :
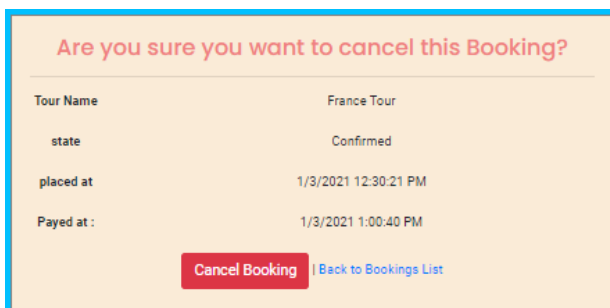
   ■ An Unconfirmed booking :

Notice that payed at is missing for the second booking since it haven't been payed. User is invited to choose to cancel booking or leave it and go back to bookings list

Are you sure you want to cancel this Booking?

Tour Name	Europe Circuit
state	Unconfirmed
placed at	1/3/2021 1:05:11 PM

Cancel Booking | Back to Bookings List

! Also if we take a look at bookings page we can see that an additional pay option is available for unconfirmed bookings and user can navigate to payment by clicking on it.

Tour Name	Tour Starting Date	Tour Ending Date	Tour Cost	placed at	state	Cancel
France Tour	12/16/2020	12/31/2020	4500.5	1/3/2021 12:30:21 PM	Confirmed	Cancel Booking
Europe Circuit	12/16/2020	12/16/2020	2000	1/3/2021 1:05:11 PM	Unconfirmed	Pay Now	Cancel Booking

- Access Denied :

    1. When a normal user tries to enter Admin page or city/tour/hotel create/edit/delete pages via the Url he gets access denied page

