

21162101012_CBA_Yash

Practical 1: Suppose you are planning to buy a product online (like, a mobile phone or laptop) and you will check the e-commerce website from where you wish to buy. As a responsible customer, you will be checking all the items available in different brand and specification, cost variation. All those details you need to go through the products one by one to select the best one. It will take lots of time and efforts. So now to ease your work, extract all the information from website and store that details in the tabular format or an excel file. For an e.g. Storing all the details of phone like brand name, specification and price in a table, so that it will be easy for us to analyse.

Web Scrapping

Available libraries :

- BeautifulSoup
- Selenium

```
!pip install bs4
import requests
from bs4 import BeautifulSoup
```

```
Requirement already satisfied: bs4 in /usr/local/lib/python3.10/dist-packages (0.0.2)
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.10/dist-packages (from bs4) (4.12.3)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.10/dist-packages (from beautifulsoup4->bs4) (2.5)
```

```
URL = 'https://yashlakhtariya.github.io/'
page = requests.get(URL)
soup = BeautifulSoup(page.content, 'html.parser')
```

soup

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="utf-8"/>
<meta content="IE=edge" http-equiv="X-UA-Compatible"/>
<meta content="width=device-width, initial-scale=1.0" name="viewport"/>
<title>YSL Portfolio</title>
<!-- font awesome cdn link -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css" rel="stylesheet"/>
<!-- custom css file link -->
<link href="css/style.css" rel="stylesheet"/>
<link href="https://fonts.googleapis.com" rel="preconnect"/>
<link crossorigin="" href="https://fonts.gstatic.com" rel="preconnect"/>
<link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet"/>
</head>
<body>
<!-- header section starts -->
<header class="header">
<a class="logo" href="#">~ Yash Lakhtariya</a>
<nav class="navbar">
<a href="#banner">home</a>
<a href="#cowbot">my projects</a>
<a href="#contact">contact me</a>
<a href="ysl.pdf">download PDF</a>
</nav>
<div class="icons">
<i class="fas fa-bars" id="menu-bars"></i>
<i class="fas fa-search" id="search-icon"></i>
</div>
<form action="" class="search-form">
<input id="search-box" name="" placeholder="search here..." type="search"/>
<label class="fas fa-search" for="search-box"></label>
</form>
</header>
<!-- header section ends -->
<br/><br/><br/><br/><br/>
<!-- posts section starts -->
<section class="container" id="posts">
<div class="posts-container">
<div class="box">
<h3 class="title" style="text-align: center;">about me</h3>
<div class="about">

<h3>Yash Lakhtariya</h3>
<p>Primarily a spiritual seeker, servant of God, in service of Worldwide Hare Krishna Movement and a computer science student having interest in Free and Open Source Projects like Linux, Android and have tried the most popular linux distros. Good at functional programming and backend, various color combinations in UI designing and styling UI elements.</p>
<div class="follow">
<a class="fab fa-github" href="https://github.com/yashlakhtariya" target="_blank"></a>
<a class="fab fa-whatsapp" href="https://wa.me/916351573711" target="_blank"></a>
<a class="fab fa-telegram" href="https://t.me/soul4krishna" target="_blank"></a>
```

```
<a class="fab fa-instagram" href="https://instagram.com/soul4krishna" target="_blank"></a>
</div>
</div>
<br/>
<div class="box">
```

```
projects = soup.find_all('div', class_='post')
```

```
print(f"YSL Projects : \n")
```

```
for project in projects:
```

```
    project_title = project.find('h3', class_='title').text.strip()
```

```
    project_description = project.find('p', class_='text').text.strip()
```

```
    print(f"Project Title: {project_title}")
```

```
    print(f"Project Description: {project_description}")
```

```
    print('-' * 300)
```

YSL Projects :

Project Title: Cowbot v1

Project Description: Everyone needs Assistant to make their work easy! So applies to operating systems. Have you ever thought

Project Title: Cowbot v2

Project Description: An improved and completely redesigned version of Cowbot AI Linux Assistant targeted primarily at extending

Project Title: Cowbot v3

Project Description: Replacing Java with Kotlin in the application increased Cowbot's speed and performance almost 3x and using

Project Title: Leobot

Project Description: Premium version of Cowbot which as paid. Leo replaces Cow and gives premium experience primarily with aud: