

REPORT
ON
“WhatsApp Web Automation”

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SUBMITTED BY
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CERTIFICATE

This is to certify that the project report entitles

“WhatsApp Web Automation”

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is a bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. S. S. Varpe** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering**.

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Mr. Rushikesh Amale

ABSTRACT

Most of our parents having DND(Do Not Disturb) mode activated on their mobile phone so they do not get the messages send by college regarding attendance, marks etc. of their ward or generally we do not check the text messages, so for that reason we have created one php site which will send the messages automatically on WhatsApp using python script.

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INTRODUCTION ABOUT WEB AUTOMATION

Automation replaces human work in repetitive, tedious tasks, and minimizes the number of errors. With the right automation tools it is possible to automate browser tasks, web testing, and online data extraction, to fill forms, scrape data, transfer data between applications, and generate reports.

Hospitals with data processes, real estate companies with changing listings, and anyone with order entry or the need to find and use data, all rely on automation tools to perform essential functions and stay competitive.

Big part of web automation is browser automation. It aims to mimic how person uses web browser to automate repetitive scenarios. As it usually happens with a computer trying to be a human, the process gets complex and fragile.

Selenium

Python is easy compared to other programming languages, having far less verbose. The Python APIs empower you to connect with the browser through Selenium. Selenium sends the standard Python commands to different browsers, despite variation in their browser's design. You can run Python scripts for Firefox, Chrome, IE, etc. on different Operating Systems.

Selenium is a tool to test your web application. You can do this in various ways, for instance:

- Permit it to tap on buttons
- Enter content in structures
- Skim your site to check whether everything is "OK"

SOFTWARE REQUIREMENT SPECIFICATION

➤ **Software Requirements:**

1. OS: Windows 10
2. IDE: PyCharm
3. Server: XAMPP
4. Programming language: Python
5. Other Languages: Php, CSS, HTML
6. Browser: Chrome
7. Drivers: ChromeWebDriver
8. Libraries: Selenium, Time.

➤ **Hardware Requirements:**

1. RAM 512MB and Above
2. HDD 20 GB Hard Disk Space

SYSTEM IMPLEMENTATION

Login Page:

AVCOE

Tutor Login

Class BE A

tbadmin

.....

Submit

Add Records:

AVCOE

LogoutAddView

Student Records

Class BE A

Roll No:

Name:

Marks:

Attendance:

Mobile:

Submit

Send Message:

AVCOE

Logout

Add

View

Student Records

Class BE A

Roll No	Name	Marks	Attendance	Mobile	Action
4112	Gauri Bhavsar	60	74	8378057001	Delete
4111	Manali Bhalgat	62	73	7057686945	Delete
4106	Rushikesh Amale	80	99	9822665516	Delete

SEND WHATSAPP MESSAGES

Database Structure:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	roll_no	int(11)			No	None			Change Drop More
<input type="checkbox"/> 2	name	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 3	marks	float			No	None			Change Drop More
<input type="checkbox"/> 4	attendance	float			No	None			Change Drop More
<input type="checkbox"/> 5	mobile	text	latin1_swedish_ci		No	None			Change Drop More

CODE:

- Check Login:

```
<?php
    session_start();
    if ($_SESSION['user'] == 'teacher') {
        //KEEP
    }
    else{
        //LOGOUT
        header("Location: login.php");
    }
?>
```

- **Database Connection:**

```
<?php

define('hostname', 'localhost');
define('user', 'root');
define('password', '');
define('databaseName', 'student_records');

$connect = mysqli_connect(hostname, user, password, databaseName);
?>
```

- **Setup environment for automation:**

```
def basic():
    path = r'library\chromedriver.exe'
    driver = webdriver.Chrome(path)
    driver.set_page_load_timeout(10)
    driver.implicitly_wait(10)
    qr = r'http://web.whatsapp.com/'
    driver.get(qr)
    time.sleep(15)
    send(driver, get_number())
```

- **Get Data in Python Script:**

```
def get_data():
    mydb = mysql.connector.connect(host='localhost', user='root', password='', database='student_records')
    mycursor = mydb.cursor()
    query = '''SELECT roll_no, name, marks, attendance, mobile FROM records'''
    mycursor.execute(query)
    result = mycursor.fetchall()
    return result
```

ADVANTAGES

- Easy to implement
- Cost efficient
- Time efficient
- Parent can track their wards progress easily.

DISADVANTAGES

- Need high speed internet connection
- Parent must be on WhatsApp

CONCLUSION

In this project I have learnt to implement WhatsApp web automation with the help of selenium python library.

REFERENCES

<http://www.github.com/rushikeshamle/whatsapp-message.>