# An Assignment from Stirring Minds to find all the mode of Contacts by Web Scraping

# For extracting the mode of contact we will perform the web scrapping

### 1 (a). importing the Important Libraries

```
In [2]: 1 import BeautifulSoup
2 # By importing BeautifulSoup Soup we can parse and scrap the HTML and XML document
equests
4 # By Importing requests we can request to API and we can get the raw HTML contents from website i.e to scraping

5 # This library helps to intrect directly from Operating System

1 tk

8 # By this we can import Natural Language toolkit

k import corpus

9 # By this we can import coprora reader which helps to handle specific corpus format

# By this we can import Regular Expression which will help to find some specific things from scrap
```

# 1(b). First taking a URL and store it in 'url1'

```
In [45]: 1 url1='https://www.purpledocs.com/'
```

#### 1(c). Making a request to access the URL

```
In [46]: 1 html_content1=requests.get(url1).text
```

In [47]: 1 html\_content1

Out[47]: '<!DOCTYPE html>\n<html lang="en-US">\n<head>\n\t<meta charset="UTF-8">\n\t<meta name="viewport" content="wi</pre> dth=device-width, initial-scale=1.0, viewport-fit=cover" />\t\t<link rel=\'preconnect\' href=\'https://font s.googleapis.com\' />\n<link rel=\'preconnect\' href=\'https://fonts.gstatic.com\' />\n<meta http-equiv=\'x-</pre> dns-prefetch-control\' content=\'on\'>\n<link rel=\'dns-prefetch\' href=\'//fonts.googleapis.com\' />\n<link</pre> rel=\'dns-prefetch\' href=\'//fonts.gstatic.com\' />\n<link rel=\'dns-prefetch\' href=\'//s.gravatar.com\' / >\n<link rel=\'dns-prefetch\' href=\'//www.google-analytics.com\' />\n<link rel=\'preload\' as=\'image\' hre</pre> f=\'https://www.purpledocs.com/wp-content/uploads/2021/10/PurpleDocs-Fav-Icon-P.png\' type=\'image/png\'>\n< link rel=\'preload\' as=\'font\' href=\'https://www.purpledocs.com/wp-content/themes/soledad/fonts/fontaweso me-webfont.woff2?v=4.7.0\' type=\'font/woff2\' crossorigin=\'anonymous\' />\n<link rel=\'preload\' as=\'font \' href=\'https://www.purpledocs.com/wp-content/themes/soledad/fonts/weathericons.woff2\' type=\'font/woff2 \' crossorigin=\'anonymous\' />\n<link rel=\'preload\' as=\'font\' href=\'https://www.purpledocs.com/wp-cont ent/plugins/penci-recipe/fonts/ficon.woff2\' type=\'font/woff2\' crossorigin=\'anonymous\' />\n<meta name=</pre> \'robots\' content=\'index, follow, max-image-preview:large, max-snippet:-1, max-video-preview:-1\' />\n\n\t <!-- This site is optimized with the Yoast SEO plugin v17.6 - https://yoast.com/wordpress/plugins/seo/ (http s://yoast.com/wordpress/plugins/seo/) -->\n\t<title>PurpleDocs- EMR, Patient Engagement, Medical Record Digi tization</title>\n\t<meta name="description" content="PurpleDocs helps hospitals and doctors achieve their p atient engagement goals through technology solutions & interactive services." />\n\tnk rel="canonica" 1" href="https://www.purpledocs.com/" />\n\t<meta property="og:locale" content="en US" />\n\t<meta property ="og:type" content="website" />\n\t<meta property="og:title" content="PurpleDocs- EMR, Patient Engagement, M

