



Annexure-I

Automation Anywhere

A training Report

Submitted in partial fulfillment of the requirements for the award of degree of
Bachelor of Technology (Computer Science and Engineering).

Submitted to

LOVELY PROFESSIONAL UNIVERSITY

PHAGWARA, PUNJAB



L OVELY
P ROFESSIONAL
U NIVERSITY

Submitted By

Name of student: Keshav Vyas

Registration Number: 12013121

A handwritten signature in blue ink, appearing to be "Keshav", on a light-colored background.

Signature of the student:

Name of student: Vishwa Ratan Soni

Registration Number: 12004047

A handwritten signature in blue ink, appearing to be "Vishwa", on a light-colored background.

Signature of the student:



Annexure-II: Student Declaration

To whom so ever it may concern

I, **Keshav Vyas, 12013121** and I, **Vishwa Ratan Soni, 12004047** hereby declare that the work done by us on “**Automation Anywhere Project**” i.e., “**Download Reports from NSE**” from **October 2022** to **November 2022**, is a record of original work for the partial fulfillment of the requirements for the award of the degree, **Bachelor of Technology**.

Keshav Vyas (12013121)

Signature of the student

Dated: November 15, 2022.

Vishwa Ratan Soni (12004047)

Signature of the student

Dated: November 15, 2022.



ACKNOWLEDGEMENT

Primarily we would like to thank God for being able to learn a new technology. Then we would like to express my special thanks of gratitude to the teacher and instructor of the course Mr. **Dipen Saini Sir**, who provided us the golden opportunity to learn a new technology from home.

We would like to also thank my own college Lovely Professional University for offering such a course which not only improve my programming skill but also taught me other new technology.

Then we would like to thank my parents and friends who have helped me with their valuable suggestions and guidance for choosing this course.

Last but not least we would like to thank my all classmates who have helped me a lot.

Keshav Vyas

Reg no: 12013121

Date: 15/11/2022

Vishwa Ratan Soni

Reg no: 12004047

Date: 15/11/2022



Table of Contents

S. No.	Title	Page
1	Cover Page	1
2	Declaration of the student	2
3	Acknowledgement	3
4	Table of Contents	4
5	Introduction	5
6	Process Diagram	6
7	Use Cases	7
8	Screenshots	8
9	Bibliography	16



Introduction

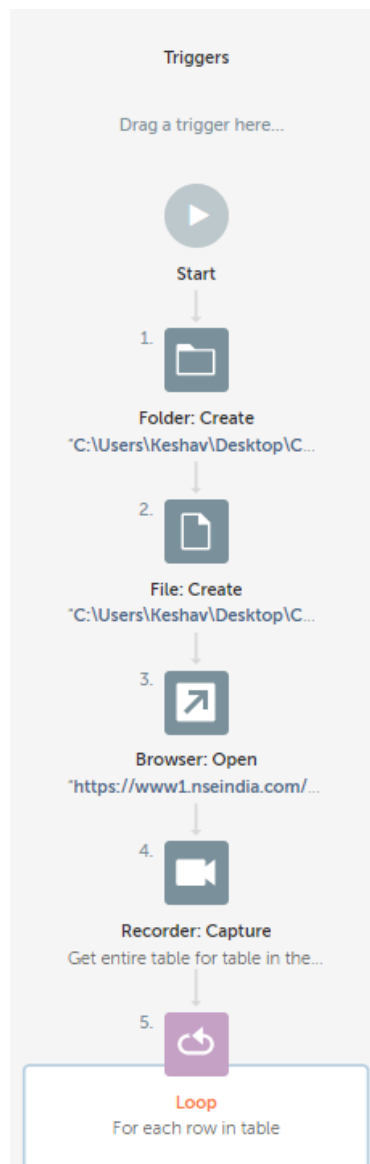
Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage software robots that emulate human's actions interacting with digital systems and software. Just like people, software robots can do things like understand what's on a screen, complete the right keystrokes, navigate systems, identify, and extract data, and perform a wide range of defined actions. But software robots can do it faster and more consistently than people, without the need to get up and stretch or take a coffee break.

