

# Hiring Assignment: Video Analysis Agent

## Objective

Build an **Analysis Agent** that evaluates whether a Hercules test run was executed as planned. It does this by comparing:




- The **agent's planning log (thoughts/steps)**
- The **video evidence** of the run
- The **final test output**

Your goal is to detect if the steps the agent *claimed* to take are actually *visible in the video*. If any claimed action was skipped, altered, or not visibly performed — your agent should flag the deviation.

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## Inputs

You'll be provided with the following Hercules test artifacts:

-  One or more **video recordings** of the test run.
  -  A **planning log** representing the agent's internal steps or reasoning.
  -  The **final test output** as generated by Hercules.
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## Processing Steps

### 1. Parse the Planning Log

Extract the intended step-by-step actions the agent was supposed to take.

### 2. Inspect the Video(s)

Determine whether each claimed action is visibly executed in the video(s).

Multiple videos may need to be coordinated for full coverage.

### 3. Cross-check with Final Output

Use the final test output as a reference to validate consistency and outcome alignment.



## Expected Output

Produce a **deviation report** that, for each claimed step, indicates:

Step Description	Result	Notes
Click “Login”	✓ Observed	-
Enter Password	✗ Deviation	Step skipped in video from 00:21
Submit Form	✓ Observed	

If everything matches:

➡ **“No deviations detected.”**

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## Requirements

- **Language/Framework:** Your choice. Use Python, TypeScript, etc. Use orchestration frameworks like **AutoGen**, **LangChain**, **Haystack**, or **your own tooling**.
- **Accuracy > Performance:** Focus on getting correct matches and clear reports rather than hyper-optimization.

- **Transparency:** Explain your decisions in README and video.
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## Deliverables



### 1. GitHub Repository




- Source code for the analysis agent
- Brief, clear README including:
  - How to run the agent
  - Where output is saved
  - Sample inputs and expected outputs

### 2. Video Walkthrough (Screen Recording)

- Explain your approach: input ingestion → step comparison → report generation
  - Show a live run on sample Hercules artifacts
  - Display of the final deviation report
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## Evaluation Criteria

Area	What We're Looking For
 Correctness	Accurately detects observed vs. deviated actions
 Thought Process	Rational explanation of architecture & methodology

-  Code Quality      Clean structure, readable, modular design
-  Documentation      Easy-to-follow README and instructions
-  Usability      Plug-and-play: drop files in → get a report out

## Reference

-  Hercules GitHub: <https://github.com/test-zeus-ai/testzeus-hercules>