here we get <Response [200]> that means we have successfully accessed the URI

```
In [51]:
           1 #html content1=requests.get(url1).text
           2 | soup1=BeautifulSoup(html content1, 'html') # here html is the type of document
           3 print(soup1.prettify()) #prettify() is used to Beautiful Soup parse tree into a nicely formatted Unicode
         eicons/fonts/eicons.eot?5.10.0);src:url(https://www.purpledocs.com/wp-content/plugins/elementor/assets/lib/e
         icons/fonts/eicons.eot?5.10.0#iefix) format("embedded-opentype"),url(https://www.purpledocs.com/wp-content/p
         lugins/elementor/assets/lib/eicons/fonts/eicons.woff2?5.10.0) format("woff2"),url(https://www.purpledocs.co
         m/wp-content/plugins/elementor/assets/lib/eicons/fonts/eicons.woff?5.10.0) format("woff"),url(https://www.pu
         rpledocs.com/wp-content/plugins/elementor/assets/lib/eicons/fonts/eicons.ttf?5.10.0) format("truetype"),url
         (https://www.purpledocs.com/wp-content/plugins/elementor/assets/lib/eicons/fonts/eicons.svg?5.10.0#eicon) fo
         rmat("svg");font-weight:400;font-style:normal}
           </style>
           <link href="https://www.purpledocs.com/wp-content/uploads/elementor/css/post-312.css?ver=1637852600" id="e</pre>
         lementor-post-312-css" media="all" rel="stylesheet" type="text/css"/>
           <link href="https://www.purpledocs.com/wp-content/plugins/elementor-pro/assets/css/frontend.min.css?ver=3.</pre>
         0.10" id="elementor-pro-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.purpledocs.com/wp-content/uploads/elementor/css/post-1540.css?ver=1637852614" id</pre>
         ="elementor-post-1540-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.purpledocs.com/wp-content/uploads/elementor/css/post-4336.css?ver=1637852601" id</pre>
         ="elementor-post-4336-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.purpledocs.com/wp-content/uploads/elementor/css/post-3704.css?ver=1637852601" id</pre>
         ="elementor-post-3704-css" media="all" rel="stylesheet" type="text/css"/>
```

<link href="https://www.purpledocs.com/wp-content/uploads/elementor/css/post-375.css?ver=1637852601" id="e</pre>

```
In [52]:
           1 | for link in soup1.find all('a'): # Here we can find all the contents stored in directory 'a'
                 print('Inner Text:{}'.format(link.text)) # Here all text of link is stored in '{}' and assigned as 'In
                 print('Title:{}'.format(link.get('title'))) # Here all title of link is stored in '{}' and assigned as
           3
                 print('href:{}'.format(link.get('href'))) # # Here all hypertexts of link is stored in '{}' and asside
                         # and printing all this we will get Output as:-
         Title:None
         href:https://www.purpledocs.com/medical-record-digitization/
         Inner Text:Chronic Care Management Program
         Title:None
         href:https://www.purpledocs.com/chronic-care-management-program/
         Inner Text:Post-Discharge Engagement Program
         Title:None
         href:https://www.purpledocs.com/post-discharge-engagement-program/
         Inner Text:Healthcare Solutions for Corporates
         Title:None
         href:https://www.purpledocs.com/health-solutions-for-corporate/
         Inner Text:About
         Title:None
         href:https://www.purpledocs.com/about-us/
         Inner Text:Contact
         Title:None
         href:https://www.purpledocs.com/contact-us/
         Inner Text:Home
         Title:None
         href:https://www.purpledocs.com/
```

Note: By Doing the same we can Extract the data of 'n' number of pages but here we have done only for 5 URL

#### 2. Taking a second URL and store it in 'url2'

```
In [10]: 1 url2='https://www.wimerasys.com/'
```

```
In [11]:
          1 html content2=requests.get(url2).text
          2 soup2=BeautifulSoup(html content2, 'lxml')
          3 print(soup2.prettify())
          t">
          </script>
          <script src="https://www.wimerasys.com/wp-includes/js/jquery/jquery-migrate.min.js?ver=1.4.1" type="text/j</pre>
        avascript">
          </script>
          <script src="https://www.wimerasys.com/wp-includes/js/jquery/ui/core.min.js?ver=1.11.4" type="text/javascr</pre>
        ipt">
          </script>
          <script src="https://www.wimerasys.com/wp-includes/js/jquery/ui/widget.min.js?ver=1.11.4" type="text/javas</pre>
        cript">
          </script>
          <script src="https://www.wimerasys.com/wp-includes/js/jquery/ui/mouse.min.js?ver=1.11.4" type="text/javasc</pre>
        ript">
          </script>
          <script src="https://www.wimerasys.com/wp-includes/js/jquery/ui/draggable.min.js?ver=1.11.4" type="text/ja</pre>
        vascript">
          </script>
```

