

Himalayan Everest Insurance (HEI) - Blog

Project Overview:

The HEI-Blog project is developed using the .Net Core framework, incorporating the Entity Framework and following the code-first approach.

Main Project (Blog) Dependencies:

Framework:

.NET Core 6

Microsoft.AspNetCore.App

Packages:

Bootstrap (version 5.2.3)

Microsoft.EntityFrameworkCore (version 7.0.5)

Microsoft.EntityFrameworkCore.Tools (version 7.0.5)

Npgsql.EntityFrameworkCore.PostgreSQL (version 7.0.4)

Npgsql.EntityFrameworkCore.PostgreSQL.Design (version 1.1.0)

Reference Project (BlogDbContext) Dependencies:

Packages:

Microsoft.EntityFrameworkCore (version 7.0.5)

Microsoft.EntityFrameworkCore.Tools (version 7.0.5)

Npgsql.EntityFrameworkCore.PostgreSQL (version 7.0.4)

Npgsql.EntityFrameworkCore.PostgreSQL.Design (version 1.1.0)

Microsoft.Extensions.Identity.Stores (version 6.0.15)

Microsoft.AspNetCore.Identity.EntityFrameworkCore (version 6.0.15)

To ensure separation of concerns and modularity, this project consists of four additional reference projects, all of which should be referenced in the main project (Blog).

The HEI-Blog project allows users to create, update, view, and delete content within the blog based on their assigned roles. The project comes with three predefined roles: Admin, HR, and Normal User. These roles are pre-seeded during migration, along with their respective email addresses and passwords, allowing users to log in without signing up separately.

Users can create an account and subsequently log in to interact with the blog. Role-based actions are implemented to prevent unauthorized access and unintentional modification of the project and its content.

Default User and Roles:

During the development of the project, the following roles and login credentials were pre-seeded:

Admin: (Role: Admin)

Email: admin@gmail.com

Password: Admin@123

Role Description: Admin has full access to create, view, update, and delete blogs.

HR: (Role: HR)

Email: hr@gmail.com

Password: HumanResource@123

Role Description: HR has authorization to create, update, and view all posts, but is not authorized to delete any posts.

User: (Role: User)

Email: user@gmail.com

Password: User@123

Role Description: This role represents a normal user. After signing in, the user is only permitted to create blogs and view posts. The User role does not have authorization to edit or delete posts.

Sign Up Process:

Normal users can create their own accounts through the designated page. By default, when signing up, users are not assigned any specific role. As a result, normal users can only view the blogs and add new blog posts. They do not have access to modify or delete existing posts.

During the signup process, the provided email for creating an account should be both verified and unique. Pre-seeded emails cannot be used for signing up.

In addition, the password entered during signup should meet the following requirements:

Include at least one capital letter

Include one special character

Include one digit

Be at least 8 characters long, containing a combination of alphanumeric characters.

These password requirements ensure a certain level of security for user accounts and help protect against unauthorized access.

Execution Process :

Requirements:

- Vs-Studio(2022) installed.
- PostgreSQL
- .NET version(7.0.201)
- EF Core 6
- .NET SDK 6

Database Migrations:

Before Migration change this code according to user PostgreSQL server:

Go to appsetting.json:

```
"ConnectionStrings": {  
    //change you Db connection Accordingly.  
    "ConnectionString": "Server=localhost; Database=HElv9; Port=5432; User Id=postgres; Password=0000;"  
}
```

Above connection string is set according to my database:

Start-Migration:

Open the Package Manager Console in Visual Studio.

