Report: Simple Blog Web Application with Login and Signup Feature

Introduction

This is a simple blog web application built using Go programming language, MySQL database and Gorilla sessions. The application allows users to create an account, login, logout, create and view blog posts.

Team Members

This project was developed by a single person (myself).

Running the Code

To run this code, first, you need to have Go and MySQL installed on your system. Then, follow the steps below:

Create a new database named productdb in your MySQL server.

Create a table named Products in the productdb database with columns id (auto-increment), Name, Email, and Password.

Update the MySQL database username and password in the main() function.

Navigate to the project directory and run the following command:

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Navigate to the project directory and run the following command:

go

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go run main.go

Open your web browser and go to http://localhost:8080 to access the application.

Features

Signup Feature

The signup feature allows users to create a new account by providing their name, email, and password. The function CreateAconut() handles the signup feature. If the HTTP method is not POST, the function will serve the signUP.html template. If the HTTP method is POST, the function will get the user's input data, check if the username already exists in the database, and create a new account if the username does not exist. The user's password will be hashed before being stored in the database using the bcrypt package.

signup-page

Login Feature

The login feature allows users to log in to their account using their username and password. The function loginPage() handles the login feature. If the HTTP method is not POST, the function will serve the signIn.html template. If the HTTP method is POST, the function will check if the username exists in the database and if the password is correct. If the username and password are correct, the user will be redirected to the homepage.

login-page

Logout Feature

The logout feature allows users to log out of their account. The function Logout() handles the logout feature. The function will delete the session cookie and redirect the user to the login page.

Homepage Feature

The homepage feature displays all the blog posts created by the users. The function index() handles the homepage feature. The function will query all the articles from the articles table and display them on the index.html template.

homepage

Create Blog Post Feature

The create blog post feature allows users to create a new blog post. The function create() handles the create blog post feature. The function will serve the create.html template. The user will provide the title, anons, and full text of the blog post. The function save\_article() will handle the form submission. If the user did not provide all the required fields, the function will display an error message. If all the required fields are provided, the function will insert the blog post intReport: Simple Blog Web Application with Login and Signup Feature

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