<script src="https://www.wimerasys.com/wp-includes/js/jquery/ui/slider.min.js?ver=1.11.4" type="text/javas</pre>

cript">

```
In [12]:
           1 for link in soup2.find_all('a'):
                 print('Inner Text:{}'.format(link.text))
                 print('Title:{}'.format(link.get('title')))
           3
                 print('href:{}'.format(link.get('href')))
         href:https://www.wimerasys.com/about-us/
         Inner Text:
         Facebook
         Title:None
         href:https://www.facebook.com/WimeraSys
         Inner Text:
         Twitter
         Title:None
         href:https://twitter.com/systemswimera?lang=en
         Inner Text:
         Linkedin
         Title:None
         href:https://www.linkedin.com/company/wimera
         Inner Text:Top
         Title:Scroll to Top
         href:#
```

#### 3. Taking a second URL and store it in 'url3'

```
In [13]:
           1 url3='https://signzy.com/'
           2 html_content3=requests.get(url3).text
           3 soup3=BeautifulSoup(html content3,'lxml')
           4 print(soup3.prettify())
         <!DOCTYPE html>
         <html class="no-js no-svg" lang="en-US" prefix="og: https://ogp.me/ns#"> (https://ogp.me/ns#">)
          <head>
           <meta charset="utf-8"/>
            <meta content="width=device-width, initial-scale=1" name="viewport"/>
           <link href="http://gmpg.org/xfn/11" rel="profile"/>
           <!--[if lt IE 9]>
                          <script src="https://signzy.com/wp-content/themes/signzy/assets/js/html5.js"></script>
                          <![endif]-->
           <link href="https://signzy.com/wp-content/themes/signzy/assets/css/custom.css" rel="stylesheet" type="tex</pre>
         t/css"/>
            <title>
            AI | Digital Onboarding | Video KYC | ID checks
            </title>
            <!-- All in One SEO 4.1.2.2 -->
           <link href="https://signzy.com/" rel="canonical"/>
            <meta content="Signzy" property="og:site_name"/>
           <meta content="article" property="og:type"/>
            <meta content="AI | Digital Onboarding | Video KYC | ID checks" property="og:title"/>
```

```
In [14]:
           1 for link in soup3.find_all('a'):
                 print('Inner Text:{}'.format(link.text))
                 print('Title:{}'.format(link.get('title')))
           3
                 print('href:{}'.format(link.get('href')))
         href:https://www.facebook.com/TeamSignzy/
         Inner Text:
         Twitter
         Title:Twitter
         href:https://twitter.com/TeamSignzy
         Inner Text:
         AngelCo
         Title:AngelCo
         href:https://angel.co/signzy/
         Inner Text:
         Instagram
         Title:Instagram
         href:https://www.instagram.com/teamsignzy/
```

## 4. Taking a second URL and store it in 'url4'

```
In [15]:
           1 url4='https://www.smartjoules.co.in/'
           2 html content4=requests.get(url4).text
           3 soup4=BeautifulSoup(html content4, 'lxml')
              print(soup4.prettify())
         t}.search submit input{background:#fb8c00!important;color:#000!important;font-weight:bold!important;border-r
         adius:5px!important;border:none!important}.single job listing .meta .job-type{background:transparent!importa
         nt; font-weight: bold \}. job filters . job types li{list-style-type: none! important \}. single job listing . job-listi
         ng-meta li{list-style-type:none!important}.post-content .post-meta{display:none}.meta .location a{color:#00
         0!important}.job-listing-meta .date-posted{color:#000!important}.job application .application button{backgro
         und:#fb8c00!important;color:#000!important;font-weight:bold!important;border-radius:5px!important;border:non
         e!important}.share-options a{color:#fe7e17!important}.page-title-subtitle{margin-bottom:0!important}.job lis
         tings a .date{display:none!important}.single job listing .date-posted{display:none!important}#header{padding
          -top:16px;padding-bottom:5px}
            </style>
            <link href="https://www.smartjoules.co.in/wp-content/themes/patti/css/prettyPhoto.css?ver=5.4.8" id="dt-pr</pre>
         ettyphoto-lightbox-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.smartjoules.co.in/wp-content/themes/patti/css/superfish.css?ver=5.4.8" id="dt-supe</pre>
         rfish-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.smartjoules.co.in/wp-content/themes/patti/framework/fonts/font-awesome/css/font-aw</pre>
         esome.css?ver=5.4.8" id="dt-font-awesome-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.smartjoules.co.in/wp-content/themes/patti/css/audioplayer.css?ver=5.4.8" id="dt-au</pre>
         dioplayer-css" media="all" rel="stylesheet" type="text/css"/>
            <link href="https://www.smartjoules.co.in/wp-content/themes/patti/css/owl.carousel.css?ver=5.4.8" id="dt-o</pre>
```