Run the following command to add an initial migration:

Add-Migration Initial

Run the following command to apply the migrations and create the database:

Update-Database

Run the Application:

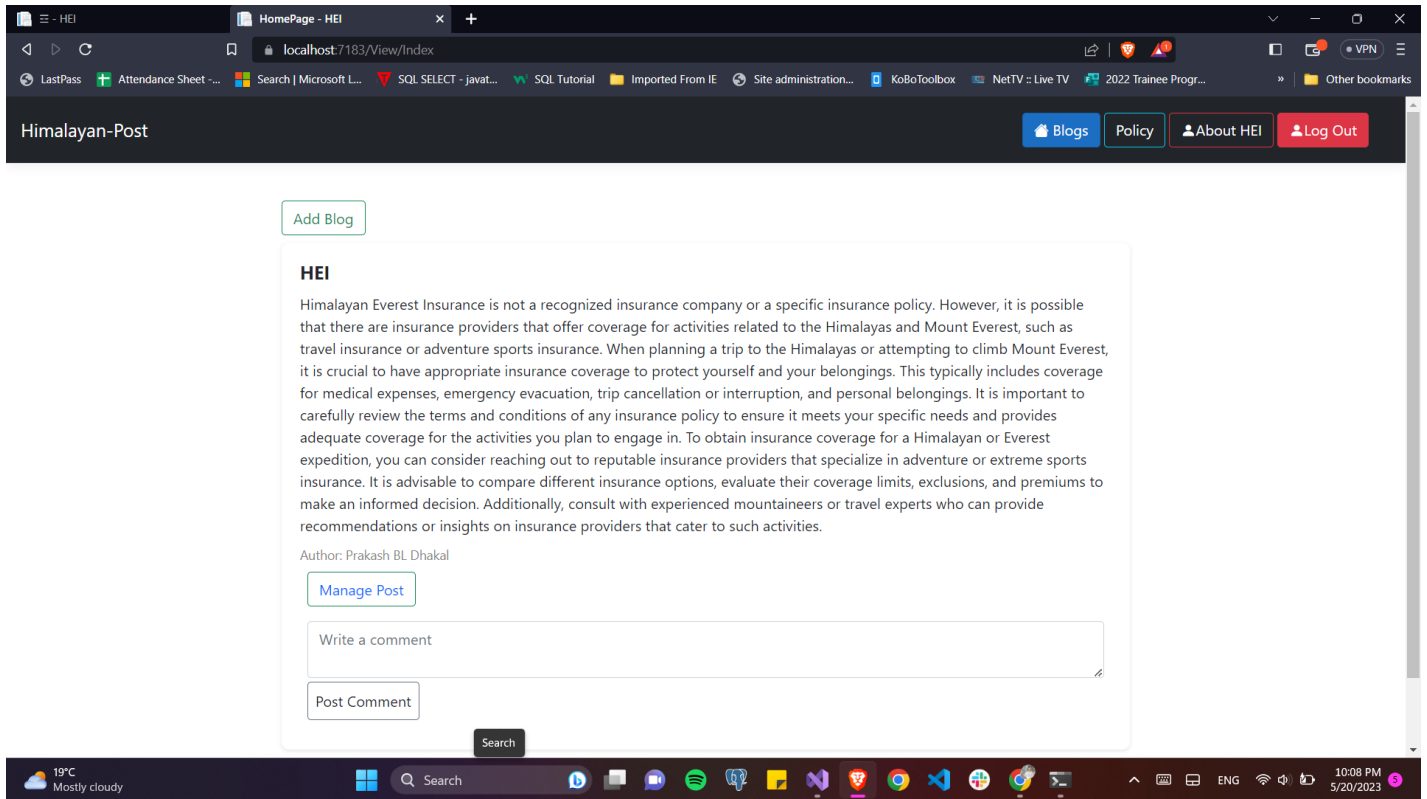
Build the solution and ensure there are no build errors.

Press F5 or use the Debug menu to start the application in Debug mode.

The ASP.NET Core Web Application should now run using Entity Framework Core version 6.

Snapshoots:

1.After Login with Role(Admin,HR) our Home Page Looks like:



2.Admin Can Modify the Existing Blog Content and delete the post

Himalayan-Post

Blogs

Policy

About HEI

Log Out

Title

HEI

Content

Himalayan Everest Insurance is not a recognized insurance company or a specific insurance policy. However, it is possible that there are insurance providers that offer coverage for activities related to the Himalayas and Mount Everest, such as travel insurance or adventure sports insurance. When planning a trip to the Himalayas or attempting to climb Mount Everest, it is crucial to have appropriate insurance coverage to protect yourself and your belongings. This typically

Author

Prakash BL Dhakal

Modify

Delete

Cancel

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3.Normal User has only access to view the post and can create post only.

