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degli Studi di
Messina

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Web programming

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Content:

1. Website introduction
2. Way of implementing locally
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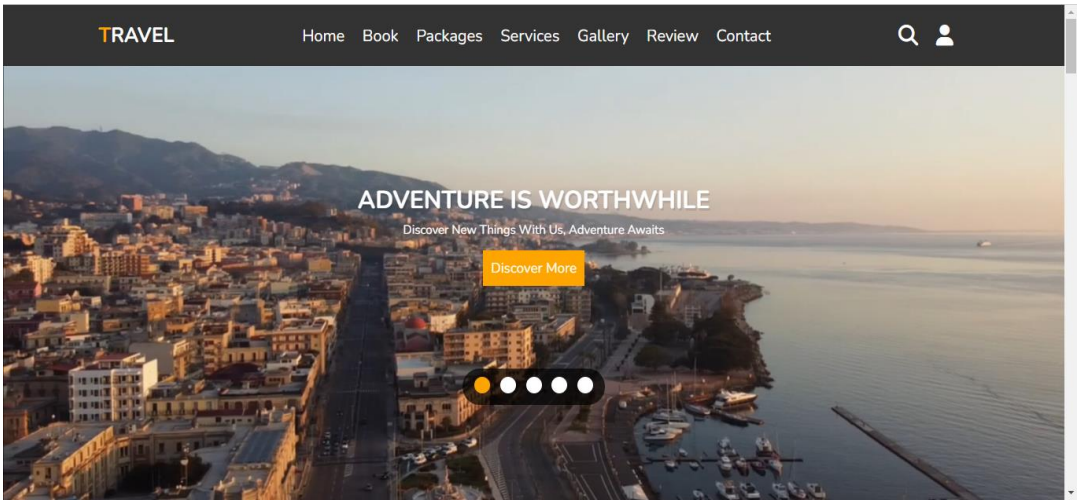
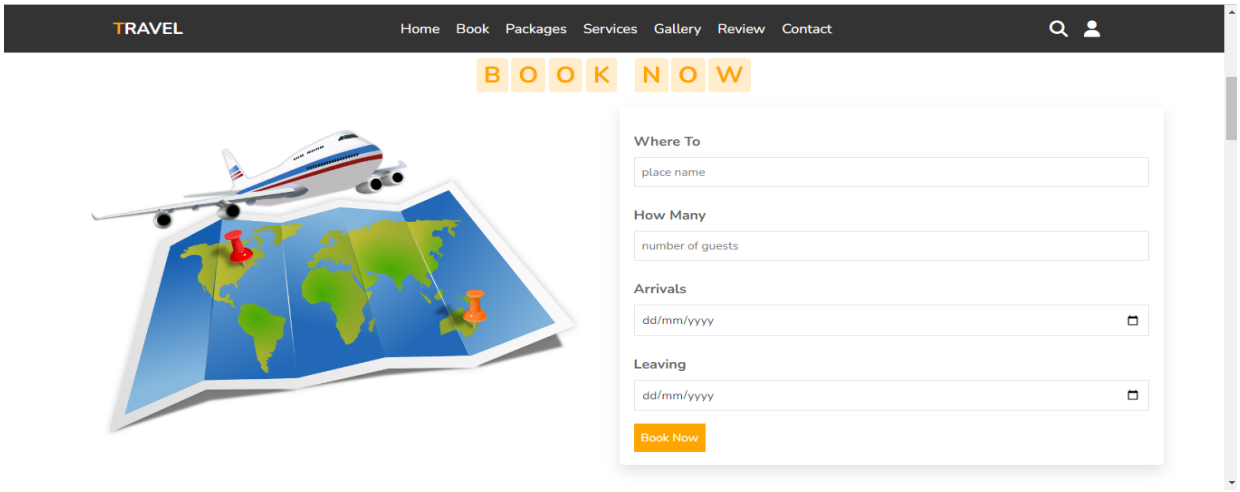
TRAVEL WEBSITE