wil-canousal-css" madia-"all" nal-"stylashaat" tyna-"tayt/css"/\

```
In [16]:
           1 for link in soup4.find all('a'):
                 print('Inner Text:{}'.format(link.text))
           3
                 print('Title:{}'.format(link.get('title')))
                 print('href:{}'.format(link.get('href')))
         href:http://www.berkeley.edu/
         Inner Text:Tweets by @SmartJoules
         Title:None
         href:https://twitter.com/SmartJoules
         Inner Text:info@smartjoules.in
         Title:None
         href:mailto:info@smartjoules.in
         Inner Text:https://www.facebook.com/SmartJoulesIndia/
         Title:None
         href:https://www.facebook.com/SmartJoulesIndia/
         Inner Text:
         Title:None
         href:https://unreasonablegroup.com/c/?id=5c2de5f4-9476-4f4f-b92e-331af50f08f3
         Inner Text:Locate us on Map
         Title:None
         href:None
         Inner Text:
         Title:None
         href:#
```

#### 5. Taking a second URL and store it in 'url5'

```
In [17]:
           1 url5='https://www.indusos.com//'
           2 html content5=requests.get(url5).text
             soup5=BeautifulSoup(html content5,'lxml')
             print(soup5.prettify())
           <link href="https://www.indusos.com/comments/feed/" rel="alternate" title="Indus OS » Comments Feed" type</pre>
         ="application/rss+xml"/>
           <script type="text/javascript">
            window. wpemojiSettings = {"baseUrl":"https:\/\/s.w.org\/images\/core\/emoji\/13.0.1\/72x72\/","ext":".pn
         g","svgUrl":"https:\/\/s.w.org\/images\/core\/emoji\/13.0.1\/svg\/","svgExt":".svg","source":{"concatemoj
         i":"https:\/\/www.indusos.com\/wp-includes\/js\/wp-emoji-release.min.js?ver=5.6.4"}};
                                 !function(e,a,t){var n,r,o,i=a.createElement("canvas"),p=i.getContext&&i.getContext
         ("2d");function s(e,t){var a=String.fromCharCode;p.clearRect(0,0,i.width,i.height),p.fillText(a.apply(this,
         e),0,0);e=i.toDataURL();return p.clearRect(0,0,i.width,i.height),p.fillText(a.apply(this,t),0,0),e===i.toDat
         aURL()}function c(e){var t=a.createElement("script");t.src=e,t.defer=t.type="text/javascript",a.getElementsB
         yTagName("head")[0].appendChild(t)}for(o=Array("flag","emoji"),t.supports={everything:!0,everythingExceptFla
         g:!0},r=0;r<o.length;r++)t.supports[o[r]]=function(e){if(!p||!p.fillText)return!1;switch(p.textBaseline="to
         p",p.font="600 32px Arial",e){case"flag":return s([127987,65039,8205,9895,65039],[127987,65039,8203,9895,650
         39])?!1:!s([55356,56826,55356,56819],[55356,56826,8203,55356,56819])&&!s([55356,57332,56128,56423,56128,5641
         8,56128,56421,56128,56430,56128,56423,56128,56447],[55356,57332,8203,56128,56423,8203,56128,56418,8203,5612
         8,56421,8203,56128,56430,8203,56128,56423,8203,56128,56447]);case"emoji":return!s([55357,56424,8205,55356,57
         212],[55357,56424,8203,55356,57212])}return!1}(o[r]),t.supports.everything=t.supports.everything&&t.supports
         [o[r]], "flag"!==o[r]&&(t.supports.everythingExceptFlag=t.supports.everythingExceptFlag&&t.supports[o[r]]);t.
         supports.everythingExceptFlag=t.supports.everythingExceptFlag&&!t.supports.flag,t.DOMReady=!1,t.readyCallbac
```

```
In [18]:
           1 for link in soup5.find all('a'):
                 print('Inner Text:{}'.format(link.text))
           2
           3
                 print('Title:{}'.format(link.get('title')))
                  print('href:{}'.format(link.get('href')))
           4
         Inner Text:We are hiring!
         Title:None
         href:/careers
         Inner Text:x
         Title:None
         href:#
         Inner Text:
                                  Skip to content
         Title:None
         href:#content
         Inner Text:
         Title:Indus OS
         href:https://www.indusos.com/
         Inner Text:Home
         Title:None
         href:https://www.indusos.com/
         Inner Text:About us
         Title:None
         href:https://www.indusos.com/about-us/
         Inner Text:Indus App Bazaar
         Title:None
         href:https://www.indusos.com/indus-app-bazaar/
         Inner Text:Blog
         Title:None