HomePage - HEI

localhost:7183/View/Index

Himalayan-Post

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Author: Prakash BL Dhakal

Write a comment

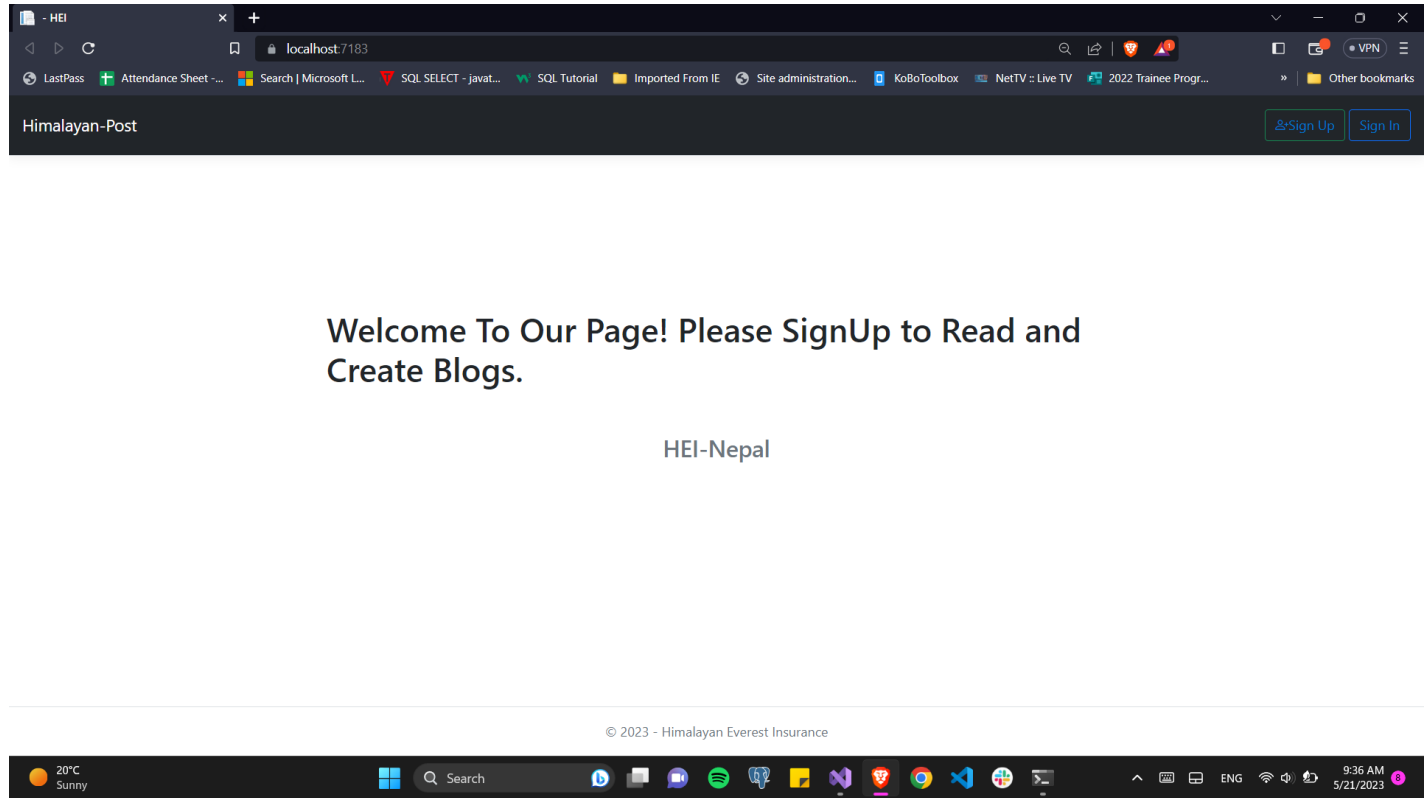
Post Comment

Insurance

Himalayan Everest Insurance is not a recognized insurance company or a specific insurance policy. However, it is possible