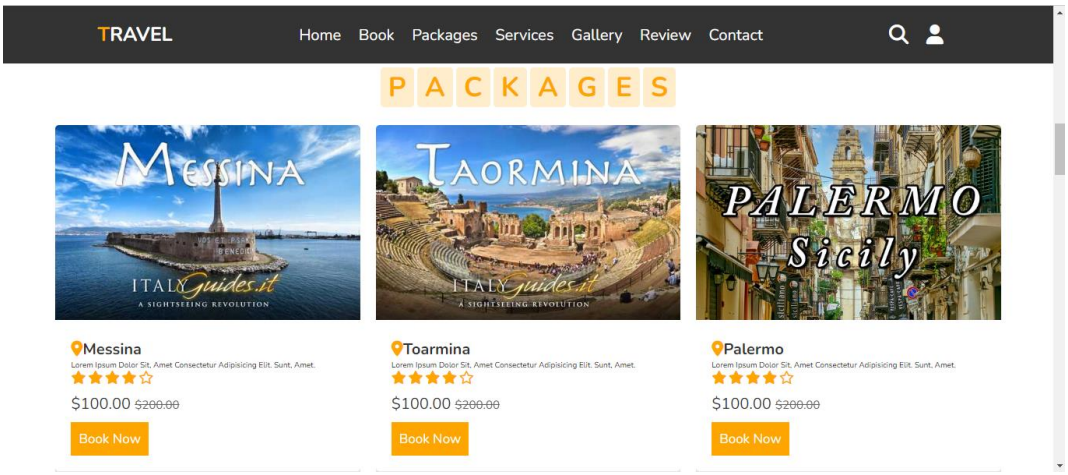
This website is made for travel booking and getting information about the travel.
where this website provide booking a travel in all the cities of the Sicily with the all the services.
in this website there are section with good designing which makes it easy and beautiful , and all sections are in the same page with quick access for all the section and that would be easy to use for people, there are 7 section in the first page where home section is the first section with a good design and beautiful videos of the destinations in the Sicily Italy.

- we have the book section which anyone can book the destination easily.

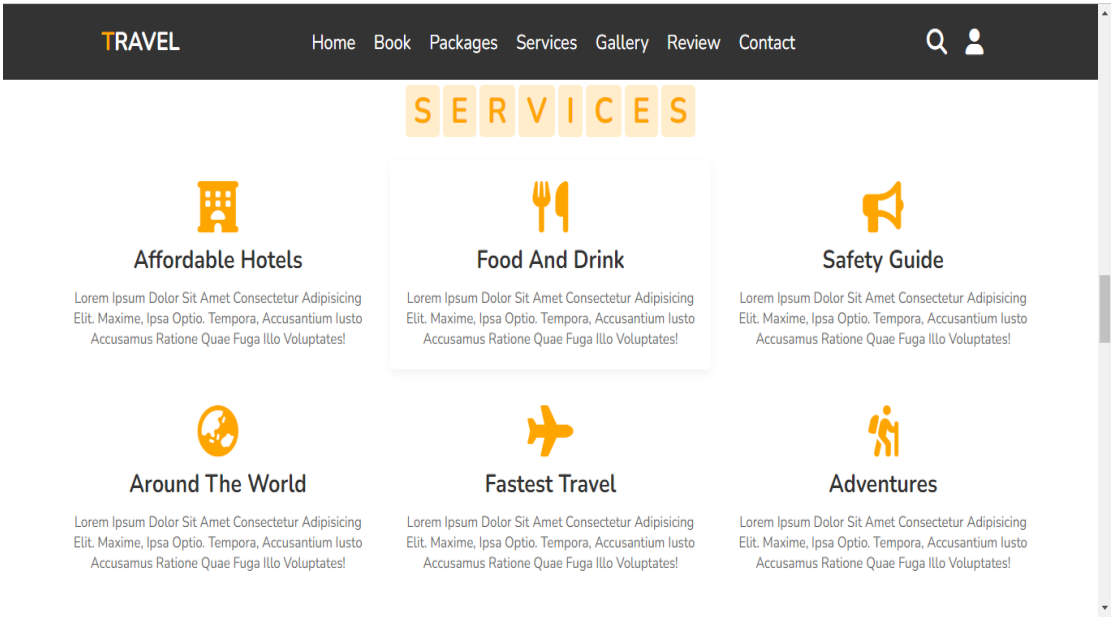


with a place name and date of arriving and leaving, but to book they have to first login on the website and while booking the website use, they registration information so the client doesn't need to write their all information.

- there is package section where clients can see the all the packages that is available on the website, and they can choose one of them and in this section, they can see the prices with the destination's information.



