

10.0.2 Module 10 Roadmap

Looking Ahead

In this module, you'll automate a web browser to visit different websites to extract data about the Mission to Mars. You'll store it in a NoSQL database, and then render the data in a web application created with Flask. The completed work will be displayed in your portfolio, which you will also create.

Web scraping is a method used by organizations worldwide to extract online data for analysis. Large companies employ web scraping to assess their reputations or track their competitors' online presence.

On a smaller scale, web scraping automates tedious tasks for

Module 9:
Surf's Up!
Complete



Unit:
Visualizations

Module 10:
Mission to Mars

Build an app to scrape websites for data pertaining to the Mission to Mars, and then create an HTML page to display your findings.



Module 11:
UFO Sightings

personal projects. For example, if you're collecting current news on a specific subject, web scraping can make it a simple process. Instead of visiting each website and copying an article, a web scraping script will perform those actions and save the scraped data for later analysis.



UFO Sightings
with JavaScript

What You Will Learn

By the end of this module, you will be able to:

- Gain familiarity with and use HTML elements, as well as class and id attributes, to identify content for web scraping.
- Use BeautifulSoup and Splinter to automate a web browser and perform a web scrape.
- Create a MongoDB database to store data from the web scrape.
- Create a web application with Flask to display the data from the web scrape.
- Create an HTML/CSS portfolio to showcase projects.
- Use Bootstrap components to polish and customize the portfolio.

Planning Your Schedule

Here's a quick look at the lessons and assignments you'll cover in this module. You can use the time estimates to help pace your learning and plan your schedule.

- Introduction (15 minutes)
- Get Started Using Web Scraping Tools (1 hour)

- Open the Window to the Internet (2 hours)
- Automate a Web Browser and Perform a Web Scrape (3 hours)
- Access Data in MongoDB (1 hour)
- Display Data With Flask (3 hours)
- Make It Pretty (3 hours)
- Show It Off (2 hours)
- Application (5 hours)

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