# **PROJECT REPORT**

on

# Random Password Generator

(CSE III Semester Mini Project)

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Session: 2021-2022

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

GRAPHIC ERA HILL UNVERSITY, DEHRADUN

## **CERTIFICATE**

Certified that Mr. Anmool Kumar (Roll No.- 8) has developed mini project on "Random Password Generator" for the CS III Semester Mini Project Lab in Graphic Era Hill University, Dehradun. The project carried out by Students is their own work as best of my knowledge.

Date: 20/02/2022

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Class Co-ordinator Project Guide

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GEHU Dehradun GEHU Dehradun

**ACKNOWLEDGMENT** 

I would like to express our gratitude to The Almighty Shiva Baba, the most

Beneficent and the most Merciful, for completion of project.

I wish to thank our parents for their continuing support and encouragement.

I also wish to thank them for providing us with the opportunity to reach this far

in our studies.

I would like to thank particularly our project Co-ordinator Mr. Rakesh

Patra and our Project Guide Dr. Satvik for his patience, support, and

encouragement throughout the completion of this project and having faith in us.

We also acknowledge to teachers like Mr. Chandradeep who helped me in

developing the project.

At last, but not the least We greatly indebted to all other persons who

directly or indirectly helped us during this work.

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## TABLE OF CONTENTS

CHAPTER NO.		TITLE	PAGE NO.
1.	INTRODU	UCTION	5
	1.1	Objective	5
	1.2	Overview	5
2.	PROJECT		6
	2.1 Requirements of Project		6
		2.1.1 IDE Software	6
		2.1.2 Prog. Language	6
		2.1.3 Hardware Used	6
	2.2 S	napshots	7
3.	Conclusion		8
	3.1 Summary		8
	3.2 Future Goals		8
API	PENDIX: Sou	ırce Code	9
REFERENCES			10

#### INTRODUCTION

#### 1.1 OBJECTIVE

With growing technology, everything has relied on data and securing these data is the main concern. Passwords are meant to keep the data safe that we upload on the Internet.

An easy password can be hacked easily and all the personal information can be misused. In order to prevent such things and keep the data safe, it is quite necessary to keep our passwords very strong.

Let's create a simple application that can generate random password, with the combination of letters, numeric, and special characters. One can mention length of the password based on requirement and can also select the strength of the password.

#### 1.2 OVERVIEW

In this project, the user has to select the password length and then click on the "Generate Password" button. It will show the generated password below. The user can also choose the strength of the generated password:

- "Low" is a combination of random lowercase letters and digits.
- "Medium" is a combination of random lowercase and uppercase letters and digits.
- "Strong" is a combination of random lowercase and uppercase letters, punctuation symbols and digits.

and if the user clicks on the "Copy to Clipboard" button, then it will copy the password automatically.

#### **PROJECT**

### 2.1 REQUIREMENTS OF PROJECT

#### 2.1.1 IDE Software:

IDE stands for integrated development environment; it is a software that combines all the feature and tools needed by software developers. In this project, we have used Visual Studio Code for compiling the programs.

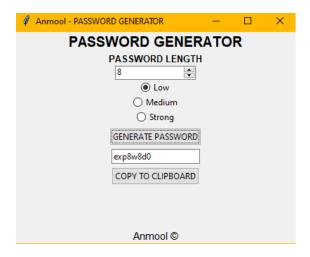
#### 2.1.2 Programming Language:

For the source code, Python programming language is used; developed by Python Software Foundation primarily by Guido Van Russom. Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

#### 2.1.3 Hardware Used:

This project is created by my own laptop in which there's Intel core i5 10<sup>th</sup> generation processor packed with 512 SSD, 64-bit operating system and equipped with 8GB RAM.

#### 2.3 SNAPSHOTS:



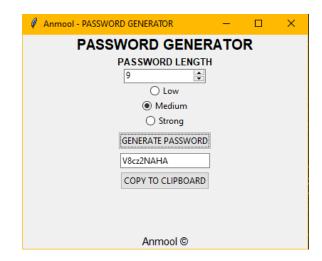


Fig. 1: Password Strength set to "Low"

Fig. 2: Password Strength set to "Medium"

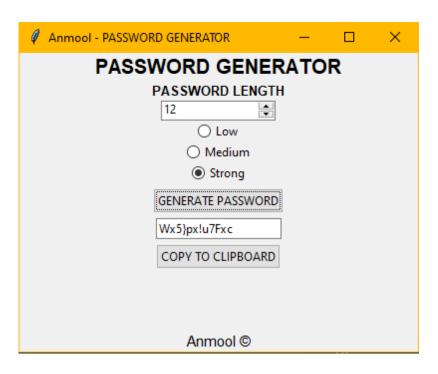


Fig. 3: Password Strength set to "Strong"

```
| 10 | Section | 10 |
```

Fig. 4: Running application with Source Code

### **CONCLUSION**

### 3.1 Summary:

We all make use of passwords on a daily basis, to keep your account safe and prevent your password from being hacked we have to make our password is hard enough that nobody can guess.

Password generator is a Random Password generating program which generates a password mix of upper and lowercase letters, as well as numbers and symbols strong enough to provides great security.

#### 3.2 Future Goals:

Future goals will include the password storing the generated passwords in a separate database and running a test to see if the newly generated password isn't the same as the previous generated passwords. The application will also have a separate timer that will remove the generated password within the limit.

## **APPENDIX**

## **Source Code**

```
# DECEMP X

# DECE
```

```
### NEWLY | X

### PRODESSORY | X

### PRODESS
```

## **REFERENCES**

- Get Programming, Learn to code with Python by Ana Bell
- GeeksForGeeks
- YouTube
- docs.python.org