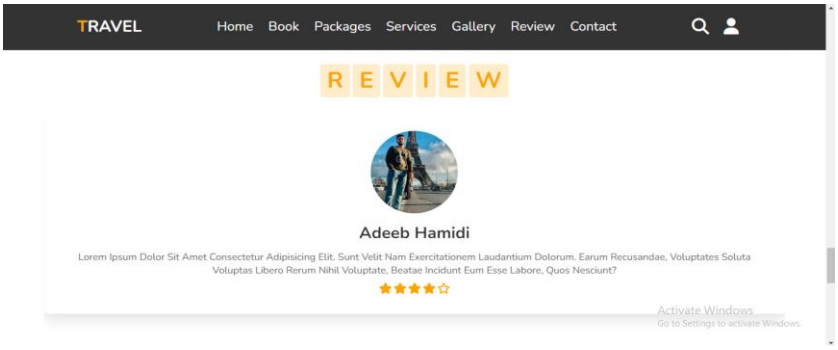
- Section of services in this section what kind of the services they will get in this travel is mentioned.



In the services section we can see the services with a beautiful design and transition, but they don't have any functionality it is for the information.

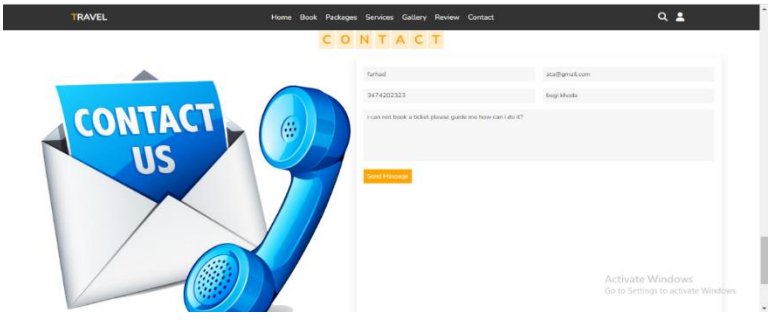
- The gallery section where client can see the more pictures of the destinations so that can help them to choose and make them get interested in the cities with their beautiful pictures.

- the review section the clients can see the peoples review how they have reviewed their experience with this website.



this review section doesn't have functionality yet because this website is created locally but we can create a section for the users to be able to write their review and when they write their review the review can be view like this with a transition and slider.

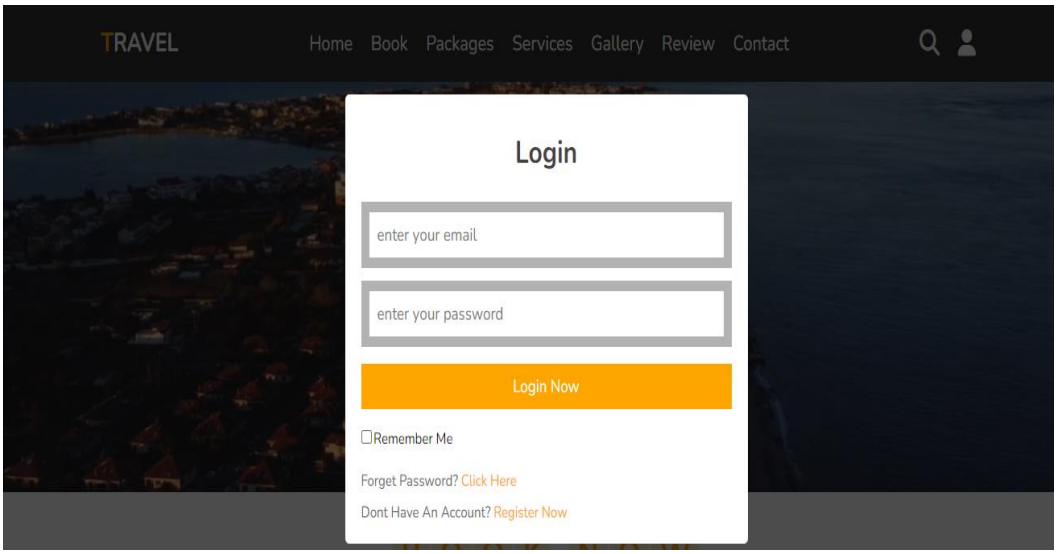
- The contact section is for clients who have any problem or any question they contact directly, and this section is n=not just for users it's for everyone so they can put their email and massage so admin of the website can see it,