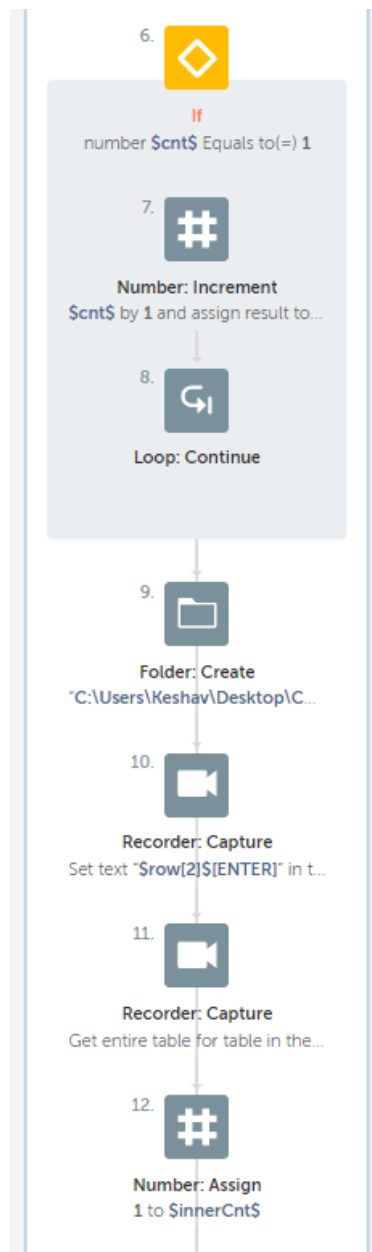
"RPA is a form of business process automation that allows anyone to define a set of instructions for a robot or 'bot' to perform," says Aaron Bultmann, director of product at **Nintex**. "RPA bots are capable of mimicking most human-computer interactions to carry out a ton of error-free tasks, at high volume and speed."

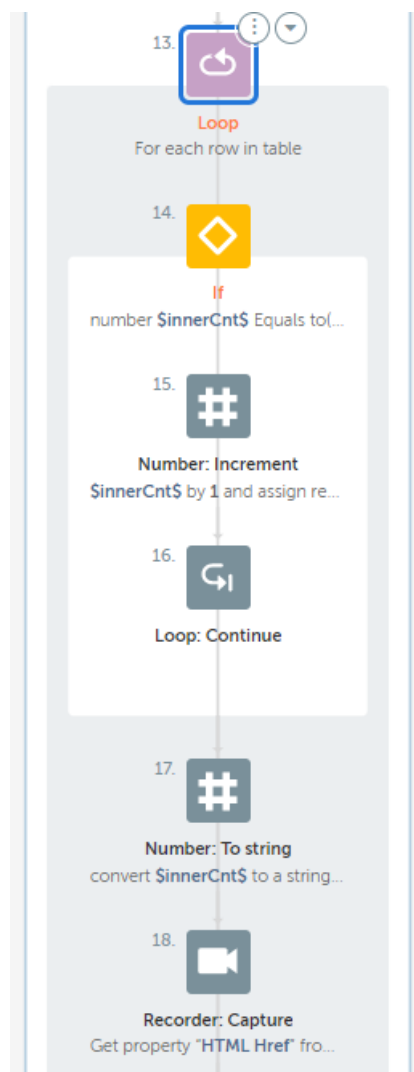
If that kind of automation technology sounds sort of, well, boring – especially compared to the Hollywood robots – that's by design. RPA is ultimately about automating some of the most mundane and repetitive computer-based tasks and processes in the workplace. Think copy-paste tasks and moving files from one location to another, for example.