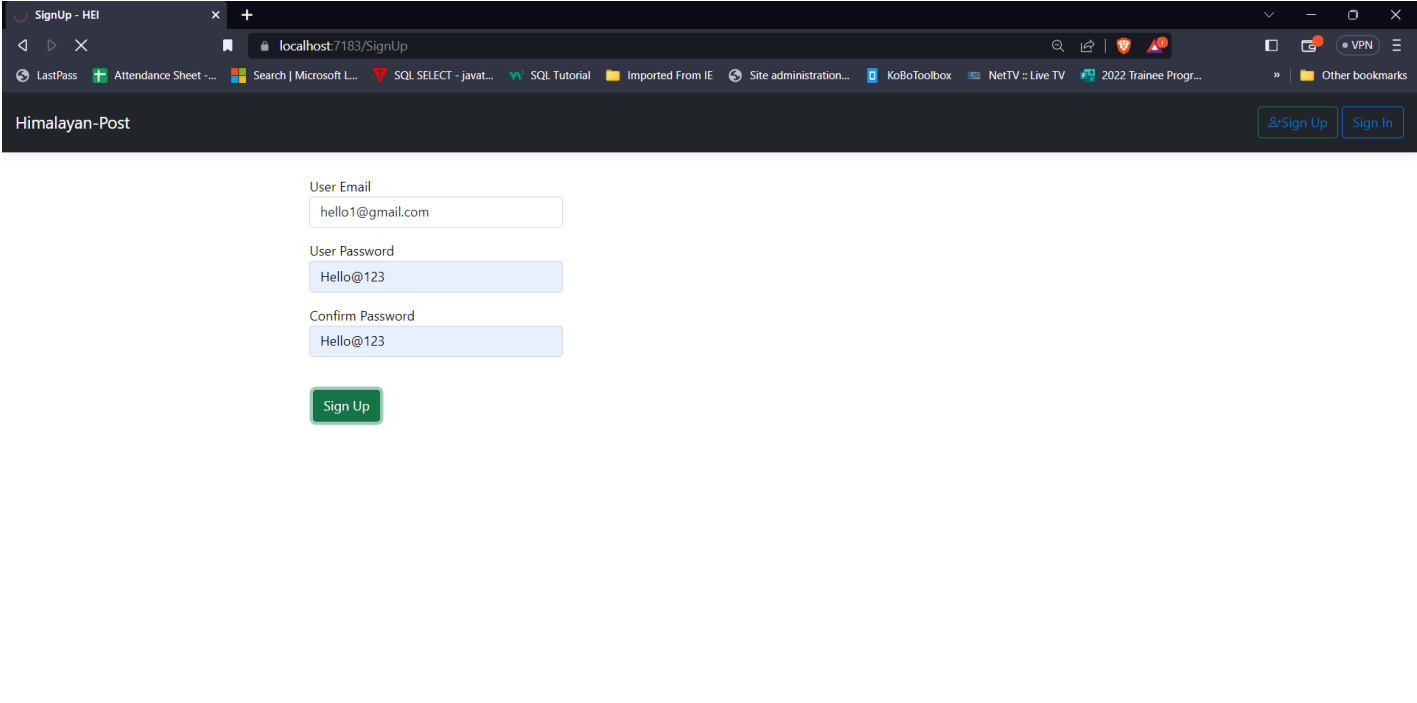
4.This is landing page for all kind of user where user can register or simply sign in if he/she has already created account or simply login by the default admin,hr and user.