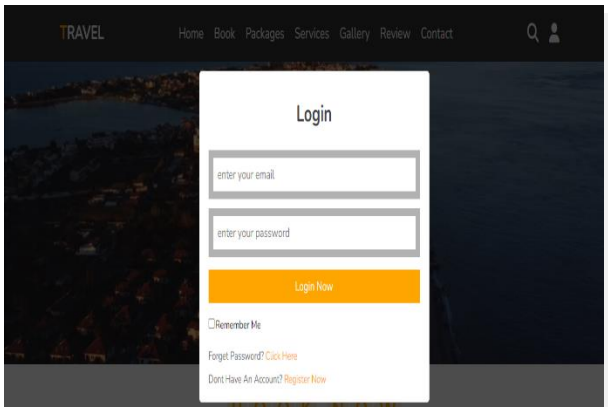
And the admin through php myadmin can access to the massage.

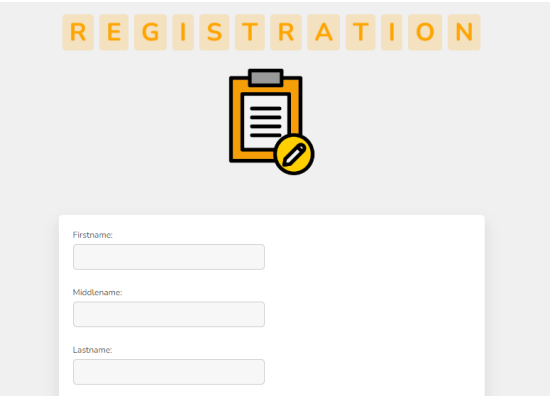
Edit Copy Delete	6	mola	mola@gmnail.com	3246236071	book	i can not book	2024-06-14 19:41:19
Edit Copy Delete	7	Mujibullah Rabin	Mujibullah.rabin@studenti.unime.it	3246236071	book	;l,mk;l	2024-06-15 16:00:24
Edit Copy Delete	8	farhad	ata@gmail.com	3474202323	begi khoda	bsdfsa	2024-06-15 18:13:28
Edit Copy Delete	9	farhad	ata@gmail.com	3474202323	begi khoda	i can not book a ticket please guide me how can i ...	2024-06-15 18:25:24

- The user login where users first register and then login in the user login page.
  registration:



From this page if the user has already account so they can just directly login with their email and password, but if they don't have account, they can just register then login.

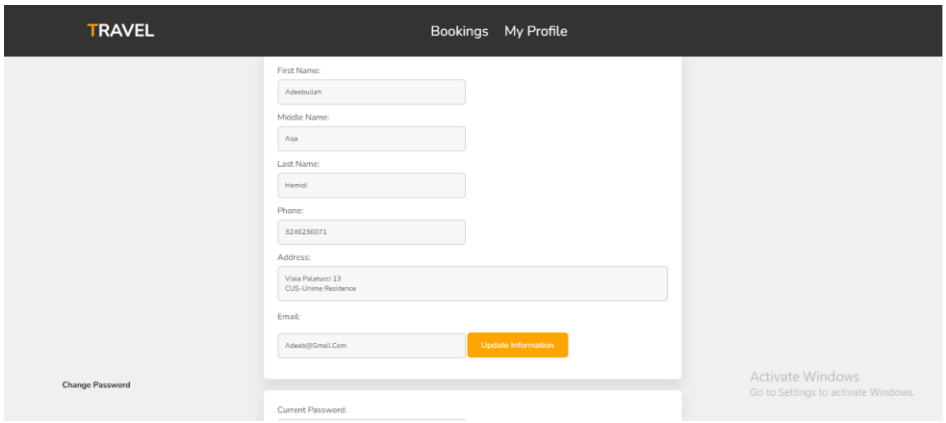




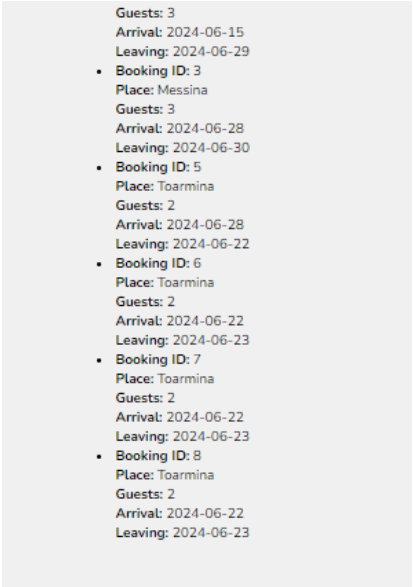
And the registration detail will be saved in the user database table:

- Here is the user page where its same as the home page but from here user have their own page which they can book with user login, and have access to their, my account option where they can change their information and update or change their password:

- And here in my account section they will be able to change their information:



And they can see their booking:



In my account section users will have the two option my profile and booking where user will be able to update their information from my profile option and from the booking option, they can see their bookings

Deploying the website locally

I have deployed the website locally using docker, creating a Docker file where connection of database and ports of services and php also SQL database is mentioned

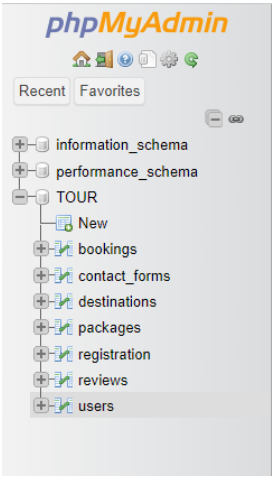
docker-compose.yml

```yaml
version: '3.8'

services:
  mysql:
    image: mysql:latest
    container_name: mysql-wp
    environment:
      MYSQL_ROOT_PASSWORD: root
      MYSQL_DATABASE: TOUR
      MYSQL_USER: RABIN
      MYSQL_PASSWORD: root
    ports:
      - "3306:3306"
    volumes:
      - ./data:/var/lib/mysql

  php:
    build:
      context: .
      dockerfile: Dockerfile
    container_name: php-wp
    ports:
      - "8082:80"
    volumes:
      - ./src:/var/www/html
    depends_on:
      - mysql

  phpmyadmin:
    image: phpmyadmin:latest
    container_name: phpmyadmin-wp
    environment:
```

So, with this will get the container for php myadmin, mysql-wp and php-wp that gives access locally in php this is better than xampp where it has more usages and with docker we can choose our own ports.

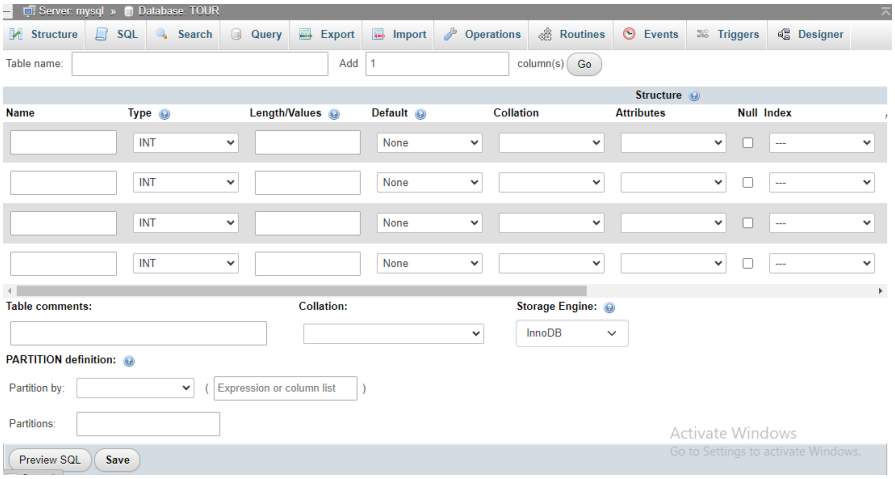
Creating the database and tables

I used phpMyAdmin to create and manage my database and connection of the database with the web-site.



Here is my database with its tables.