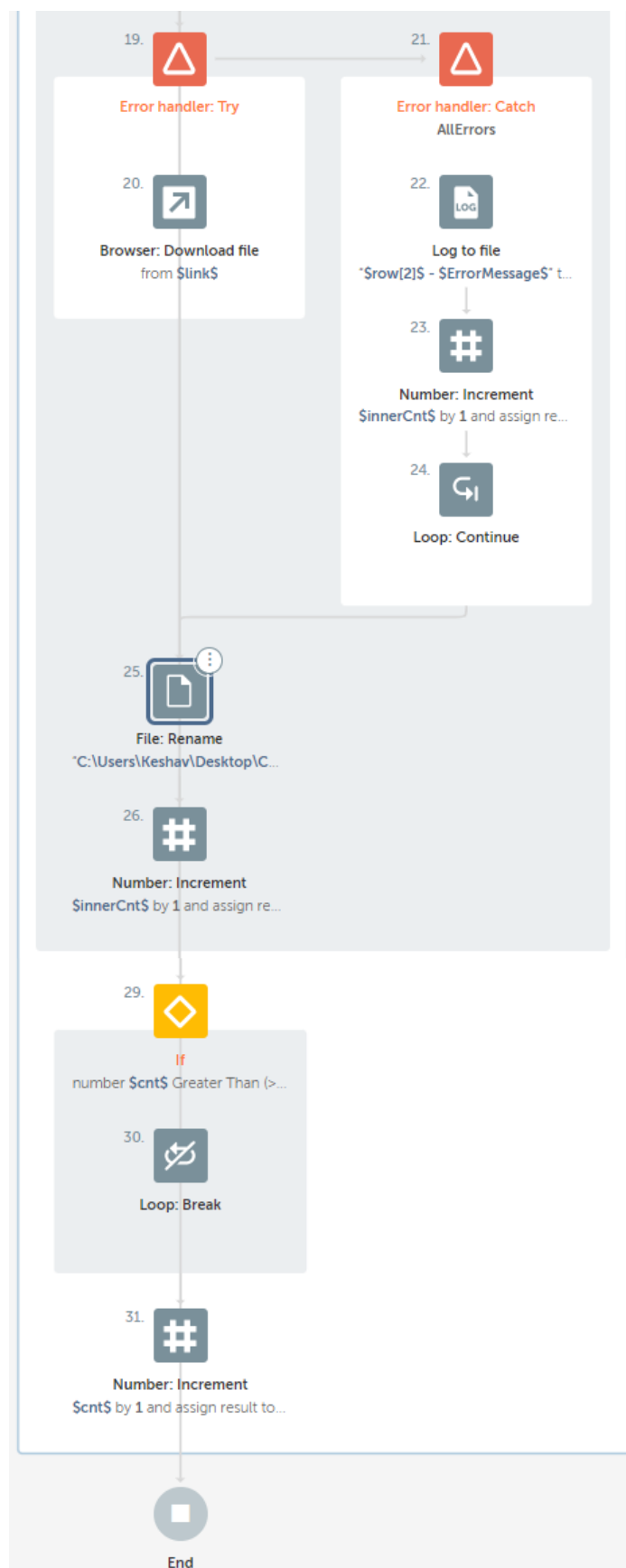
RPA automates everyday processes that once required human action – often a great deal of it performed in rote, time-consuming fashion. That's also how RPA promises to boost efficiency for organizations.

PROCESS DIAGRAM











USE CASES

- In order to start the execution, we will first create our main folder, in which all the sub folders and their respective files (for each specific company) will be created.
- We will also create an Error Message Text file to catch errors like due to site/server issue etc.
- Now, we will open “nseindia” website in the browser.
- We will fetch all the company details in a table variable.
- Now, we will iterate for all the rows in table, excluding the first row which contains headers.
- Each row value contains different element, and so row[2] contains the name of the company, therefore going further we will capture the text box and will search the name of the company in it.
- Again, capture the table which shows the update records, lets refer it as inner table and start looping in it, excluding the first row which would be the column headers row.
- Since we need to download the pdf file, we can capture the cell which is in “Download Report” column and fetch it’s href link.
- Now download the file, with the fetched href link. Use Try and catch block to catch errors and log them in error message text file, in case if the download fails due to server error for a specific pdf.
- The downloaded file is a raw file without any format, so rename it and append “.pdf” extension at end.
- Repeat the whole process for all the files in the inner loop.
- Repeat the process for all the companies, in the outer loop. In order to view only top n companies, we can use if else statement to terminate the session, the moment counter exceeds n.

