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import java.util.*;

public class createProject
{

    public static void main(String[] args)
    {
        Scanner input = new Scanner(System.in);
        String userName = "";
        ArrayList<String> siteNames = new ArrayList<String>();
        ArrayList<String> passwords = new ArrayList<String>();
        System.out.println("Welcome to PassPortal, a manager for all those");
        System.out.print(" pesky passwords so you don't forget them");
        System.out.println("Please enter a username");
        userName = input.nextLine();
        System.out.println("");

        while(true) {
            menu();
            int choice = Integer.parseInt(input.nextLine());
            if (choice == 1)
            {
                display(siteNames,passwords,userName);
            } else if (choice == 2)
            {
                change(siteNames, passwords, input);
            } else if (choice == 3)
            {
                System.exit(0);
            }
        }
    }

    public static void menu()
    {
        System.out.println("Menu:");
        System.out.println("1) View my password list");
        System.out.println("2) Change my passwords");
        System.out.println("3) Exit");
    }

    public static void changeMenu()
    {
        System.out.println("Change Menu:");
        System.out.println("1) Add new password");
        System.out.println("2) Remove a password");
        System.out.println("3) Change existing password");
        System.out.println("4) Exit");
    }
}

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    public static void display(ArrayList<String> sites, ArrayList<String>
passwords, String username)
    {
        System.out.println("");
        System.out.println("Welcome to "+username+"'s password book!");
        for(int i = 0; i < sites.size(); i++)
        {
            System.out.print("Site: ");
            System.out.println(sites.get(i));
            System.out.print("Password: ");
            System.out.println(passwords.get(i));
        }
        System.out.println("");
    }

    public static void change(ArrayList<String> sites, ArrayList<String>
passwords , Scanner input2)
    {
        System.out.println();
        changeMenu();
        int choice = Integer.valueOf(input2.nextLine());
        if (choice == 1)
        {
            System.out.println("What is the name of the site?");
            String site = input2.nextLine();
            System.out.println("What is the password?");
            String pass = input2.nextLine();
            if(sites.contains(site)){
                System.out.println("Site already exists. Back to the menu");
                changeMenu();
            }
            sites.add(site);
            passwords.add(pass);
        } else if (choice == 2)
        {
            String site = "";
            boolean validRequest = false;
            while(!validRequest){
                System.out.println("What is the name of the site associated
with the password you want to remove?");
                site = input2.nextLine();
                if(sites.contains(site))
                {
                    validRequest = true;
                }
            }
            int pos = sites.indexOf(site);
            sites.remove(pos);

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        passwords.remove(pos);
    } else if (choice == 3)
    {
        String site = "";
        boolean validRequest = false;
        while(!validRequest){
            System.out.println("What is the name of the site associated
with the password?");
            site = input2.nextLine();
            if(sites.contains(site))
            {
                validRequest = true;
            }
        }
        System.out.println("What is the name of new password?");
        String newPas = input2.nextLine();
        int pos = sites.indexOf(site);
        passwords.set(pos, newPas);
    }
}
}

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