LABORATORY ASSIGNMENT №3

Partial Views. Navigation. Filtering. Sessions

Goal: Gain skills in working with partial views, learn to work with query string parameters, and acquire skills in working with sessions.

Workflow:

Task 1. Create Partial View

Зав. каф.

First I've created partial view, I it looks like event card.

```
@model TicketBookingWebsite.Models.Event
<div class="card mb-3 shadow-sm">
   <div class="card-body">
      <h5 class="card-title">@Model.Name</h5>
      <i class="bi bi-calendar-event"></i> @Model.Date.ToString("dd MMMM, yyyy")
<br>
         <i class="bi bi-geo-alt"></i> @Model.Location
      @Model.Description
      <i class="bi bi-ticket"></i> @Model.AvailableTickets tickets available
      <span class="badge bg-primary fs-6">$@Model.Price</span>
      </div>
</div>
```

Next step was importing it to page, so I can display it. Here is how I modified my Index.cshtml:

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Task 2. Category Navigation

First I've created NavigationMenuViewComponent.cs:

```
using Microsoft.AspNetCore.Mvc;
using TicketBookingWebsite.Data;
using System.Linq;
namespace TicketBookingWebsite.Components
    public class NavigationMenuViewComponent : ViewComponent
        private readonly WebsiteDbContext _context;
        public NavigationMenuViewComponent(WebsiteDbContext context)
            _context = context;
        public IViewComponentResult Invoke()
            var categories = _context.Events
                .Select(e => e.Location)
                .Distinct()
                .OrderBy(c => c)
                .ToList();
            return View(categories);
        }
    }
}
```

Then I've created the component is

Views/Shared/Components/NavigationMenu/Default.cshtml:

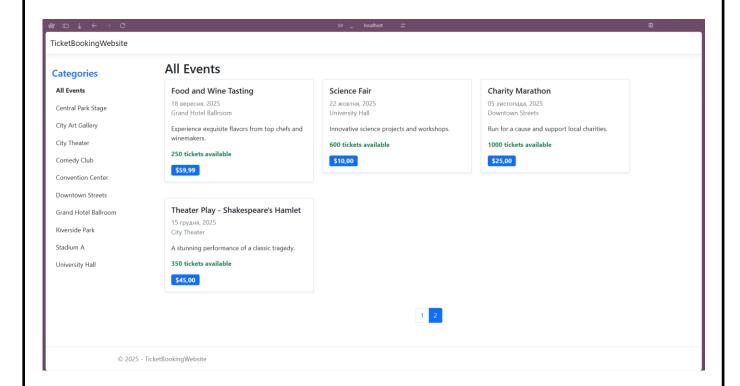
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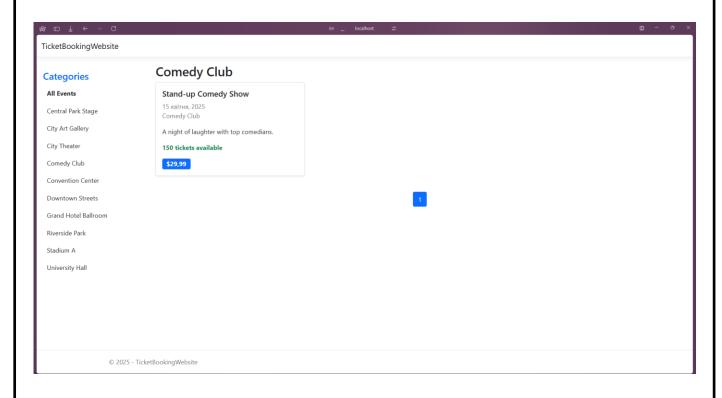
Added it to _Layout.chtml and modified the controllers Index method:

```
public IActionResult Index(string? category, int page = 1)
    var filteredEvents = string.IsNullOrEmpty(category)
        ? repository. Events
        : repository.Events.Where(e => e.Location == category);
    var totalEvents = filteredEvents.Count();
    var events = filteredEvents
        .OrderBy(e => e.Date)
        .Skip((page - 1) * PageSize)
        .Take(PageSize);
    var viewModel = new EventListViewModel
        Events = events,
        PagingInfo = new PagingInfo
            CurrentPage = page,
            TotalItems = totalEvents,
            ItemsPerPage = PageSize
        CurrentCategory = category
    };
    return View(viewModel);
}
```

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Here is the result:





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Task 3. Sessions

Number on group list	Project Name	Feature Description	
1	Event Ticket Booking Website	Use sessions to temporarily store selected event tickets before checkout, preventing loss of selection if the user navigates away.	