SCREENSHOT 1

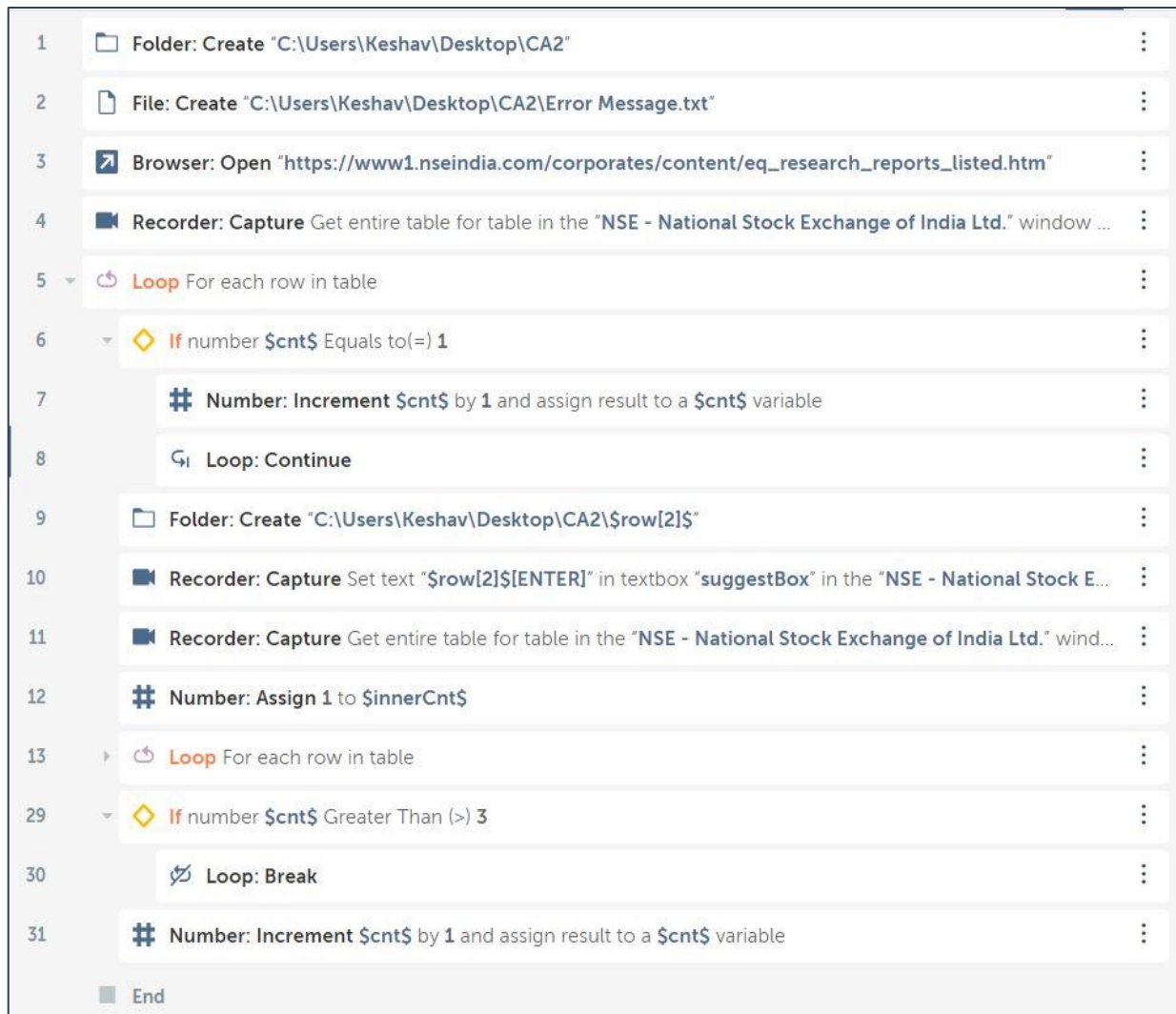


Fig 1.1: Initial Steps to Evaluate the Bot.

