Blogs App In C

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***Abstract*— Wiki is a popular way of sharing and learning knowledge. In this age of Information and Technology, blogs can be a great platform for experts as well as learners. Password protected multi-user blog app was developed only using C programming language. A user can register an account, write new blogs, edit existing blogs, view blogs, search blogs and connect with fellow bloggers through the contact page right in the CLI. Robust and efficient program can be written in C programming language if a little more time and energy is spent during the development. Dynamic memory allocation is done to make the program even better. This app can be used in the real world to share knowledge. This also shows how c program can call functions written in other languages seamlessly.**

***Keywords***— **Blog, C programming, authentication, Wiki, User contacts.**

1. Introduction

The blogging app written entirely in C programming language is a program that creates data files per blog and saves users in a ‘users.txt’ file. Users can write blog entries in any topic they like and share valuable knowledge and view blogs once they are authenticated. What’s even more exciting is that the users can not only read and write blogs but also can find likeminded people to collaborate with and connect with other people using the blogging app.

1. Features

Major features of this application are as follows:

* Allows user to create new user account or log in.
* Write a blog about something.
* Edit the blog.
* View the blogs by other users as well as their own.
* View the contact details of the fellow bloggers and their blogs in profile view.
* In case the required blog is not locally available, user can read wiki from wikipedia.com right in the command line.

1. Libraries

Following libraries are used:

* Stdio
* String
* Stdlib
* Custom libratry authentication

1. files

There are two c files namely auth.c for authentication system and blog.c that contains all functions for blog application.

Functions used in the application are discussed below:

* 1. Auth.c

It defines a structure User that stores name, password,email and contact details of the user.

1. Is\_valid\_password; It validates password. It makes sure that the password is at least 8 character long, cotains a uppercase letter and a number.
2. Signup: It lets user register an account.
3. Login: It lets user login with registered account.
4. Auth: It call helper functions in auth.c file for authentication.
   1. Blog.c

It defines a data structure Blog that stores title, username, content and edited status of the blog.

1. Addarticle: Lets user add a new wiki.
2. Viewarticle: Lets user search and view a wiki. If it does not find any wiki of the title, it redirects to get\_wiki which uses Wikipedia api to fetch wiki.
3. Editarticle: Lets user edit existing wiki.
4. Viewall: It allows users to see the list of available wikis and lets them choose which wiki they want to read.
5. Get\_wiki: It uses python module that uses Wikipedia api to fetch wiki from the Wikipedia.
6. viewUser: It lets user to see list of users and lets him/her choose a user. Then it takes user to profile view of the selected user where all the contacts and blogs of that user are listed. People can collaborate with each other with help of that contact information.
   1. Wiki.py

It contains python scripts that fetches wiki entry from the Wikipedia and displays the extracts.

1. Challenges

Dynamic allocation of memory and use of file handling as well as using Wikipedia API to get Wikipedia entry from the web were major challenges.

1. Future plans

We will like to use data base like PosgresSQL to store user information and make user friendly interface in future.

1. Conclusions

A working C program was developed that can be used in the real world for sharing knowledge. Scripts written in python is called form c program seamlessly.

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References

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