    denied
    You do not have access to this resource.
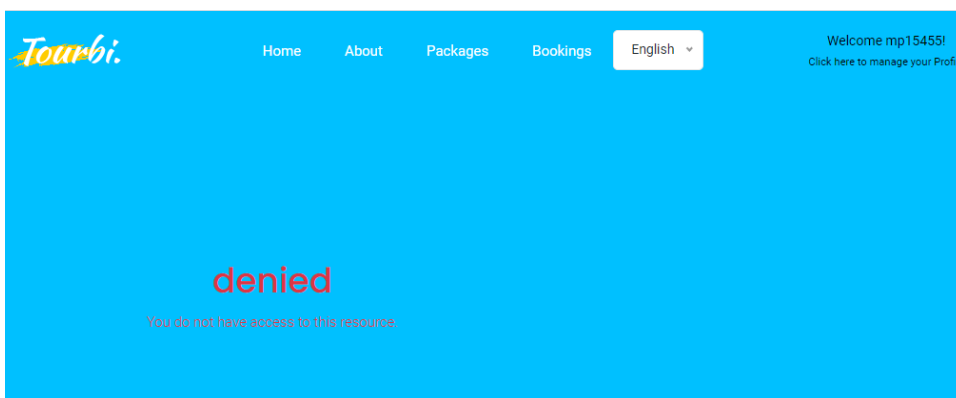
    2. Also if a user attempts to acces the payment successful page via the Url without entering the right credit card informations he gets this view and payment is not validated
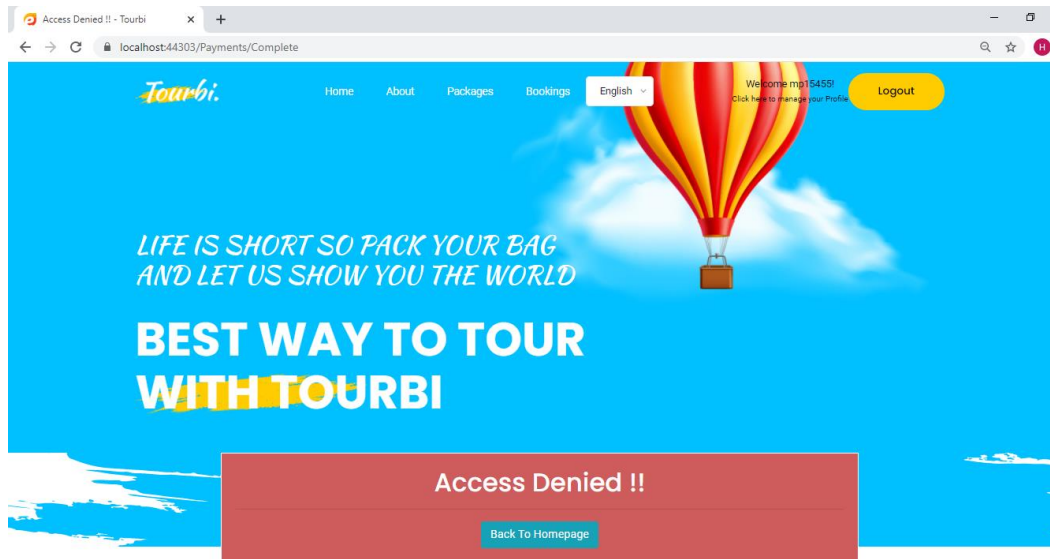
Note : if a user clicks on book now and confirm booking without being logged in he gets redirected to the login page and redirected back to confirm booking page upon successful login
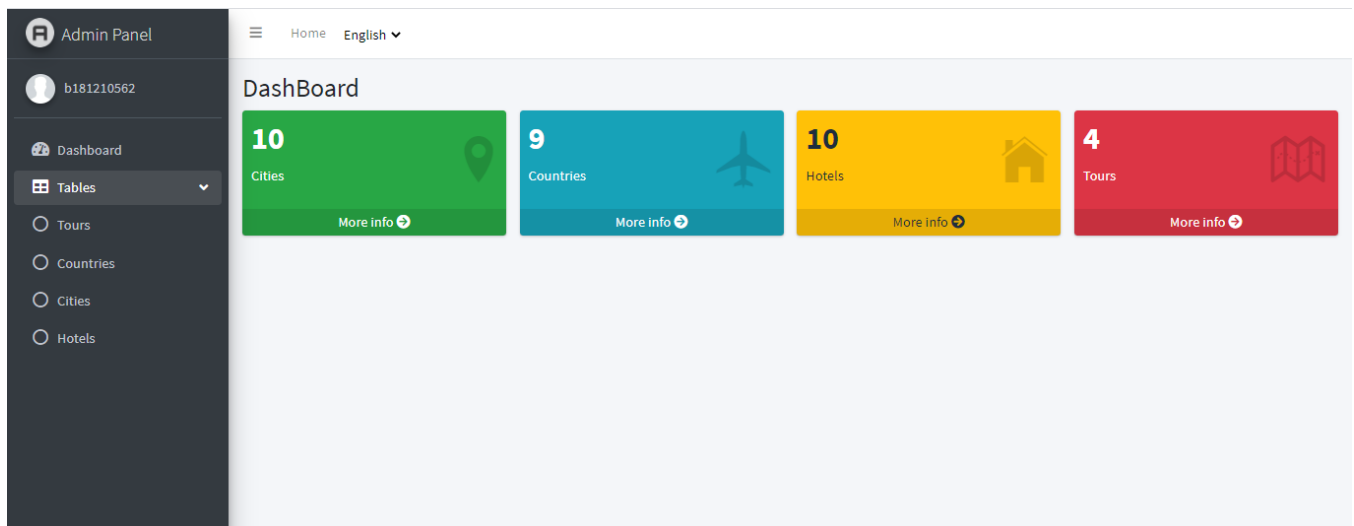
- Login Interface :
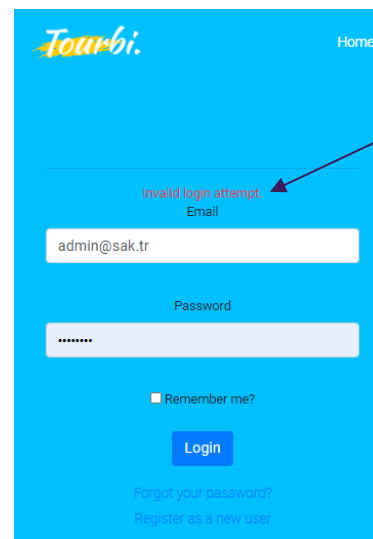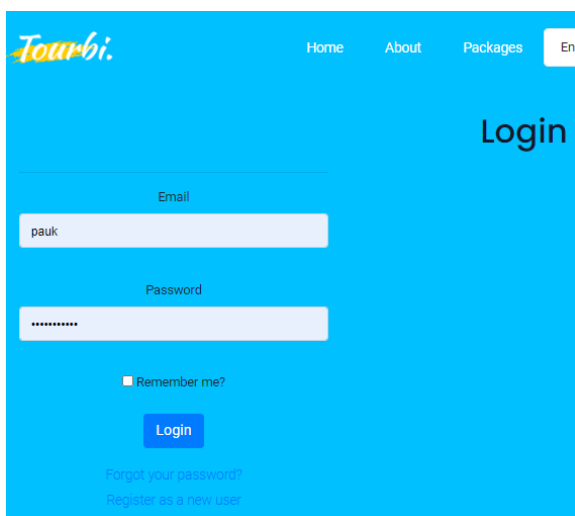
User will get the error message below upon unsuccessful login attempt

- Admin Panel : (Admin Email : b181210562@sakarya.edu.tr , Admin password : Ab*12345)

1. Interface :

User having the admin role will be able to manage the agency's products by performing Crud operations on cities, countries, Hotels and Tours tables

I.   Cities

■   Index :

■   Create :

- **Edit**

Edit City

TourId

Tunisia Tour

Country

Tunisia

City Name

Tunis

description

Situated on a large Mediterranean Sea gulf (the Gulf of Tu

photoUrl

https://www.seahf.net/img/sidibou.jpg

[Save]

Back to List

- **Delete**

Delete

Are you sure you want to delete this?