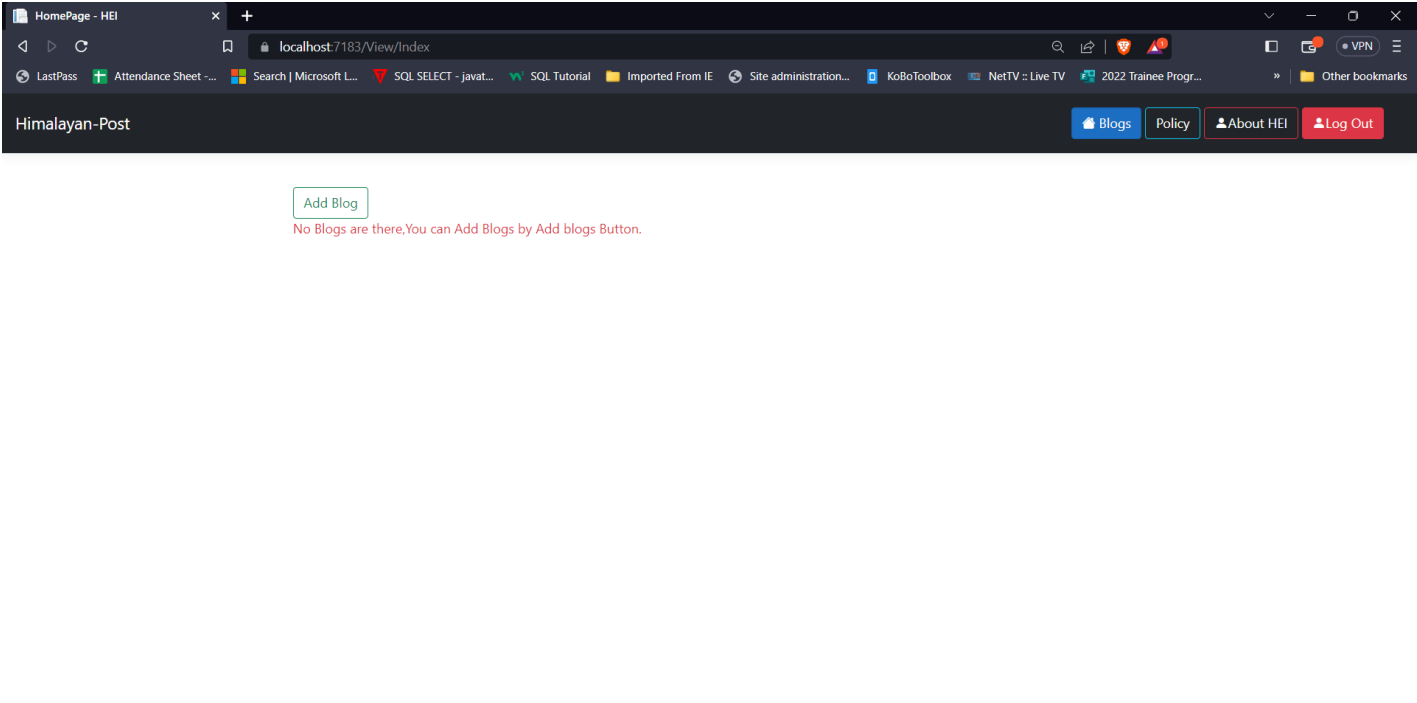
5.Signup page looks like this.

requirement for the password length, it should be at least 8 characters long, including alphanumeric characters (both letters and numbers), and should contain at least one

capital letter, one special character, and one digit.



6.After log in user can see this interface.



7.User can create a post like this.

BlogPost - HEI

localhost:7183/View/Post

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Title

Title

Content

Create a Post

Author

Name of Author

Post BlogDiscard

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BlogPost - HEI

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Himalayan-Post

BlogsPolicyAbout HEILog Out

Title

Wonder Nepal: A Fascinating Destination

Content

@if (signInManager.IsSignedIn(User))
{
 var user = await userManager.GetUserAsync(User);
 var role = await userManager.GetRolesAsync(user);
}

