**PROJECT**
**(2020-2021)**


**AUTO_TWEET**
**(TWITTER BOT)**


SYNOPSIS

**Department of Computer Engineering &**
**Applications**
**Institute of Engineering & Technology**

SUBMITTED TO:                                   SUBMITTED BY:

Mr. Vinay Agarwal                    Devashish Ranjan (181500213)
(Assistant Professor)

# ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the synopsis of the B.Tech Mini Project (**AUTO_TWEET**) undertaken during B.Tech III<sup>rd</sup> Year. This project in itself is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals.

We owe special debt of gratitude to **Mr. Vinay Agarwal,** Assistant Professor Department of CEA, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work. His sincerity, thoroughness and perseverance is been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies.

We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.


Devashish
Ranjan
(181500213)

# AUTO_TWEET

(Twitter Bot)

Twitter is a very popular and hyperactive social media platform but it is not as same as the other platforms as twitter basically allows you to put out your own opinion and then let others react to it. You can just **tweet** what's on your mind and after that millions of people (*152 million specifically*) will react to it in the way they perceive it to be either by **replying** to your tweet, **re-tweeting** it or **liking** it but that's not it .

As i said above it's not as same as every other platform cause approximately **23 million** of those 152 million people are bots (as twitter estimates say).

Majority of active twitter accounts are bots and these bots do all sorts of different things from posting a random picture to reminding you take a break from your phone and so on the possibilities are limitless.

That's where **AUTO_TWEET** comes in. Under this account name i have created a twitter bot named "**COVID TRACKER**" which as you have pretty much guessed by the name provides up to date coronavirus statistics to the users when they mention my bots twitter handle *(@project_tweepy)* and include a specific hashtag such as *#COVID19* for worldwide stats or *#Country-Name* (can be replaced by any country name of users choice) for country specific stats .

- There are following users: Anyone who has access to a smart device (such as a smart phone or a pc/laptop) with internet access

- There are following user functionalities:

    1. Users can query worldwide coronavirus stats
    2. Users can query country wide coronavirus stats

# TABLE OF CONTENTS

## PROJECT  ANALYSIS:

## Introduction

## 1.1 Overview:-

-  All the functional/non-functional requirements, corresponding DFD's, UML and Use Case Diagrams have been organized in this report. Along with these designs, this report also contain the essential data of this project.
-  The complete description of the application followed by the functionalities has been listed initially. Later on, the twitter bot has been described diagrammatically with the help of different designing tools like Data Flow Diagram, Use Case Diagram, Interaction Diagram.

## 1.2 Motivation:-

In current scenario, as we all are facing an epidemic so it always helps to the greatest extent to be informed of the damage done by this is virus so far so that we can plan or actions accordingly and keep ourselves and others safe.
As millions of people use twitter every day so, I came up with the idea of this bot to help users analyze the amount of lives lost so far so that they become aware of there actions and support everyone they can to **#flattten the curve.**

## 1.3 Problem Statement:-

As we all are facing a pandemic right now so it is necessary to always be informed about the lives, we have lost so far so that we can fix our actions and keep ourselves and others face.

So that's why I designed this bot so that users can query covid stats whenever and wherever they want as long as they are twitter.

## 1.4 <u>Objective:</u>

**Auto_Tweet** aims to provide the latest data about coronavirus to the user.
With **AUTO_TWEET** users can get the latest worldwide, country wide, state wide up to date coronavirus statistics when they mention my bots twitter handle *(@project_tweepy)* and include a specific hashtag such as *#COVID19* for worldwide stats or *#Country-Name* (can be replaced by any country name of user's choice) for country specific stats.

- There are following users: Anyone who has access to a smart device (such as a smart phone or a pc/laptop) with internet access & is interested in knowing the current status of the virus so far

- There are following user functionalities:

  i. Users can query worldwide coronavirus stats
  ii. Users can query country wide coronavirus stats
  iii. Users can query state wide coronavirus stats*

## 2. Dependencies/External Systems

### User Interfaces:

The user interface will be the tweet that user posted mentioning my bot or in other words the UI will be the users twitter account.

### Hardware Interfaces:

The hardware interface will be the user's smart device and the server on which my bot is hosted.

## HARDWARE REQUIREMENT (MINIMUM)

- ☐ 2 GB RAM

- ☐ **1 GB OF HDD SPACE**

- ☐ **Processor i5 (7$^{th}$ Gen)**

- ☐ **1024 x 768 Display**

## SOFTWARE REQUIREMENT-

### ☐ SYSTEM SOFTWARE

- **Operating System (Windows 10, Linux)**

### ☐ APPLICATION SOFTWARE

- ### Tools:
PyCharm (any IDE or text editor would do) and several other python libraries which are listed below

- ### Programming:
PYTHON

## Server:

- Heroku for hosting the bot

### Technologies used:

**Python:**  Python is the programming language of this project.

### Python Libraries:

- **Tweepy:** This is an easy to use python library for accessing twitter's api.

- **Requests:** This is a simple and easy to use HTTP library for python which allows the user to efficiently send a request and connect to any website that you want after which you can request it for it's content and so on.

- **LXML:** LXML is a pythonic, mature binding for the libxml2 and libxslt libraries . It provides safe and convenient access to these libraries using the ElementTree API .

## References:

- **[www.w3school.com](http://www.w3school.com)**
- **[www.towardsdatascience.com](http://www.towardsdatascience.com)**
- **[www.youtube.com](http://www.youtube.com)**