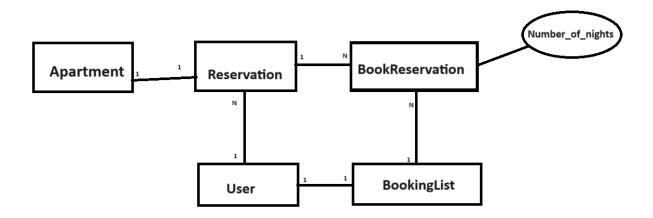
Лабораториска вежба 2 (Група Б) / Laboratory exercise 2 (Group B)

Апликацијата ги опфаќа следниве карактеристики:

- Додавање на Апартман.
- Правење Резервација за даден апартман.

Дополнително, апликацијата треба да ги опфаќа следните карактеристики:

- Нов контролер: BookingListController, такашто треба да соддржи функција "BookNow()" со цел да ја испразни листата и да направи нарачка за резервација.
- Додавање и бришење на Резервации во BookingList.
- Преглед на Резервации во BookingList со целосната сума, пресметана како цена за ноќевање * број на ноќевања.



INTEGRATED SYSTEMS CHECKPOINTS

Presented By Berat

STEP 1: MODELS

```
public class Reservation
{
     [Key]
     public Guid Id { get; set; }
     [Required]
     public DateTime Check_in_date { get; set; }
     public Guid ApartmentId { get; set; }
     public Apartment? Apartment { get; set; }
     public virtual BookingApplicationUser? User { get; set; }
     public string? UserId { get; set; }
}
```

```
public class BookReservation
{
    [Key]
    public Guid Id { get; set; }

    [Required]
    public int Number_Of_Nights { get; set; }

    public Reservation? Reservation { get; set; }

    public Guid? ReservationId { get; set; }

    public BookingList? BookingList { get; set; }

    public Guid? BookingListId { get; set; }

    public BookingApplicationUser? User { get; set; }

    public string? UserId { get; set; }
}
```

```
public class BookingList
{
      [Key]
      public Guid Id { get; set; }
      [Required]
      public ICollection<BookReservation>? BookReservations { get; set; }
      [Required]
      public int Full_Price { get; set; }
      public BookingApplicationUser? User { get; set; }
      public string? UserId { get; set; }
}
```

//Reservation acts as a model that shows users what they can book
//BookingReservation acts as a shopping cart, users can add to cart their bookings
//BookingList acts as a order, when users checkout, all their momentarily bookings
from cart get listed here

STEP 2: VIEW MODIFICATIONS

After the models have been migrated and database updated, create controllers by scaffolding and than modify the **Shared/Layout.cshtml** to show button for the new models in the nav-bar

Now modify the Reservation View to display a 'Book Now' button, to do this use the button that displays Details page, and we modify it below for our use

Index

Create New

Check_in_date	Apartment	
4/11/2024 12:12:00 PM	FEIT	Edit Book Now Delete
4/4/2024 12:12:00 PM	FINKI	Edit Book Now Delete

```
<a asp-action="Details" asp-route-id="@item.Id">
<button type="submit" class="btn btn-danger">Book Now</button></a> |
```

Now button redirects to Details view, so modify the details view and add input for how many nights a user wants to book apartment

Details

Reservation

Check_in_date 4/11/2024 12:12:00 PM

Apartment FEIT

1 Add to Cart

Edit | Back to List

STEP 3: CONTROLLERS

Now create a AddToCart method which will take ReservationId and Number_Of_Nights from the form

```
//POST: Reservations/AddToCart/5
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> AddToCart(Guid ReservationId, int Number_Of_Nights)
    var reservation = await _context.Reservations.FindAsync(ReservationId);
    var userId = User.FindFirstValue(ClaimTypes.NameIdentifier);
    if(userId == null)
    {
        return RedirectToAction("Login", "Account");
    //Make a BookReservation
    var BookReservation = new BookReservation
    {
        Id = Guid.NewGuid(),
        ReservationId = reservation.Id,
        UserId = userId,
        Number_Of_Nights = Number_Of_Nights
    };
    //Add to the database
    _context.Add(BookReservation);
    await _context.SaveChangesAsync();
    return RedirectToAction(nameof(Index));
```

Congrats, the cart system should work, now before moving to the Checkout system, create button for it on BookingList Index view



Now create the Checkout method on BookingListController

```
// POST: BookingLists/Checkout
 [HttpPost]
 [ValidateAntiForgeryToken]
 public async Task<IActionResult> Checkout()
 {
     // Find logged-in user authenticated
     var userId = User.FindFirstValue(ClaimTypes.NameIdentifier);
     if (userId == null)
         return RedirectToAction("Login", "Account"); // Redirect login if user not authenticated
     }
         var bookingList = new BookingList
             Id = Guid.NewGuid(),
             UserId = userId.ToString(),
             BookReservations = context.BookReservation.Where(b => b.UserId == userId).ToList(),
             Full_Price = _context.BookReservation.Where(b => b.UserId == userId).Sum(b =>
b.Reservation.Apartment.Price_per_night * b.Number_Of_Nights)
         };
        _context.Add(bookingList);
     _context.BookReservation.RemoveRange(_context.BookReservation.Where(b => b.UserId == userId));
     await _context.SaveChangesAsync();
     return RedirectToAction(nameof(Index));
 }
```