Creating table is provided by the php my admin from new option it will bring a page we can create

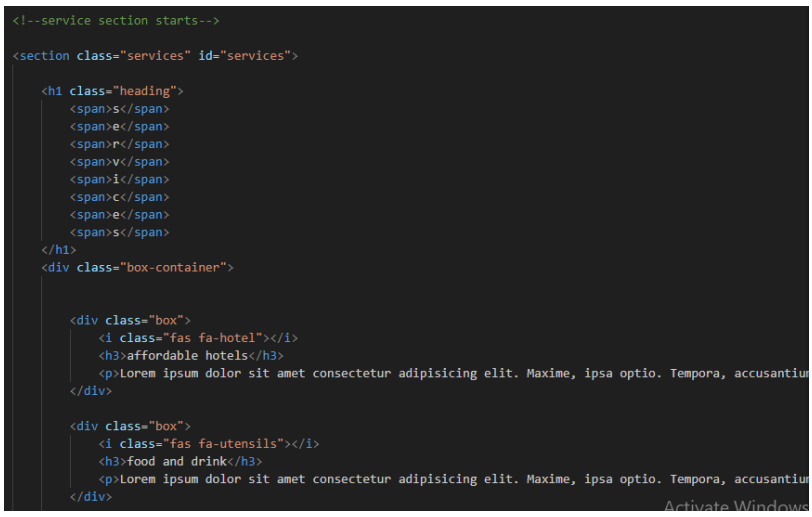


From this page we can create our tables with all the options easily and also if we want to insert the sql code simply we can click on the SQL option and write our code or copy the table code and save execute table will be created.

Explanation of codes

1.html file to create the website structure, I have an index html file that is main html file where all the details and structure of the website is mentioned like the section.

In the beginning to connect my html I used php and db connection to connect it with my database.
and the starting of the html , beside that there are links that are from java slider that makes some option slides I took them from a website that js codes are written in js script and the link is here mentioned and there is another link from the stylesheet means CSS that gives to my structure(html) the design I want.
it has header section, and footer.

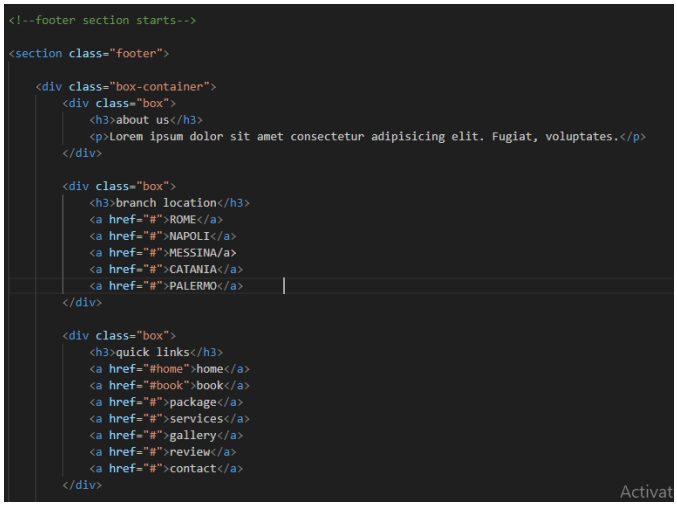


In this part of the code from the header there are the navbars each navbar have their own section which all of them are in the same html file makes them to appear in the same page.

Here are the navbar sections.

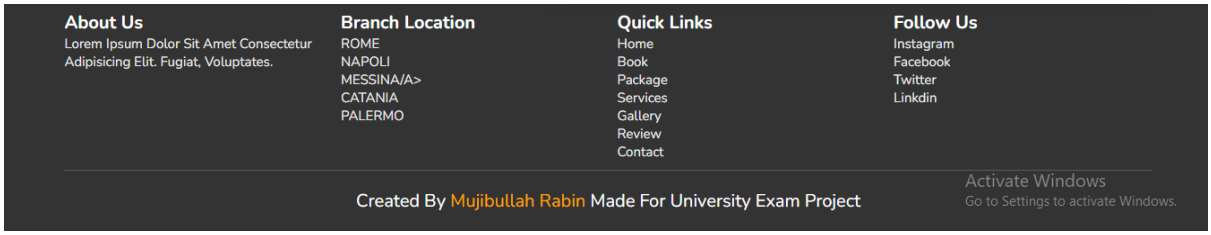
```
<header>
    <div id="menu-bar" class="fas fa-bars"></div>

    <a href="#" class="logo"><span>T</span>RAVEL</a>

    <nav class="navbar">
        <a href="#home">home</a>
        <a href="#book">book</a>
        <a href="#packages">packages</a>
        <a href="#services">services</a>
        <a href="#gallery">gallery</a>
        <a href="#review">review</a>
        <a href="#contact">contact</a>
    </nav>

    <div class="icons">
        <i class="fas fa-search" id="search-btn"></i>
        <i class="fas fa-user" id="login-btn"></i>
    </div>



    <form action="" class="search-bar-container">
        <input type="search" id="search-bar" placeholder="search here...">
        <label for="search-bar" class="fas fa-search"></label>
    </form>
```

