

Python Programming Internship Project

Random Username Generator

Objective:

The goal of this project is to create a Python program that generates unique and fun usernames suitable for social media or gaming platforms.

This project involves working with lists, randomization, and file handling.

Features:

1. Combine random adjectives and nouns to create usernames.
2. Allow customization options to include numbers or special characters.
3. Save generated usernames to a file for future use.
4. Interactive user input for preferences.

Python Code:

```
import random

def generate_username(adjectives, nouns, add_number=False, add_special_char=False):

    adj = random.choice(adjectives)

    noun = random.choice(nouns)

    username = adj + noun

    if add_number:

        username += str(random.randint(0, 99))
```

```

if add_special_char:

    special_chars = ['!', '@', '#', '$', '%', '&', '*']

    username += random.choice(special_chars)

return username


def save_usernames_to_file(usernames, filename="usernames.txt"):

    try:

        with open(filename, 'w') as file:

            for username in usernames:

                file.write(username + "\n")

            print(f"Usernames saved to {filename}.")

    except Exception as e:

        print(f"Error saving to file: {e}")


def main():

    adjectives = ['Cool', 'Happy', 'Brave', 'Lazy', 'Smart', 'Kind']

    nouns = ['Tiger', 'Dragon', 'Panda', 'Eagle', 'Lion', 'Bear']

    print("Welcome to the Random Username Generator!")

    num_usernames = int(input("How many usernames would you like to generate? "))

    add_number = input("Include numbers in usernames? (yes/no): ").strip().lower() ==
'yes'

    add_special_char = input("Include special characters in usernames? (yes/no):
").strip().lower() == 'yes'

    usernames = [generate_username(adjectives, nouns, add_number, add_special_char) for

```

```
_ in range(num_usernames)]
```

```
print("\nGenerated Usernames:")
```

```
for username in usernames:
```

```
    print(username)
```

```
    save_to_file = input("\nSave usernames to a file? (yes/no): ").strip().lower() ==  
'yes'
```

```
    if save_to_file:
```

```
        save_usernames_to_file(usernames)
```

```
if __name__ == "__main__":
```

```
    main()
```

Sample Output

Generated Usernames:

SmartBear97\$

CoolBear95\$

HappyLion59!

LazyTiger31@

HappyBear68@