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| **SESSION** | **MARCH 2024** |
| **PROGRAM** | **MASTER OF BUSINESS ADMINISTRATION (MBA)** |
| **SEMESTER** | **IV** |
| **COURSE CODE & NAME** | **DADS404 – DATA SCRAPING** |
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**Assignment Set – 1**

**1. Explain the significance of data scraping in the digital age, covering its applications, advantages, and challenges. Provide examples from different industries to illustrate its diverse uses.**

**Ans 1.**

**Significance of Data Scraping in the Digital Age**

Data scraping, the process of extracting data from websites and converting it into a structured format for further use, has become a cornerstone of digital strategies across various industries. Its significance in the digital age cannot be overstated, as it enables businesses to leverage vast amounts of online information to drive decision-making, innovate, and maintain competitive advantages.

**Applications of Data Scraping**

Data scraping has diverse applications across multiple sectors:

* **E-commerce**: Retailers use data scraping to monitor competitor pricing and inventory

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**2. Compare and contrast manual scraping with API-based scraping methods. Discuss the advantages and limitations of each approach, providing real-world examples to support your explanation.**

**Ans 2.**

**Comparing Manual Scraping and API-Based Scraping Methods**

In the realm of data extraction, manual scraping and API-based scraping are two primary methods employed by businesses and developers. Each approach has distinct characteristics, advantages, and limitations, making them suitable for different scenarios. Understanding these differences is crucial for choosing the right method for specific data collection needs.

**Manual Scraping**

Manual scraping involves writing custom code to parse HTML pages and extract data. This

**3. Discuss the importance of data quality in the context of data scraping. Explain how data wrangling techniques can be used to enhance the quality of scraped data, highlighting specific tasks involved in the data wrangling process.**

**Ans 3.**

**The Importance of Data Quality in Data Scraping**

Data scraping, an essential technique for gathering information from the web, hinges significantly on the quality of the data extracted. High-quality data is critical for accurate analysis and decision-making. Poor data quality can lead to misguided insights, faulty decisions, and diminished trust in data-driven processes. Therefore, ensuring data quality in the context of data scraping is paramount for any organization relying on web-extracted

**Assignment Set – 2**

**1. Explain the ethical considerations associated with data scraping, focusing on issues such as privacy, copyright infringement, and terms of service violations. Discuss strategies to mitigate these ethical concerns while scraping data from online sources.**

**Ans 1.**

**Ethical Considerations in Data Scraping**

Data scraping, while a powerful tool for collecting information from the internet, raises several ethical considerations that need to be addressed. These issues primarily revolve around privacy, copyright infringement, and violations of terms of service. Navigating these ethical waters is crucial for maintaining the integrity of the scraping process and ensuring legal compliance.

**Privacy Concerns**

Privacy is a significant ethical concern in data scraping, especially when dealing with

**2. Outline the steps involved in scraping data from dynamic websites. Identify the challenges that arise when scraping such websites and propose solutions to overcome these challenges effectively.**

**Ans 2.**

**Steps in Scraping Data from Dynamic Websites**

Dynamic websites present unique challenges for data scraping due to their content that changes based on user interactions and is often loaded asynchronously using JavaScript. Scraping data from such websites requires more advanced techniques than those used for static websites. Here’s an outline of the steps involved:

**Step 1: Analyzing the Website**

Before attempting to scrape a dynamic website, it's essential to understand how the data is

**3. Discuss the role of APIs in data scraping processes. Provide examples of popular APIs used for data scraping and explain how they facilitate efficient data retrieval and analysis.**

**Ans 3.**

**The Role of APIs in Data Scraping**

APIs (Application Programming Interfaces) play a pivotal role in the data scraping landscape by providing a structured way to access data from software applications. They serve as a bridge between data providers and users, enabling the efficient retrieval, manipulation, and analysis of data. This approach is often more reliable and less legally contentious compared to traditional web scraping methods.

**How APIs Facilitate Data Scraping**

APIs offer direct access to a server's data, bypassing the need to parse HTML from a