And we have the footer section which it means the last section of the website.




```
<!--footer section starts-->

<section class="footer">

    <div class="box-container">
        <div class="box">
            <h3>about us</h3>
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Fugiat, voluptates.</p>
        </div>

        <div class="box">
            <h3>branch location</h3>
            <a href="#">ROME</a>
            <a href="#">NAPOLI</a>
            <a href="#">MESSINA/a>
            <a href="#">CATANIA</a>
            <a href="#">PALERMO</a>
        </div>

        <div class="box">
            <h3>quick links</h3>
            <a href="#home">home</a>
            <a href="#book">book</a>
            <a href="#">package</a>
            <a href="#">services</a>
            <a href="#">gallery</a>
            <a href="#">review</a>
            <a href="#">contact</a>
        </div>
```

On the website the footer section looks like this:



In this html file the js.script link is provided so the function from JavaScript will work in this structure.

```
<!--taken from swipper site-->
<script src="https://cdn.jsdelivr.net/npm/swiper@11/swiper-bundle.min.js"></script>


<!--custom js file link -->
<script src="script.js"></script>

</body>
</html>
```

CSS file

Css file is used to the design the website within its structure, like the colouring text sixes, borders, and placing the navbars and the picture.

And the link of the css file is provided to the html to access to the design written in the css by the html

```css
@import url('https://fonts.googleapis.com/css2?family=Nunito:ital,wght@0,200..1000;1,200..1000&display=swap');

:root{
    --orange: #ffa500;
}

*{
font-family: "Nunito", sans-serif;
 margin:0; padding:0;
 box-sizing: border-box;
 text-transform: capitalize;
 outline: none; border: none;
 text-decoration: none;
 transition: all .2s linear;
}

*::selection{
    background:var(--orange);
    color: #fff;
}
html{
    font-size: 62.5%;
    overflow-x: hidden;
    scroll-padding-top: 3rem;
    scroll-behavior: smooth;
}

section{
    padding:1rem 5%;
}
```

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The css code works as taking the classes from the html and giving the style as padding, fontsize,location,even if we want to give them some transitions.

```css
.login-form-container{
    position: fixed;
    top: -120%; left: 0;
    z-index: 10000;
    min-height : 100vh;
    width: 100%;
    background: rgba(0,0,0, .7);
    display: flex;
    align-items: center;
    justify-content: center;
}

.login-form-container.active{
    top: 0%;
}

.login-form-container form{
   margin: 2rem;
   padding: 1.5rem 2rem;
   border-radius: .5rem;
   background: #fff;
   width: 50rem;
}

.login-form-container form h3{
    font-size: 3rem;
    color: #444;
    text-transform: unset;
    text-align: center;
    padding: 2rem 0;
```

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And I have made separate css file for registration form just to make it easy to understand this css file have just the classes of the registration.

Java script code

Java script code gives functionalities in the html file so it can work as clicking sliding or logging in or out and all the functionalities.

And also the type of clicking like it should be pointer anything else is provided by the CSS.

```
let searchBtn = document.querySelector('#search-btn');
let searchBar = document.querySelector('.search-bar-container');
let formBtn = document.querySelector('#login-btn');
let loginForm = document.querySelector('.login-form-container');
let formclose = document.querySelector('.fas.fa-time'); // Corrected selector
let menu = document.querySelector('#menu-bar');
let navbar = document.querySelector('.navbar');
let navbavideoBtn = document.querySelector('.vid-btn');
window.onscroll = () => {
    searchBtn.classList.remove('fa-times');
    searchBar.classList.remove('active');
    menu.classList.remove('fa-times');
    navbar.classList.remove('active');
}

menu.addEventListener('click', () => {
    menu.classList.toggle('fa-times');
    navbar.classList.toggle('active');
});

searchBtn.addEventListener('click', () => {
    console.log("Search button clicked"); // Check if this message appears in the browser console
    searchBtn.classList.toggle('fa-times');
    searchBar.classList.toggle('active');
});

formBtn.addEventListener('click', () => {
    loginForm.classList.toggle('active');
});
```

In this java script the class from the html is used to connect the functionality
like the searchbtn, loginbtn, navbar, navvideobtn (that is small I con in the home used to change the videos).