         href:https://www.indusos.com/blog/
         Inner Text:Developer Login
         Title:None
         href:https://developer.appbazaar.com/
         Inner Text:
         Title:Indus OS
         href:https://www.indusos.com/
         Inner Text:Home
         Title:None
         href:https://www.indusos.com/
         Inner Text:About us
         Title:None
         href:https://www.indusos.com/about-us/
```

```
Inner Text:Indus App Bazaar
Title:None
href:https://www.indusos.com/indus-app-bazaar/
Inner Text:Blog
Title:None
href:https://www.indusos.com/blog/
Inner Text:Developer Login
Title:None
href:https://developer.appbazaar.com/
Inner Text:Learn More
Title:None
href:/indus-app-bazaar/
Inner Text:Learn More
Title:None
href:/about-us/
Inner Text:Indus App Bazaar
Title:None
href:#
Inner Text:Indus One
Title:None
href:#
Inner Text:Prisma
Title:None
href:#
Inner Text:Learn More
Title:None
href:/indus-app-bazaar/
Inner Text:Learn More
Title:None
href:/indus-one/
Inner Text:Learn More
Title:None
href:/prisma/
Inner Text:
Title: Need For App Fairness, Choice and Innovation In the App Store Ecosystem
href:https://www.indusos.com/blog/need-for-app-fairness-choice-and-innovation-in-the-app-store-ecosystem/
Inner Text: Need For App Fairness, Choice and Innovation In the App Store Ecosystem
Title:None
href:https://www.indusos.com/blog/need-for-app-fairness-choice-and-innovation-in-the-app-store-ecosystem/
Inner Text:October 7, 2021November 17, 2021
Title:5:46 pm
href:https://www.indusos.com/blog/need-for-app-fairness-choice-and-innovation-in-the-app-store-ecosystem/
Inner Text:Read more →
```

```
Title: Need For App Fairness, Choice and Innovation In the App Store Ecosystem
href:https://www.indusos.com/blog/need-for-app-fairness-choice-and-innovation-in-the-app-store-ecosystem/
Inner Text:
Title:Indus OS Celebrates 200 Million Users
href:https://www.indusos.com/blog/indus-os-celebrates-200-million-users/
Inner Text:Indus OS Celebrates 200 Million Users
Title:None
href:https://www.indusos.com/blog/indus-os-celebrates-200-million-users/
Inner Text:September 24, 2021November 17, 2021
Title:6:40 pm
href:https://www.indusos.com/blog/indus-os-celebrates-200-million-users/
Inner Text:Read more →
Title:Indus OS Celebrates 200 Million Users
href:https://www.indusos.com/blog/indus-os-celebrates-200-million-users/
Inner Text:
Title:Indus App Bazaar encourages developers to build local solutions for their audience
href:https://www.indusos.com/media-story/indus-app-bazaar-encourages-developers-to-build-local-solutions-for-t
heir-audience/
Inner Text:Indus App Bazaar encourages developers to build local solutions for their audience
Title:None
href:https://www.indusos.com/media-story/indus-app-bazaar-encourages-developers-to-build-local-solutions-for-t
heir-audience/
Inner Text: August 21, 2021 August 24, 2021
Title:7:56 pm
href:https://www.indusos.com/media-story/indus-app-bazaar-encourages-developers-to-build-local-solutions-for-t
heir-audience/
Inner Text:Read more →
Title:Indus App Bazaar encourages developers to build local solutions for their audience
href:https://www.indusos.com/media-story/indus-app-bazaar-encourages-developers-to-build-local-solutions-for-t
heir-audience/
Inner Text:+9122 45101451
Title:None
href:tel:02245101451
Inner Text:About Us
Title:None
href:/about-us/
Inner Text:Media
Title:None
href:/media/
Inner Text:Corporate
Title:None
href:/corporate-information
Inner Text:Indus App Bazaar
```

```
Title:None
href:/indus-app-bazaar/
Inner Text:Indus One
Title:None
href:/indus-one/
Inner Text:Prisma
Title:None
href:/prisma/
Inner Text:Careers
Title:None
href:/careers/
Inner Text:FAQs
Title:None
href:/faq/
Inner Text:Contact Us
Title:None
href:/contact-us/
Inner Text:Privacy Policy
Title:None
href:/privacy-policy-and-terms-of-use/
Inner Text:
Title:None
href:https://www.facebook.com/indusos/
Inner Text:
Title:None
href:https://mobile.twitter.com/indusos
Inner Text:
Title:None
href:https://www.linkedin.com/company/indusos/
Inner Text:
Title:None
href:https://www.youtube.com/channel/UCPJqw2f-WCc0SmLuZl2Rhew
Inner Text:
Title:None
href:https://www.instagram.com/indusappbazaar/
Inner Text:Terms of Use
Title:None
href:/privacy-policy-and-terms-of-use/
```