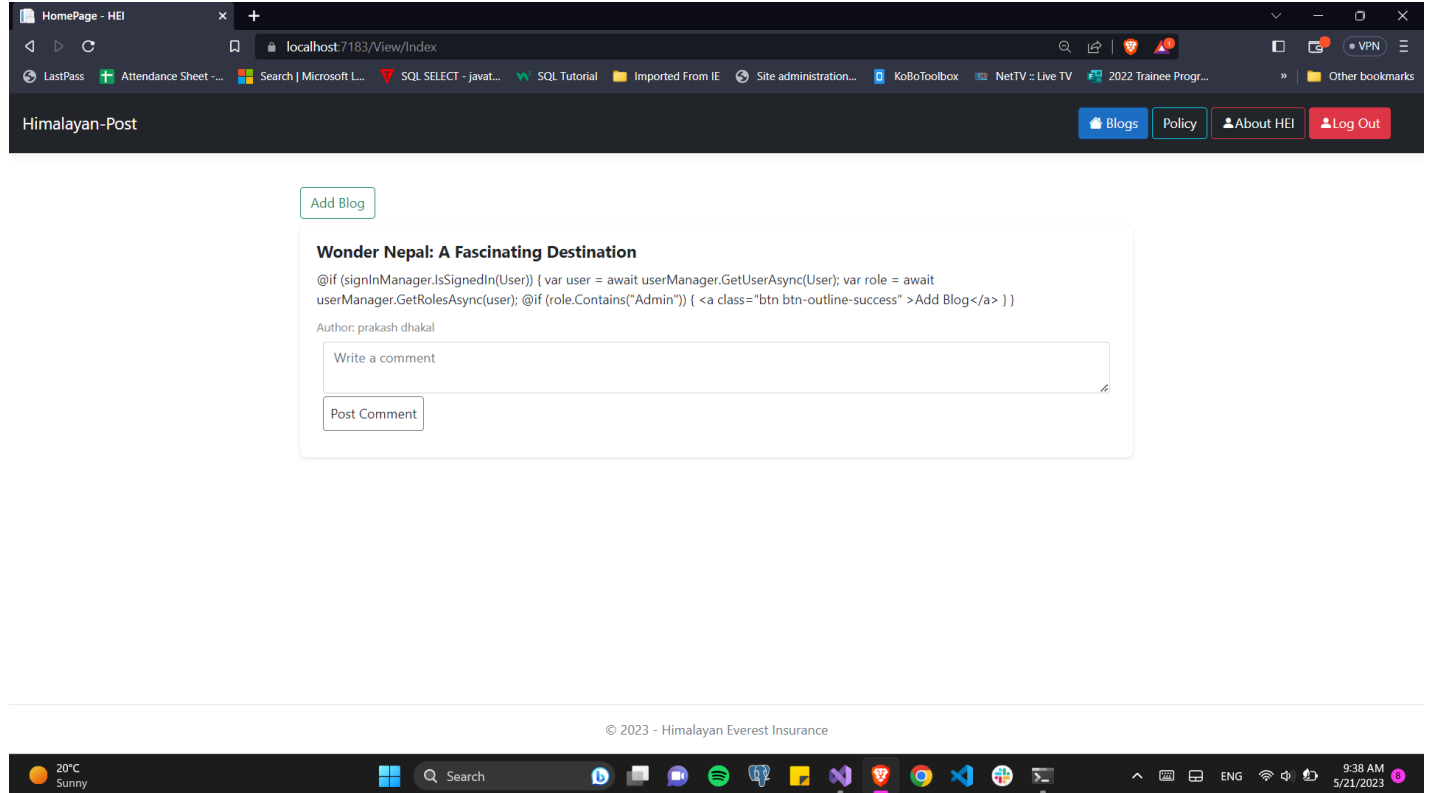
Author

prakash dhakal

Post BlogDiscard

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8.After posting blog home page looks like:



If you find any difficulties,simply contact me:

Email:dhakalprakash946@gmail.com

9867397005

Prakash BL Dhakal

Thank you

9.This is dummy page for look and feel only.

Privacy Policy - HEI

localhost:7183/Privacy

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Choose a Plan Here!

