TEST #1

Automation Challenge: Website Design Scoring & Reporting Tool
Description: Develop an automated system that by entering a URL, generate a comprehensive design assessment with scoring, visual documentation, and exportable reports that demonstrate design expertise and identify improvement opportunities.

Task:

1.   Use a website URL as the input
2.   Automated Homepage Screenshot Capture and Cloud Storage
    o   Upon valid input, capture a high-quality screenshot of the homepage.
    o   Save/upload the screenshot to a cloud service (e.g., Google Drive, Dropbox, S3).
3.   Design Evaluation Engine
    o   Analyze the captured homepage for key design principles:
        ♣   Typography (legibility, font size/contrast/hierarchy)
        ♣   Color (harmony, accessibility)
        ♣   Modern Layout (structure, whitespace)
    o   The evaluation logic can rely on rule-based checks, computer vision, or any LLM or AI models
4.   Scoring Algorithm (0–100) with Weighted Criteria
    o   Each design principle is weighted (e.g., Usability 30%, Mobile Responsiveness 20%...) and contributes to the final score.
    o   The scoring approach can combine rule-based, statistical, or even LLM-powered analysis for richer explanations. Expect a configuration file or constants for weights.
5.   Report Generation: Explanation & Recommendations
    o   Create a PDF or shareable web report showing:
        ♣   The screenshot.
        ♣   The overall score and category breakdowns.
        ♣   A brief explanation of each area's score.
        ♣   Actionable, itemized improvement tips for low scores.
6.   Google Sheets Integration
    o   Automatically log each evaluated site's:
        ♣   URL, timestamp, score, and summary findings (bonus for adding screenshot thumbnails/links).
7. Share results
    o   The final deliverable must be a PDF document that includes either: (i) a URL linking to a recorded demonstration video showcasing the functionality and execution of the tool, or (ii) a direct URL to access and run the automation.