USER GUIDE DOCUMENT

National Park Management System(NPMS)

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National Park Management System(NPMS)

Project focusing on managing national parks, passes and events in The USA.

Requirements

1. Windows Machine
2. Microsoft Visual Studio Code 2022
3. Web Browser(Microsoft Edge, Google Chrome, Mozilla Firefox etc..)
4. ASP.NET Core 6.0 LTS
5. Git Bash

Packages Required

1. Microsoft.AspNetCore.Identity.EntityFrameworkCore
2. Microsoft.EntityFrameworkCore.SqlServer
3. Microsoft.EntityFrameworkCore.Tools
4. Microsoft.VisualStudio.Web.CodeGeneration.Design
5. NReco.Logging.File by Vitalii Fedorchenko
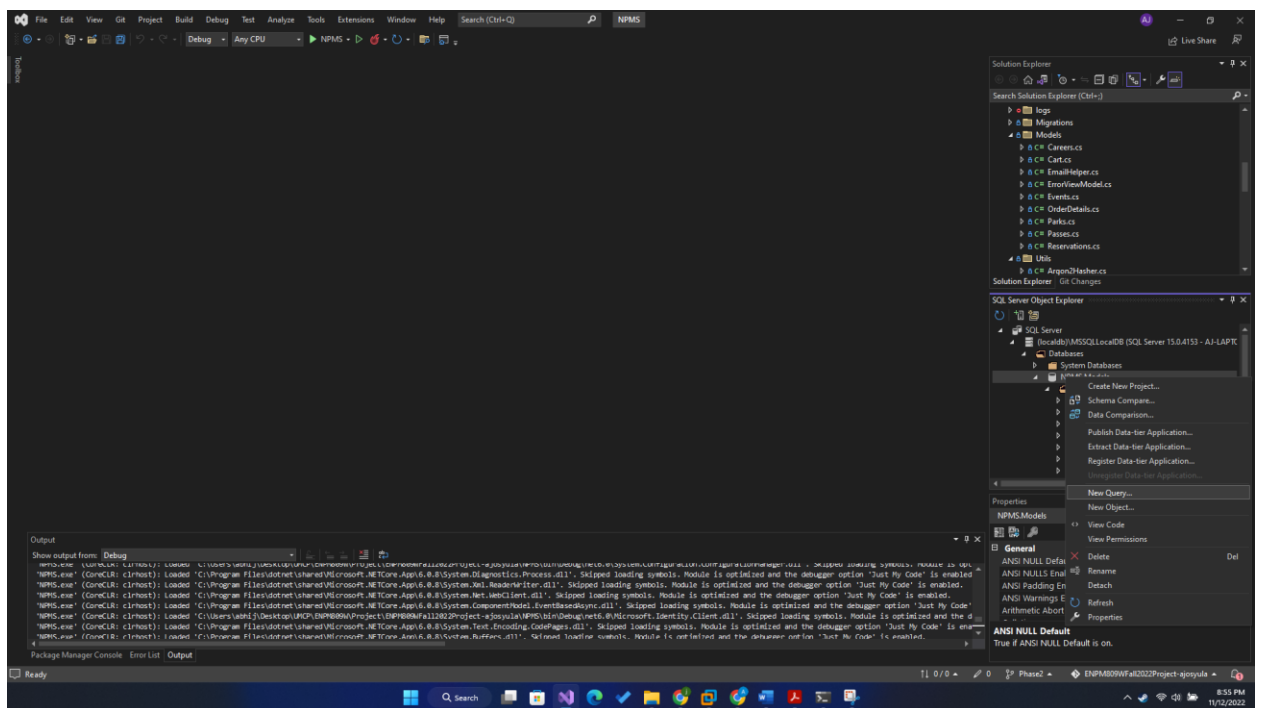6. Konscious.Security.Cryptography.Argon2(optional)

Steps to setup NPMS

1. Start by cloning the repository to the local machine from code.umd.edu using Git Bash at your desired location.

   git clone git@code.umd.edu:ajosyula/ENPM809WFall2022Project-ajosyula.git

2. Once cloned, a folder will be created with the name ENPM809WFall2022Project-ajosyula. Navigate into the directory in Git Bash and then checkout to Phase2 branch using
   cd ENPM809WFall2022Project-ajosyula && git checkout Phase2

3. In Visual Studio navigate to the project folder and open the NPMS.sln file which loads the project into Visual Studio.