Firstly I added this lines to Program.cs to include sessions:

return value == null ? default(T) : JsonConvert.DeserializeObject<T>(value);

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}

var value = session.GetString(key);

To save something in session, firstly I need to create thing that I will save. So I decided to create Cart, where all selected event tickets will be stored before checkout.

To start I've created CartViewModel and cart page:

```
using TicketBookingWebsite.Models;
namespace TicketBookingWebsite.ViewModels
   public class CartViewModel
       public List<Event> Events { get; set; }
       public decimal TotalPrice { get; set; }
}
@model TicketBookingWebsite.ViewModels.CartViewModel
<h2>Your Cart</h2>
@if (Model.Events != null && Model.Events.Count > 0)
   <thead>
              Event
              Price
          </thead>
       @foreach (var item in Model.Events)
              @item.Name
                 @item.Price.ToString("C")
              <h3>Total: @Model.TotalPrice.ToString("C")</h3>
   <a href="@Url.Action("ClearCart")" class="btn btn-danger">Clear Cart</a>
   <a href="@Url.Action("Checkout")" class="btn btn-primary">Proceed to Checkout</a>
}
else
{
   Your cart is empty.
}
```

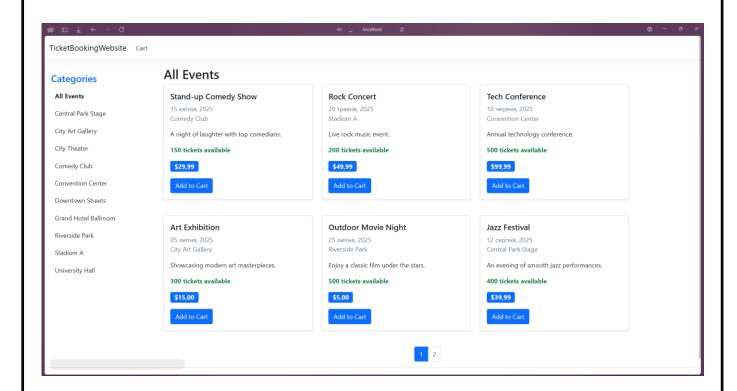
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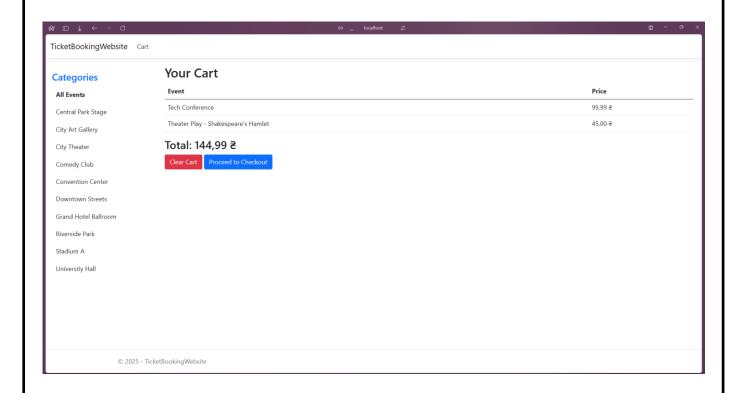
```
Added Add to Cart button in event summary:
```

```
<a href="@Url.Action("AddToCart", "Home", new { eventId = Model.Id })" class="btn btn-
primary">
    Add to Cart
</a>
      Modified HomeController, added handlers for Cart:
    public IActionResult AddToCart(int eventId)
        var selectedEvent = repository.Events.FirstOrDefault(e => e.Id == eventId);
        if (selectedEvent != null)
        {
            var cart = HttpContext.Session.GetObjectFromJson<List<Event>>("Cart") ?? new
List<Event>();
            cart.Add(selectedEvent);
            HttpContext.Session.SetObjectAsJson("Cart", cart);
        }
        return RedirectToAction("Index");
    }
    public IActionResult Cart()
        var cart = HttpContext.Session.GetObjectFromJson<List<Event>>("Cart");
        var viewModel = new CartViewModel
            Events = cart,
            TotalPrice = cart?.Sum(e => e.Price) ?? 0
        };
        return View(viewModel);
    public IActionResult ClearCart()
        HttpContext.Session.Remove("Cart");
        return RedirectToAction("Cart");
    }
```

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Result:





Conclusion: I gained skills in working with partial views, learned how to work with query string parameters, and acquired skills in working with sessions.

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