

Team Haxxon

Track : Dev#04

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Introduction:

The general use-case for LinkedIn involves finding out Email IDs of hiring managers from their LinkedIn accounts. However, for this particular problem statement we were given a task of retrieving the LinkedIn URLs from their registered email id. Until recently this would have been a fairly trivial task due to the availability of tools online. The LinkedIn sales finder that was initially connected with gmail was discontinued due to low traffic. The same task can now be done via Outlook as Microsoft owns both Outlook and LinkedIn. Outlook allows users to link their LinkedIn accounts with Outlook, which can then be used to save contacts via a given email and Outlook automatically checks for an associated LinkedIn account.

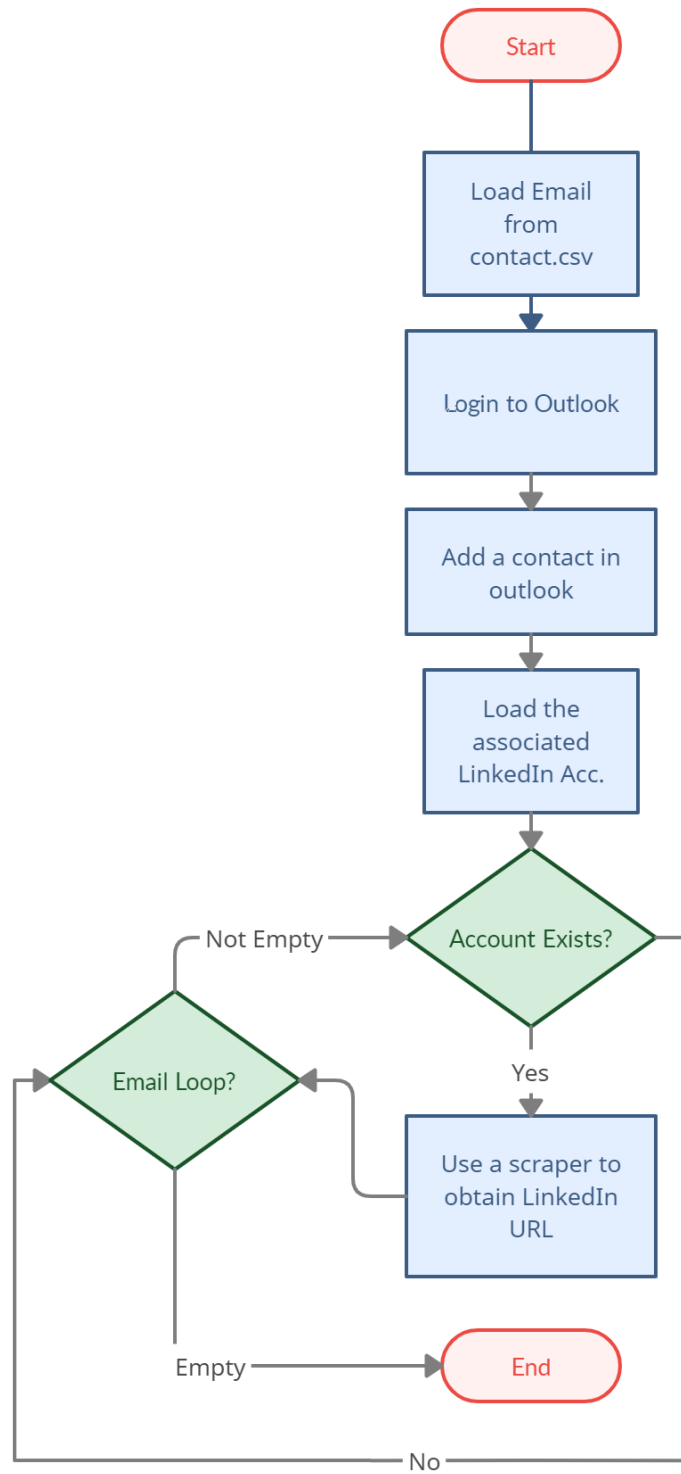
The task is fairly simple with the help of an Outlook account, but the challenge comes in automating this process.

Proposed Method:

We propose a single NodeJS script file that scraps LinkedIn URLs from an outlook account. We first created a new outlook account as well as a new linkedin account and connected both of them via the Outlook web app. We then store the credentials to this outlook account and use a JavaScript module 'Puppeteer' to fetch information. Using puppeteer we first login into the outlook

account and then delete any existing contacts. The user enters the email addresses in 'contact.csv' which is what we will be using as an Input to the script. We then use the provided emails and create a contact in our outlook account. Once the contacts have been added, we check for a linkedin account associated with each email. If an account page opens up, we scrape the LinkedIn url from that webpage. If the user has restricted access to their linkedin account or if the account doesn't exist, the script will not return anything.

Work Done and Results:



```
JS bharatx.js M ×  contacts.csv ×
csvfiles >  contacts.csv
1  E-mail Address
2  1aaa@aaa.com
3  rajareddymittu@gmail.com
4  olanpinto@gmail.com
5  vaishnavajai@gmail.com
6  girishjeswani04@gmail.com
```

```
C:\Users\giris\Projects\TRINIT_Haxxon_DEV04>node bharatx.js
starting
starting
lauching browser normal
Connecting to Outlook
Retrieving Provided Credentials
Authenticating...
```

```
C:\Users\giris\Projects\TRINIT_Haxxon_DEV04>node bharatx.js
starting
starting
lauching browser normal
Connecting to Outlook
Retrieving Provided Credentials
Authenticating...
Authenticated
Retrieving Email
Loading, Please wait....
Searching for LinkedIn profile
```

```
C:\Users\giris\Projects\TRINIT_Haxxon_DEV04>node भारतx
starting
starting
lauching browser normal
Connecting to Outlook
Retrieving Provided Credentials
Authenticating...
Authenticated
Retrieving Email
Loading, Please wait...
Searching for LinkedIn profile
going to contact 1
wait for page load for 2 seconds
selecting linkedin tab
Almost there...
Your linkedin url for girishjeswani04@gmail.com is: https://www.linkedin.com/in/girish-jeswani-8289011a5
going to contact 2
wait for page load for 2 seconds
selecting linkedin tab
Almost there...
Your linkedin url for olanpinto@gmail.com is: https://www.linkedin.com/in/olan-pinto-442a5b192
going to contact 3
wait for page load for 2 seconds
selecting linkedin tab
Almost there...
Your linkedin url for rajareddymittu@gmail.com is: https://www.linkedin.com/in/raja-reddy-pundra-650852196
going to contact 4
wait for page load for 2 seconds
selecting linkedin tab
Almost there...
Your linkedin url for vaishnavajai@gmail.com is: https://www.linkedin.com/in/vaishnavajai
C:\Users\giris\Projects\TRINIT_Haxxon_DEV04>
```

Conclusion:

The proposed method works well for LinkedIn accounts that have not been restricted from view by the user. For users that have restricted their profile, the only way to retrieve profile link is by google queries and cross referencing, but can be inaccurate. In the given time we were able to fetch the LinkedIn URLs with the help of a scraper that obtains the URLs from Outlook contacts. This approach also retrieves multiple linkedin accounts at once.