



# Microsoft

## Partner Network

This is to certify that the project designated as  
***“INSTABOT using SELENIUM”***  
has been successfully:

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towards partial completion of  
B.TECH

UNDER

DELHI TECHNICAL CAMPUS  
Academic Year:2018-2022

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## ***CERTIFICATE***

Certified that this project report “instabot using selenium” is the combined work of the students of B.Tech third year Semester V under the guidance of Mr. Parth Shukla.

1.Lakshay Kohli

2.Aman Ahmed

Who carried out the project under the supervision

Mr. Parth Shukla  
**(Project Guide)**

Date:

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# PROJECT

## INSTABOT USING SELENIUM

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### Introduction

This project “**INSTABOT**” is a python based automation project which can be used to redirect to a browser and open *instagram.com*. It would then enter the login details in the specified section. This could then be used to follow people, unfollow people and like the first post in the feed. This program would be compatible with *Firefox*. Geckodriver for Firefox are installed in the program to directly open **Firefox**.

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# ACKNOWLEDGEMENT

We wish to express our project guide **Mr. Parth Shukla** sir, who provided valuable insight and robust support throughout the span of this project work. We completed this project under the complete guidance of our mentor who helped us develop our skills for making the project, and for our future projects.

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## INTRODUCTION

A large section of people use *Social media* a lot in their day to day lives. Social Media is a rapidly growing section where each day millions of people join. Social media's use increased dramatically in the current lockdown period. One of these platforms is ***Instagram***. Instagram is used to connect with more people, build influence, and create compelling content attracting people around the globe. People on Instagram are followed by millions of people around the globe. It is being used for promotions of products, popularising ideologies, spreading awareness, and other such stuffs. Currently a lot of new features have been added to the app. Thus a thought arises to automate the website. Here we used *PYTHON* to create a mini-project that would automatically redirect to Instagram and perform a particular function.

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## *SOFTWARE REQUIREMENTS*

- Technical details:
  - Language: *PYTHON*
- Module Used:
  - *SELENIUM*

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## MODULES

- **SELENIUM:**

- Selenium Python bindings provide a simple API to write functional/acceptance tests using Selenium WebDriver. Through Selenium Python API you can access all functionalities of Selenium WebDriver in an intuitive way.
- Selenium Python bindings provide a convenient API to access Selenium WebDrivers like Firefox, Ie, Chrome, Remote etc. The current supported Python versions are 3.5 and above.
- This documentation explains Selenium 2 WebDriver API. Selenium / Selenium RC API is not covered here.

- **DRIVERS:**

- Selenium requires a driver to interface with the chosen browser. Firefox, for example, requires **geckodriver**, which needs to be installed before the below examples can be run. Make sure it's in your PATH, e. g., place it in /usr/bin or /usr/local/bin.
- Failure to observe this step will give you an error **selenium.common.exceptions.WebDriverException: Message: 'geckodriver' executable needs to be in PATH.**
- Each supported browser has its own driver available.



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## ***CONCLUSION***

This project is designed to login on *INSTAGRAM*. It would then be followed by liking the first post from the feed. It will then be redirected to the notification page where the list of pending followers would be opened and these requests would be accepted. If the exact username of a user is added in the code then that user could follow or unfollow the user automatically. It has been designed in python 3.9.0.

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## SOURCE CODE

```
#importing the necessary modules for the script

from selenium import webdriver

from selenium.webdriver.common.keys import Keys

import time

import os

class InstaBot:

    def __init__(self, usernm, passwd):

        self.usernm = usernm

        self.passwd = passwd

        self.base_url = 'https://www.instagram.com'

        self.driver = webdriver.Firefox()

        self.login()

        time.sleep(3)

    def login(self):

        self.driver.get('{}accounts/login/'.format(self.base_url))

        time.sleep(5)

        self.driver.find_element_by_name('username').send_keys(self.usernm)

        self.driver.find_element_by_name('password').send_keys(self.passwd)

        time.sleep(5)

        self.driver.find_element_by_xpath('/html/body/div[1]/section/main/div/article/div/div[1]/div/form/div[4]/button/div').click()
```

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```
        time.sleep(3)
self.driver.find_element_by_xpath('/html/body/div[1]/section/main/div/div/
div/div/button').click()

        time.sleep(1)
self.driver.find_element_by_xpath('/html/body/div[4]/div/div/div/div[3]/bu
tton[2]').click()

        time.sleep(1)

def nav_user(self, user):

    self.driver.get('{} / {} /'.format(self.base_url, user))

    time.sleep(3)

def follow_user(self, user):

    self.nav_user(user)

    time.sleep(3)

self.driver.find_element_by_xpath('//button[contains(text(),"Follow")]').c
lick()

        time.sleep(5)

def unfollow_user(self, user):

    self.nav_user(user)

    time.sleep(3)

self.driver.find_element_by_css_selector('.glyphsSpriteFriend_Follow').cli
ck()
```

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```
        time.sleep(5)
self.driver.find_element_by_xpath('/html/body/div[4]/div/div/div/div[3]/bu
tton[1]').click()

        time.sleep(5)

if __name__ == '__main__':

    ig_bot = InstaBot('', '') #add your username and password

    ig_bot.follow_user('marshmellomusic')

    ig_bot.unfollow_user('marshmellomusic')
```