SCREENSHOT 2

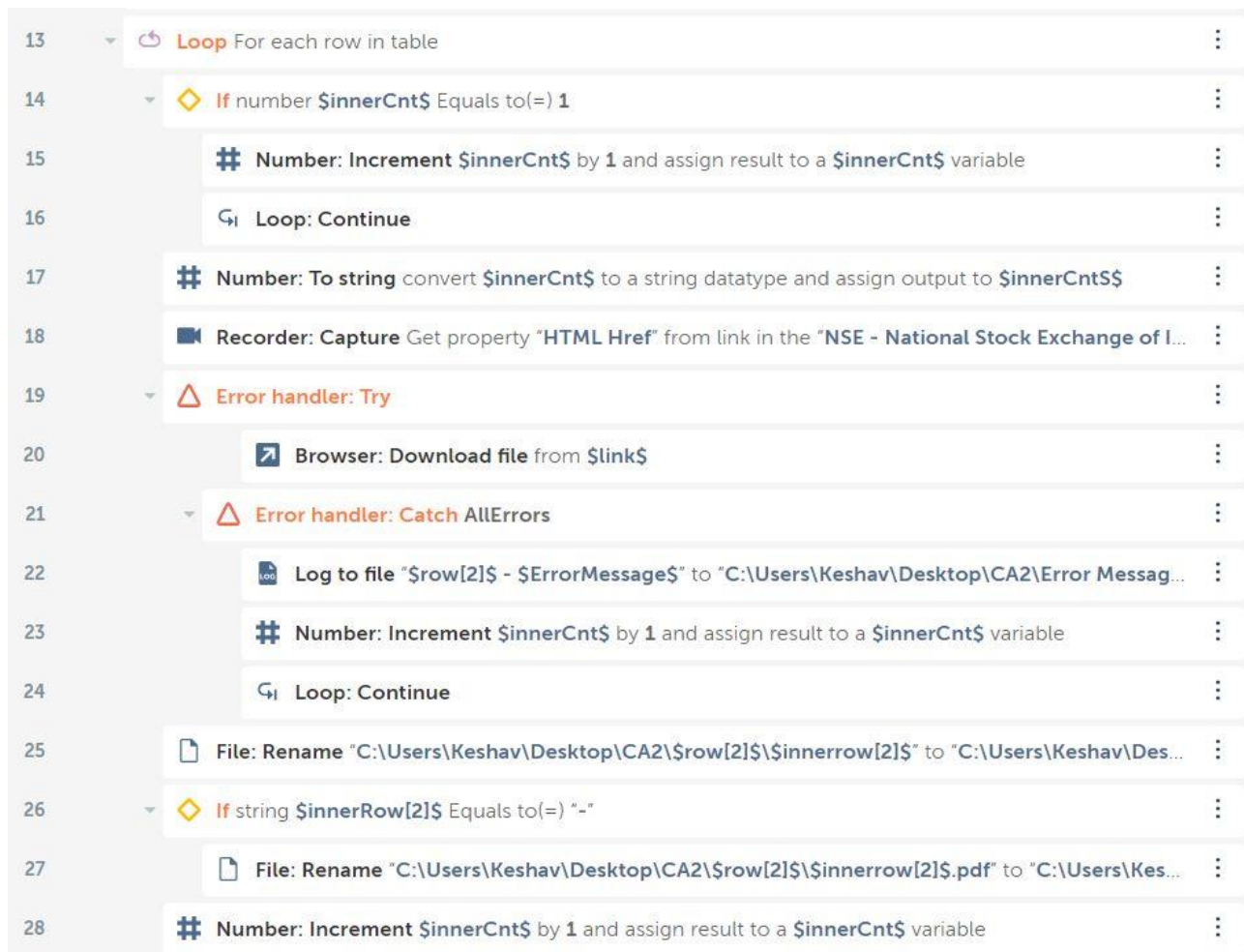


Fig 1.2: The Inner Loop of the Bot From line 14-28.



SCREENSHOT 3

Name	Date modified	Type	Size
3i Infotech Limited	08-11-2022 02:58 PM	File folder	
3M India Limited	08-11-2022 02:58 PM	File folder	
20 Microns Limited	08-11-2022 02:58 PM	File folder	
Error Message	08-11-2022 02:58 PM	Text Document	1 KB

Fig 1.3: The Folders created by Bot.