4. To view databases, click on View => SQL Server Object Explorer. You can find NPMS.Models database which is used in the web application.

5. Now run the project by clicking on NPMS button at the center of the toolbar which starts building the project and opens the web application in a web browser.

6. On initial run, if the application throws an error saying NPMS.Models cannot be accessed. Follow these steps to resolve the error.
   Stop the application by closing the browser.
   Navigate to Tools => NuGet Package Manager => Package Manager Console
   Run the following command
   Update-Database

7. After running the command right click on NPMS.Models database and select New Query which opens SQL editor which will be used to run a SQL script.

8. Open Scripts folder present in directory ENPM809WFall2022Project-ajosyula which has NPMS_Script.sql file.

9. Open the file using Notepad or Notepad ++ , copy the script and paste in the SQL Editor and execute the script using Ctrl+Shift+E or the green button at the top left corner.

10. Now run the application by clicking the NPMS button at the center of the toolbar which starts the application.

Use Cases

There is a user already added as admin. Please use the following credentials to login as admin user.

Username: test

Password: Test@123

Registration

To access this functionality please include your outlook email id in Models/EmailHelper.cs file at <from_email_id> placeholder(line 10 and 19) and password at placeholder <from_email_id_password> (line no 19). User can register using the Register Button and please do note that users will get a registration confirmation link and users can login only if they confirm the registration by clicking on the link.

View Details of National Parks and Events

The Customer can view the details of National Parks and the events happening in national parks in the United States without registering or logging in.

Buy Parking and Individual Passes

A User can buy parking pass if they are arriving by car and can purchase individual pass if they are arriving by walk by clicking on Buy Pass link to the right side of the park. Please note that users should be logged in to buy the passes. After clicking on Buy Pass the user will be redirected to the list of passes and their prices. User can add a pass to cart and browse a little and click on My Cart button to checkout the item. Please do note that it is left to User Discretion to buy the appropriate passes. Users can use the Contact Us link to contact the administrators regarding any questions.

Sign up for an event

Users can view the events by clicking on View Events to the right side of the park which shows the details of the events happening in the national parks. Users can sign up for events like rock climbing, hiking, cycling etc. which are happening in national parks by purchasing event passes.

Reserve a place for an event

Users can reserve a place in national park to host their own events like birthdays, anniversaries etc.. by clicking on Reserve a place button which navigates users to a form which should be filled by the details of the customers. Please note that users should be logged in to fill the form.

<u>Apply for Careers</u>

Users can apply for careers present in different national parks by navigating to Careers page by clicking on Work For Us button. Users should upload their resumes using the Choose File and Upload button. The resumes will be uploaded and reviewed by administrators.

<u>Admin Functionality</u>

<u>Add or Update Park Details</u>

Only Admin users can add or update park details. First the admin user must be logged in to access this functionality. After logging in admin can click on Park Management where admin can add details of park by clicking Create New link and fill all the details of the park. Please do note that to populate image of park the park image should be downloaded in wwwroot/images folder and should mention the path in the Park Image URL field. Admin can Update the details by clicking on Edit link which allows admin to update the details of the park. And on clicking Delete link Admin can delete the park which will not be visible to the public.

<u>Add or Update Passes details</u>

Only Admin users can add or update pass details. First the admin user must be logged in to access this functionality. After logging in admin can click on Pass Management where admin can add details of pass by clicking Create New link and fill all the details of the pass. Admin can Update the details of a pass by clicking on Edit link which allows admin to update the details of the pass. And on clicking Delete link Admin can delete the pass which will not be visible to the public.

<u>Add or Update Event details</u>

Admins can add or update event details happening in national parks. Please note that admins must be logged in to access this functionality.

<u>Allocating Spaces based on reservations</u>

Admins can click on Reservation button to view the reservation request made by the users and based on the requests the admins can react accordingly.