and here are slider codes I took them from the website and the link was also provided in the html structure here is the js code of it

```
navbavideoBtn.forEach(btn=>{
    btn.addEventListener('click', () => {
        document.querySelector('.controls .active').classList.remove('active');
        btn.classList.add('active');
        document.querySelector('#video-slider').src = btn.getAttribute('data-src');
    });
});



var swiper = new Swiper(".review-slider", {
    spaceBetween: 20,
    loop:true,
    autoplay: {
        delay: 2500,
        disableoninteraction: false,
    },
    breakpoints: {
        640: {
            slidesperView: 1,
        },
        768: {
            slidesperView: 2,
        },
        1024: {
            slidesperView: 3,
        },
    },
```

php files:

the first php file is db_connection php file it connects database with the php filea.

The user and password of the database is provided in this code

- Dashboard_user.php that is php file which also have html it this php file Is main page that have all the section navbars except login which instead of login its logout option.
  when users login the page after registration they will see this php file with its html.

Here this php file is like index html for user and I have added my account php that have access to user to users' information. And any options we can add or delete it will different than index html means home page.

- And login.php that connects the user email and password while logging in as user, it checks from the database if the user and password exist it logs in.

```php
<?php
ob_start();

session_start();
require('db_connection.php');

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $email = sanitize($_POST['email']);
    $password = $_POST['password'];

    $sql = "SELECT * FROM users WHERE email = ?";
    if ($stmt = $conn->prepare($sql)) {
        $stmt->bind_param("s", $email);
        $stmt->execute();
        $result = $stmt->get_result();

        if ($result->num_rows > 0) {
            $row = $result->fetch_assoc();
            if (password_verify($password, $row['password'])) {
                $_SESSION['user_id'] = $row['id'];
                $_SESSION['username'] = $row['username'];
                $_SESSION['email'] = $row['email'];
                header("Location: user_dashboard.php");
                exit();
            } else {
                echo "Incorrect password. <a href='index.html'>Back to Login</a>";
```

- And we have the logout php file to logout and when we logout we will be redirected to the index html means the home page and user will be logged out

- Registration php file is used to store and connect the registration file in the database as user and the data will be stored in the user table so after registration the user wants to login it will check from user database by login php file if it exists it will login.
- Booking php file this php file connects the booking section with the database which it stores the booking in booking database, while if the client is not logged in the php file will give a massage that you are not logged in so to book user must register if already register have to login as user to be able to book.

src > booking.php

```php
<?php
session_start();
require('db_connection.php');

function handle_booking() {
    global $conn;

    if (!isset($_SESSION['user_id'])) {
        die("User is not logged in.");
    }

    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $place_name = sanitize($_POST['place_name']);
        $number_of_guests = (int)$_POST['number_of_guests'];
        $arrival_date = sanitize($_POST['arrival_date']);
        $leaving_date = sanitize($_POST['leaving_date']);
        $user_id = $_SESSION['user_id'];

        // Prepare the SQL statement
        $query = "INSERT INTO bookings (place_name, number_of_guests, arrival_date, leaving_date, user_id)
                  VALUES (?, ?, ?, ?, ?)";
        if ($stmt = $conn->prepare($query)) {
            $stmt->bind_param("sissi", $place_name, $number_of_guests, $arrival_date, $leaving_date, $user_id);
            if ($stmt->execute()) {
                echo "Booking successful.";
            } else {
                echo "Error: " . $stmt->error;
            }
            $stmt->close();
        } else {
            echo "Error preparing statement: " . $conn->error;
```

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- Contact php file in the website there is contact section this section also needs to connect with the database so this php file connect it with database and when someone wants send an email they have to provide their email address and the name and surname and the massage they want to send, the massage will be stored in the contact table, and in this section unlike booking every-one can send massage.

- Change password php file this php file fethch the data from the database and make it available in user login to be able to change their password from the website.

- User profile php this is like change password php file because it also fetches the data from the database and gives possibility to the user to change their information from their account and this information are from registration php while they registered, they are fetched and make it possible to change their data and access.

In conclusion this website I used to book and have information about the places client want to travel this website is easy and have section with easy access, this website is made by html , CSS , JavaScript and the php, the database is made by SQL and phpMyAdmin with different table to store the website data and also fetch data to user to be able to modify the information and change the password.