SCREENSHOT 4

CA2 > 20 Microns Limited












Name	Date modified	Type	Size
 03-Jul-2012	08-11-2022 02:58 PM	Microsoft Edge PD...	236 KB
 12-Jun-2013	08-11-2022 02:58 PM	Microsoft Edge PD...	233 KB
 13-Dec-2011	08-11-2022 02:58 PM	Microsoft Edge PD...	230 KB
 16-Sep-2013	08-11-2022 02:58 PM	Microsoft Edge PD...	231 KB
 23-Dec-2013	08-11-2022 02:58 PM	Microsoft Edge PD...	227 KB
 24-Dec-2012	08-11-2022 02:58 PM	Microsoft Edge PD...	233 KB
 25-Mar-2013	08-11-2022 02:58 PM	Microsoft Edge PD...	302 KB
 27-Feb-2013	08-11-2022 02:58 PM	Microsoft Edge PD...	233 KB
 27-Mar-2012	08-11-2022 02:58 PM	Microsoft Edge PD...	581 KB
 30-Mar-2012	08-11-2022 02:58 PM	Microsoft Edge PD...	232 KB
 Base	08-11-2022 02:58 PM	Microsoft Edge PD...	133 KB

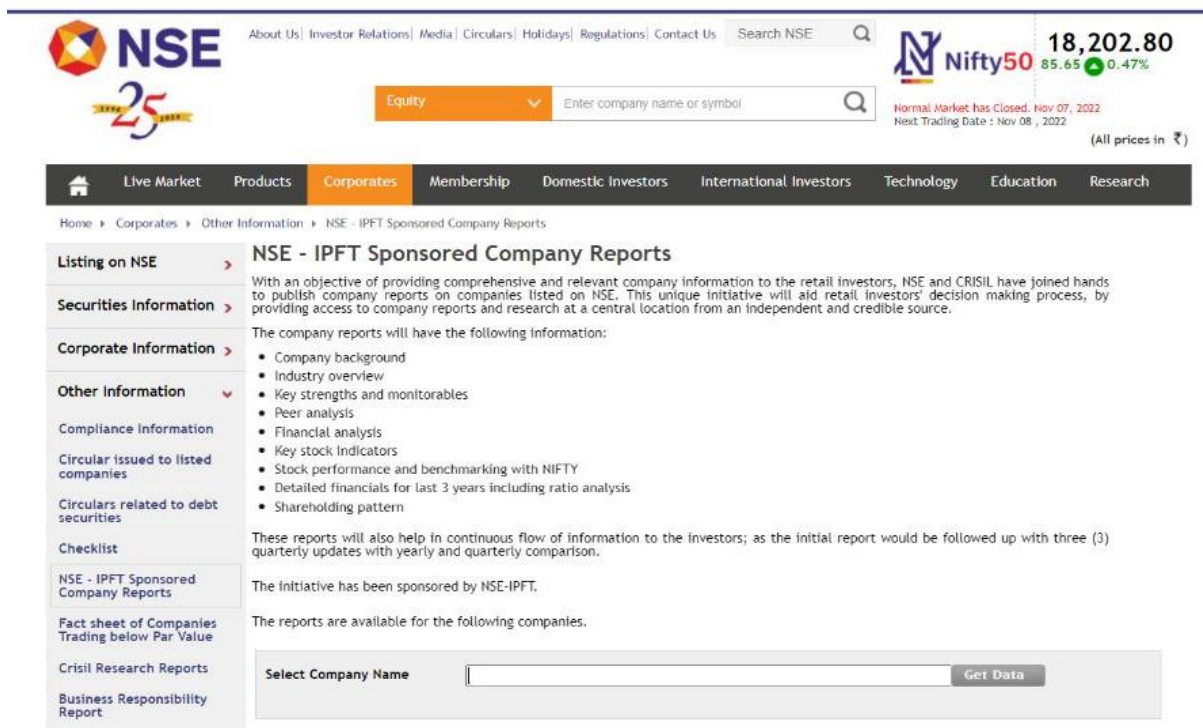
Fig 1.4: PDFs downloaded by Bot.

SCREENSHOT 5



Fig 1.5: Error catching File.