Two WheelerFour WheelerHouse Plan

All Rights Reserve.Himalayan Everest Insurance.

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20°C Sunny

Search

9:38 AM 5/21/2023

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localhost:7183/About

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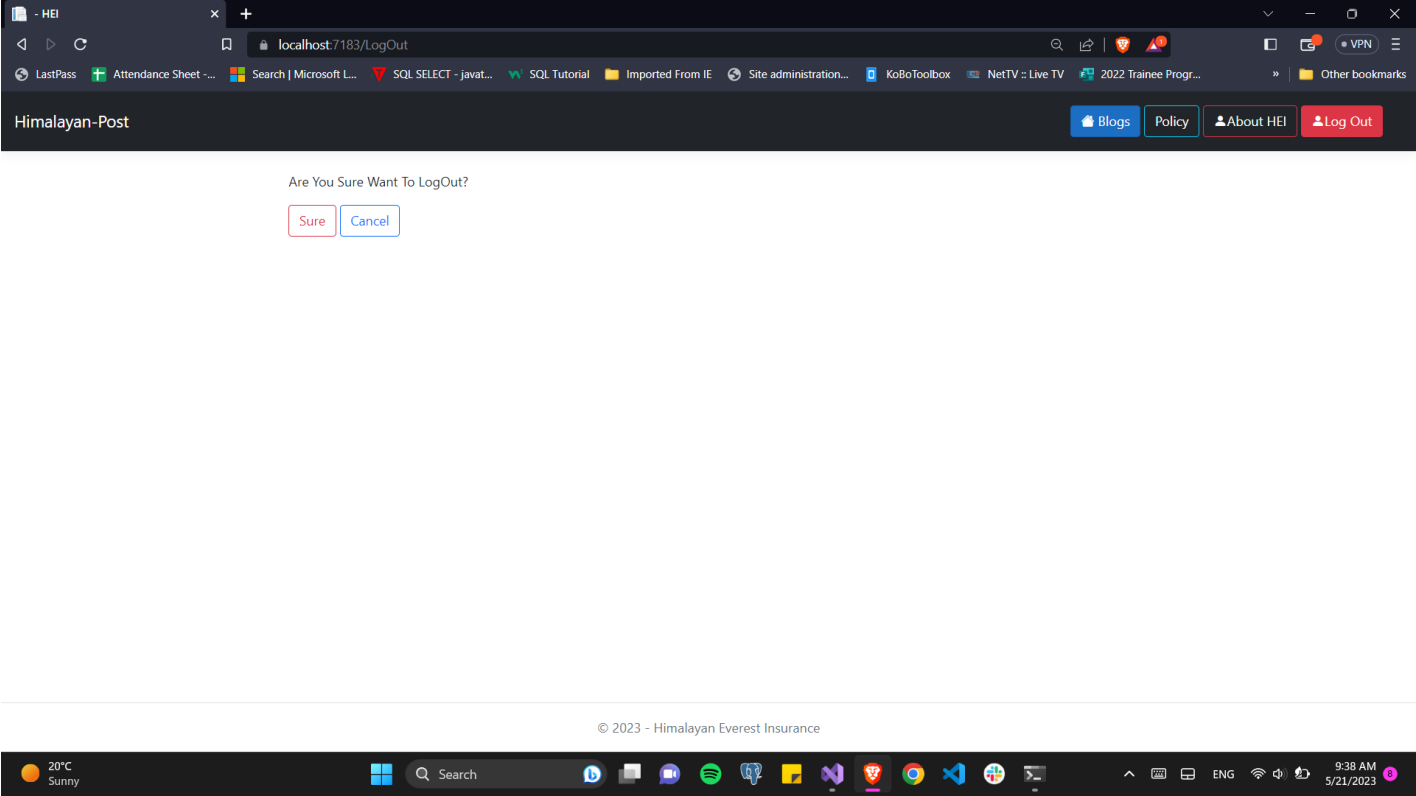
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10.our logout page looks like:



11.Login page looks like

