

1..Explain why selenium is important in web scraping?

Ans. Selenium is an automation testing framework for web applications/websites which can also control the browser to navigate the website just like a human. Selenium uses a web-driver package that can take control of the browser and mimic user-oriented actions to trigger desired events.

Locating data on a website is one of the main use cases for Selenium, either for a test suite (making sure that a specific element is present/absent on the page) or to extract data and save it for further analysis (web scraping).

2. What is the difference between scraping images and Scraping websites? Use an example to demonstrate your point?

Ans. Scraping Is a very essential skill for everyone to get data from any website. In this article, we are going to see how to scrape images from websites using python. For scraping images, we will try different approaches.

Scraping the websides, Web scraping would involve scraping specific information from a particular web page oranalysis webscraping extracting data from websites in an automated manner.

It's a programmatic analysis of a web page to download information from it.

3. Explain how MongoDB indexes data.

Ans. MongoDB uses multikey indexes to index the content stored in arrays. If you index a field that holds an array value, MongoDB creates separate index entries for every element of the array. These multikey indexes allow queries to select documents that contain arrays by matching on element or elements of the arrays. Indexes can be created by using the createIndex method. Indexes can be created on just one field or multiple field values. Indexes can be found by using the getIndexes method. Indexes can be removed by using the dropIndex for single indexes or dropIndexes for dropping all indexes.

4. What is the significance of SET modifier.

Ans. Set expressions are used to define the scope of a calculation. The central part of the set expression is the set modifier that specifies a selection. This is used to modify the user selection, or the selection in the set identifier, and the result defines a new scope for the calculation.

A set modifier modifies the selection of the preceding set identifier. If no set identifier is referenced, the current selection state is implicit. Returns the sales for the current selection where OrderDate = DeliveryDate. Returns the sales for region US, disregarding the current selection.

5. Explain the MongoDB aggregation framework.

Ans.The aggregation framework is a set of analytics tools within MongoDB that allows us to run various types of reports or analysis on documents in one or more collections. Based on the idea of a pipeline.

The MongoDB Aggregation Framework is a way to query the data from MongoDB. It helps us to break the complex logics into a simple set of sequential operations. Just like a waterfall model, Output from one stage is fed as an input for the next stage until the desired result is achieved.