SCREENSHOT 6



The screenshot displays the NSE (National Stock Exchange of India) website. The header includes the NSE logo, navigation links (About Us, Investor Relations, Media, Circulars, Holidays, Regulations, Contact Us), a search bar, and the Nifty50 index value (18,202.80) with a green upward arrow indicating a 0.47% increase. Below the header is a navigation menu with options like Live Market, Products, Corporates, Membership, Domestic Investors, International Investors, Technology, Education, and Research. The main content area is titled 'NSE - IPFT Sponsored Company Reports' and provides information about the initiative to publish company reports on companies listed on NSE. It lists the types of information included in the reports (Company background, Industry overview, Key strengths and monitorables, Peer analysis, Financial analysis, Key stock indicators, Stock performance and benchmarking with NIFTY, Detailed financials for last 3 years including ratio analysis, Shareholding pattern) and mentions that the initiative has been sponsored by NSE-IPFT. A search bar for 'Select Company Name' is also visible.

Fig 1.6: NSE site being opened by Bot.

SCREENSHOT 7























<div> Select Company Name <input type="text"/> <input type="button" value="Get Data"/> </div>			
Sr No.	Symbol	Company Name	Report
1	ZOMICRONS	Z0 Microns Limited	
2	3IINFOTECH	3I Infotech Limited	
3	3MINDIA	3M India Limited	
4	AZZJMES	AZZ Maintenance & Engineering Services Limited	
5	AANJANEYA	Aanjaneya Lifecare Limited	
6	AARTIDRUGS	Aarti Drugs Limited	
7	AARTIIND	Aarti Industries Limited	
8	AARVEEDEN	Aarvee Denims & Exports Limited	
9	ABAN	Aban Offshore Limited	
10	ABB	ABB Limited	
11	ABCIL	Aditya Birla Chemicals (India) Limited	
12	ABGSHIP	ABG Shipyard Limited	
13	ABHISHEK	Abhishek Corporation Limited	
14	ABIRLANUVO	Aditya Birla Nuvo Limited	
15	ACC	ACC Limited	
16	ACCELYA	Accelya Kale Solutions Limited	
17	ACE	Action Construction Equipment Limited	
18	ACROPETAL	Acropetal Technologies Limited	
19	ADANIENT	Adani Enterprises Limited	
20	ADANIPORTS	Adani Ports and Special Economic Zone Limited	
21	ADANIPOWER	Adani Power Limited	
22	ADFFOODS	ADF Foods Limited	

Fig 1.7: Bot Capturing object.

SCREENSHOT 8

Select Company Name

Get Data

◀
Back

Symbol : 20MICRONS

Company Name : 20 Microns Limited













Sr No.	Report Type	Report Date	Download Report
1	Update	23-Dec-2013	
2	Update	16-Sep-2013	
3	Update	12-Jun-2013	
4	Base	25-Mar-2013	
5	Update	27-Feb-2013	
6	Update	24-Dec-2012	
7	Update	03-Jul-2012	
8	Update	30-Mar-2012	
9	Base	27-Mar-2012	
10	Update	13-Dec-2011	
11	Update	05-Aug-2011	
12	Base	-	

Fig 1.8: Bot writing Company Name.



BIBLIOGRAPHY

- 1) **ROBOTIC PROCESS AUTOMATION:** (Book) GUIDE TO BUILDING SOFTWARE ROBOTS, AUTOMATE REPETITIVE TASKS & BECOME AN RPA CONSULTANT by RICHARD MURDOCH, PEARSON.
- 2) **Automation Anywhere Website:**
<https://university.automationanywhere.com/training/rpa-learning-trails/>
- 3) **Stack Overflow:**
<https://stackoverflow.com/search?q=automation+anywhere&s=95592b93-1bc3-4cb4-bbe4-67d6c94efa78>
- 4) **Automation Anywhere (YouTube):**
<https://www.youtube.com/playlist?list=PLsqtNsp8iHKVUia-YI-uvy4xChSL2L3m2>
- 5) **Edureka (YouTube):**
<https://www.youtube.com/playlist?list=PL9ooVrP1hQOGv9kDX4q76sKGkxqy2TX33>