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Task : Developing a Web Scraper for Amazon's Best Sellers

Technical Specifications

- Use **Python** and the **Selenium** library for web scraping.
- Implement robust **error handling** to address exceptions like timeouts or missing elements.
- Comply with **Amazon's terms of service** for scraping data responsibly.

Data Storage

- Save the collected data in a **CSV** or **JSON** format for future analysis.

Error Handling

- Implement exception handling for common issues:
  - **Timeouts**: Retry when elements are not found within the expected time.
  - **Missing Data**: Handle cases where some product details are unavailable.

Compliance Measures

- Introduce delays between page loads to mimic human behavior.
- Avoid overloading Amazon's servers by setting appropriate crawling intervals.

Usage Guidelines

Running the Script

1. Open a terminal in the project directory.

   Execute the script:
   `python amazon_scraper.py`

Viewing the Output

- After execution, the scraped data is stored in the `output/` directory.
- Example files:
  - `best_sellers_data.csv`
  - `best_sellers_data.json`