6. Now what ever the information of mode of contact we got from above scraps we can populate in a saperate tablualar chart.

```
In [53]:
           1 # For making a Table We have to import pandas library
             import pandas as pd
           3
In [54]:
              table=pd.DataFrame({'websites':[url1,url2,url3,url4,url5],
                                   'Twitter':['twitter.com/purple docs',
           3
                                               'twitter.com/systemswimera',
                                               'twitter.com/TeamSignzy',
           4
                                               'twitter.com/SmartJoules',
           5
           6
                                               'mobile.twitter.com/indusos'],
           7
                                   'Contact_no':['919909903539',
           8
           9
          10
                                                  '+91- 11- 46046513',
                                                  '+9122 45101451'<sub>]</sub>,
          11
                                   'Email':['',
          12
          13
          14
                                             'info@smartjoules.in',
          15
                                             'grievances@indusos.com'],
          16
                                   "Instagram":['https://www.linkedin.com/company/purpledocshealthtech/',
          17
                                                 'https://www.linkedin.com/company/wimera',
          18
                                                 'https://www.linkedin.com/company/teamsignzy/',
          19
                                                ٠٠,
          20
                                                 'https://www.instagram.com/indusappbazaar/'],
          21
          22
                                     "Facebook":['https://www.facebook.com/PurpleDocs/',
                                                  'https://www.facebook.com/WimeraSys',
          23
                                                  'https://www.facebook.com/TeamSignzy/',
          24
          25
                                                  'https://www.facebook.com/SmartJoulesIndia/',
```

'https://www.facebook.com/indusos/']})

26

In [55]: 1 table

Out[55]:

Instagra	Email	Contact_no	Twitter	websites	
https://www.linkedin.com/company/purpledocshea		919909903539	twitter.com/purple_docs	https://www.purpledocs.com/	0
https://www.linkedin.com/company/wime			twitter.com/systemswimera	https://www.wimerasys.com/	1
https://www.linkedin.com/company/teamsignz			twitter.com/TeamSignzy	https://signzy.com/	2
	info@smartjoules.in	+91- 11- 46046513	twitter.com/SmartJoules	https://www.smartjoules.co.in/	3
https://www.instagram.com/indusappbazaa	grievances@indusos.com	+9122 45101451	mobile.twitter.com/indusos	https://www.indusos.com//	4

Submitted by: Ashwin Gorakhnath Dubey

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