

Automated Web Data Extraction Routine

Data Extraction

Posted 11 minutes ago

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Overview:

We are seeking a skilled data extraction expert to develop an automated logic that will enable the extraction of data from a specific website on a regular basis. This system should not only retrieve data but also identify any new, modified, or deleted content since the last extraction. The goal is to create an efficient and reliable process for keeping our data up-to-date and relevant.

Key Objectives:

Data Extraction: Design a robust data extraction process to fetch specific data elements from the target website.

Regular Updates: Implement a scheduling mechanism to periodically retrieve data at specified intervals (e.g. weekly, monthly).

Change Detection: Develop logic to compare newly extracted data with the previously stored dataset and identify any differences (new, modified, deleted content).

Data Storage: Store both the raw and processed data in a secure and organized manner for easy access and analysis.

Notifications: Implement a notification system to alert relevant stakeholders when significant changes are detected.

Requirements:

Expertise in web scraping and data extraction techniques, including handling various data formats (HTML, XML, JSON, etc.).

Proficiency in programming languages such as Python, Java, or similar, for automation and data manipulation.

Knowledge of database management systems to store and manage extracted data efficiently.

Experience with change detection algorithms or methodologies.

Ability to work with scheduling tools or frameworks for automated data retrieval.

Security and privacy considerations in data handling and storage.

Documentation of the entire process, including code, configurations, and workflow.

Deliverables:

- 1. Automated data extraction and change detection system/workflow that shares data .
- 2. Detailed documentation on the system's setup, configuration, and usage.
- 3. A secure and organized data storage solution.
- 4. Notification mechanism for detecting significant changes.

Timeline:

The project timeline and milestones will be discussed and finalized with the selected candidate, taking into account the complexity of the website, frequency of updates, and other relevant factors.

Budget:

The budget for this project will be negotiated based on the candidate's experience, proposed solution, and expected timeline.

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Project Type: Ongoing project

Skills and Expertise

Data Extraction Deliverables

Other

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Activity on this job

Proposals:	5 to 10
Interviewing:	0
Invites sent:	0
Unanswered invites:	0