City

tour	1
Country	TUN
City Name	Tunis
description	Situated on a large Mediterranean Sea gulf (the Gulf of Tunis), behind the Lake of Tunis and the port of La Goulette (Ḥalq il-Wād), the city extends along the coastal plain and the hills that surround it. At its core lies its ancient medina, a World Heritage Site. East of the medina through the Sea Gate (also known as the Bab el Bhar and the Porte de France) begins the modern city, or Ville Nouvelle, traversed by the grand Avenue Habib Bourguiba (often referred to by media and travel guides as "the Tunisian Champs-Élysées")
photoUrl	https://www.seahf.net/img/sidibou.jpg

[Delete] | Back to List

- **Details**

☰   Home   English ⌄

Details

City

tour	1
Country	TUN
City Name	Tunis
description	Situated on a large Mediterranean Sea gulf (the Gulf of Tunis), behind the Lake of Tunis and the port of La Goulette (Ḥalq il-Wād), the city extends along the coastal plain and the hills that surround it. At its core lies its ancient medina, a World Heritage Site. East of the medina through the Sea Gate (also known as the Bab el Bhar and the Porte de France) begins the modern city, or Ville Nouvelle, traversed by the grand Avenue Habib Bourguiba (often referred to by media and travel guides as "the Tunisian Champs-Élysées")
photoUrl	https://www.seahf.net/img/sidibou.jpg

Edit | Back to List

II.   Countries:

-Index :

-Create :

-Edit :

-Delete:

III.   Tours

■   Index

- **Create**   -- **Edit**

Create
Tour

Tour Name

Icon

Description

Tour Starting Date

jj/mm/aaaa

Tour Ending Date

jj/mm/aaaa

image

Tour Cost

Create

Edit
Tour

Tour Name

Tunisia Tour

Icon

../img/icon/tunisia1.png

Description

This is a tour description Lorem ipsm dolor sit amet consectetur

Tour Starting Date

24/12/2020 00:00

Tour Ending Date

01/01/2021 00:00

image

Tour Cost

1520.55

Save

Back to List

- **Details :**

Details
Tour

Tour Name	Tunisia Tour
Description	This is a tour description Lorem ipsum dolor sit amet consectetur adipiscing elit sed do eiusmod tempor incididunt ut labore et dolore magna
Tour Starting Date	12/24/2020 12:00:00 AM
Tour Ending Date	1/1/2021 12:00:00 AM
Tour Duration	8
Tour Cost	1520.55 €
Cities	• Tunis, **Tunisia** • Sousse, **Tunisia** • Monastir, **Tunisia**

Edit | Back to List

- **Delete :**

Delete
Are you sure you want to delete this?
Tour

Tour Name	Tunisia Tour
Icon	../img/icon/tunisia1.png
Description	This is a tour description Lorem ipsum dolor sit amet consectetur adipiscing elit sed do eiusmod tempor incididunt ut labore et dolore magna
Tour Starting Date	12/24/2020 12:00:00 AM
Tour Ending Date	1/1/2021 12:00:00 AM
Tour Duration	8
Tour Cost	1520.55

Delete | Back to List

IV.   Hotels :

■ Index

Index

Create New

name	city	tour	
HOTEL YADIS IBN KHALDOUN	Tunis	Tunisia Tour	Edit Details Delete
SOUSSE PALACE HOTEL	Sousse	Tunisia Tour	Edit Details Delete
Four Seasons Hôtel George V Paris	Paris	France Tour	Edit Details Delete
Hôtel Les Trois Roses	Grenoble	France Tour	Edit Details Delete
Hostal La Bañezana - Puerta del Sol-	Madrid	Europe Circuit	Edit Details Delete
Athens 1890 Boutique Guesthouse	Athens	Europe Circuit	Edit Details Delete
The Setai Fifth Avenue	New York	USA Tour	Edit Details Delete
Central Loop Hotel	Chicago	USA Tour	Edit Details Delete
Iberostar Selection Kuriat Palace	Monastir	Tunisia Tour	Edit Details Delete
Holiday Inn Clermont Centre	Clerment-Ferrant	France Tour	Edit Details Delete

■   Create   -- Edit

Create
Hotel

name

image

City Name

Tunis

Tour Name

Tunisia Tour

Create

Back to List

Edit
Hotel

name

HOTEL YADIS IBN KHALDOUN

image

../img/hotels/tunis.jpg

City Name

Tunis

Tour Name

Tunisia Tour

Save

Back to List

■ Delete

-- Details

Delete

Are you sure you want to delete this?
Hotel

name	HOTEL YADIS IBN KHALDOUN
image	../img/hotels/tunis.jpg
city	1
tour	1

Delete | Back to List

Details
Hotel

name	HOTEL YADIS IBN KHALDOUN
image	../img/hotels/tunis.jpg
city	Tunis
tour	Tunisia Tour

Edit | Back to List

• **Manage Profile Page**

1. Change account settings

2. Manage Email

The section where users can ask for confirmation link to be sent to their email if email not confirmed or change their email address

In this section the user can update his personal information

3. Change password :

The user can update his password in this section.

- Agency Counts

With the use of View Components, this section displays the product counts of the agency, rendered dynamically from the database and displayed in this format in the homepage

The Project has come to its end. I would like to thank whoever dedicated a portion of his time to read this report or check out the actual website or codes. I have put a lot of effort on building this website and really hope it fulfilled your expectations.

Sincerely, Hajer Gafsi