

# Lights, Camera, Test!

## Let's Put the Fun in Non-Functionals

**Willem Keesman**  
Sopra Steria Netherlands

**Arnoud Gorter**  
CJIB Netherlands



# Agenda

- Introduction
- Learning objectives
- ISO25010 theory
- Take 1 (6 min)
- Take 2 (10 min)
- Take 3 (15 min)
- Break (15 min)
- Take 4 (15 min)
- Take 5 (15 min)
- PAAP Award show



# Introduction of speakers



## Introduction of speakers



# Learning objectives



## Learning objectives

- ISO 25010
- Learn how to write prompts effectively.
- Learn to work WITH and WITHOUT AI.
- Work in a team with diverse roles and expectations.

*We are available during each take to assist you.*



# So what is it all about?

Diving into ISO 25010



# ISO 25010:2023

- Also known as the “illity’s”
- Non-functional quality characteristics
- Origin of the model
- Elements of the model



## Why non-functionals/NFR?

- Coined in the 80's as non-logical requirements
- Operation of a system versus specific behaviors of that system
- NFR are also just REQUIREMENTS
- By design principles guarantee embedding of these quality characteristics in the functionality

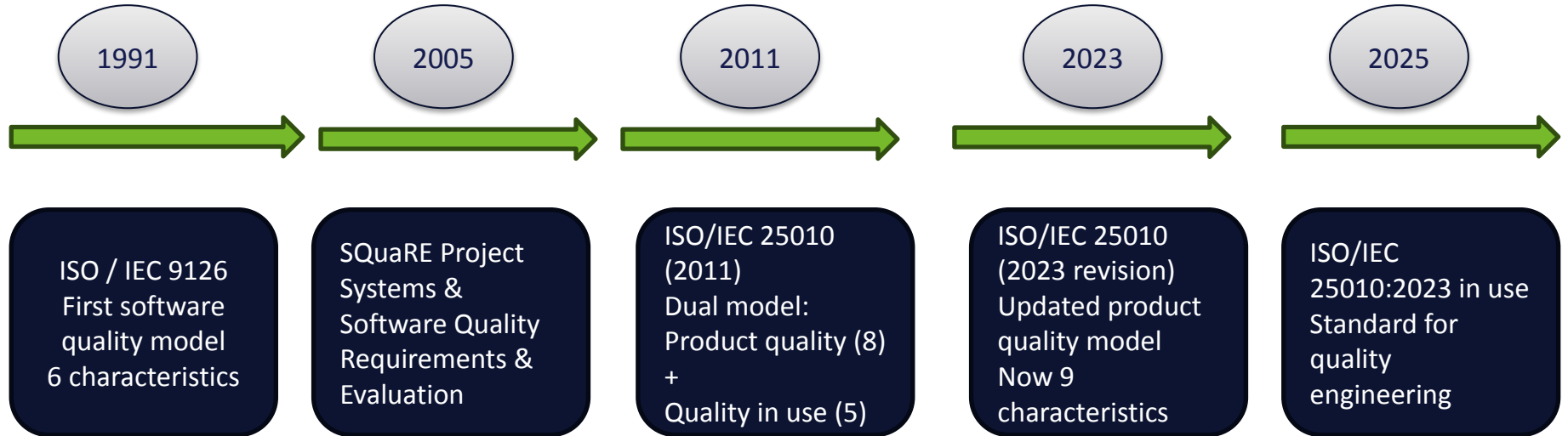


## New characteristics for AI (25059)

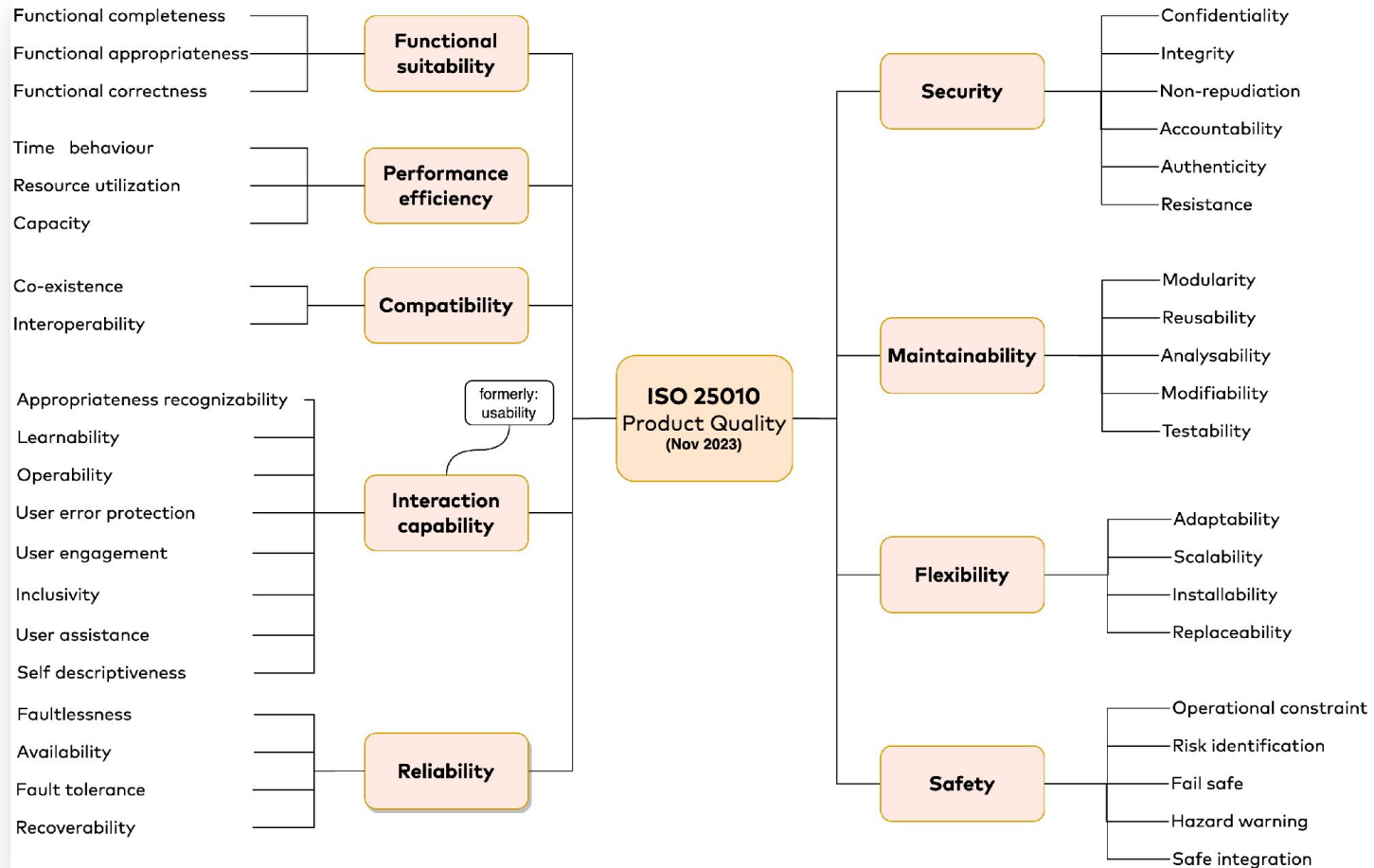
- Functional adaptability (F)
- User controllability (U)
- Transparency (U)
- Robustness ( R )
- Intervenability ( S )



# ISO25010: A brief history



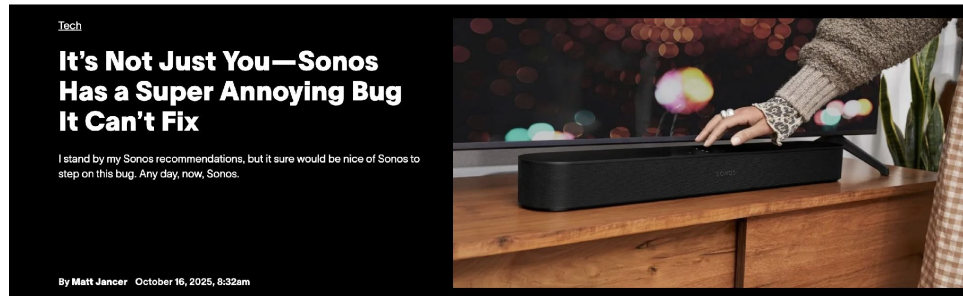
# The ISO 25010:2023 model



# Functional suitability

Consists of:

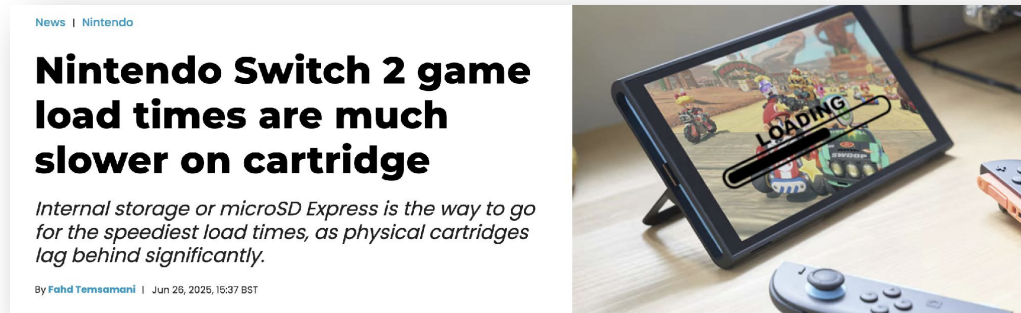
1. Functional completeness
2. Functional correctness
3. Functional appropriateness



# Performance efficiency

Consists of:

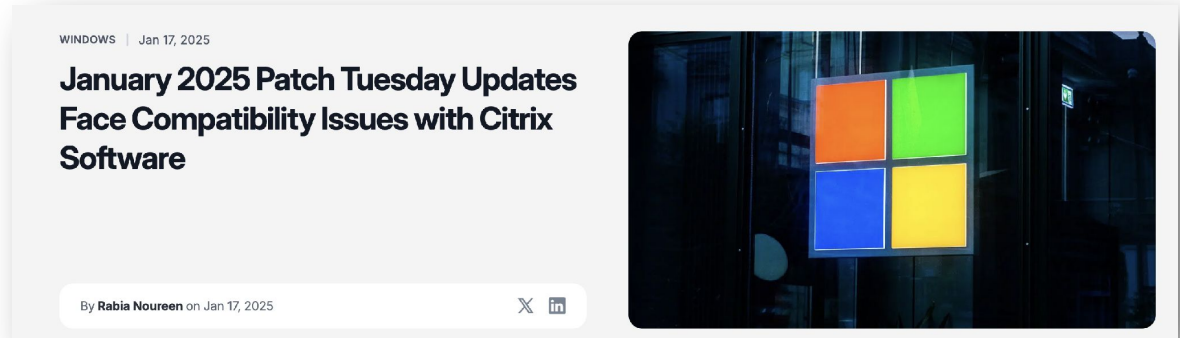
1. Time behaviour
2. Resource utilization
3. Capacity



# Compatibility

Consists of:

1. Co-existence
2. Interoperability



# Interaction capability (usability)

Consists of:

1. Appropriateness recognisability
2. Learnability
3. Operability
4. User error protection
5. User interface aesthetics
6. Accessibility

## "Steve Jobs would've fired everyone": iOS 26 Liquid Glass UI comes under fire for poor readability

Apple proudly showcased the new "Liquid Glass" UI design at the WWDC25. Coming to iOS 26, macOS 26, and iPadOS 26, the new design brings the properties of real glass, like refraction and translucency, to UI elements. However, this has prompted widespread criticism from users.

Fawad Murtaza, Published 06/11/2025 🇮🇳 ... Apple iOS Fail

Software



# Reliability

Consists of:

1. Availability
2. Fault tolerance
3. Recoverability



[Amazon](#) Web Services (AWS) – Amazon’s cloud unit – has published a detailed explanation, pinpointing a bug in its automation software as the root cause of the hours-long outage this week that took down thousands of popular sites and apps. AWS confirmed that a cascading series of events was triggered by a basic software flaw in the system that manages its vast digital database.

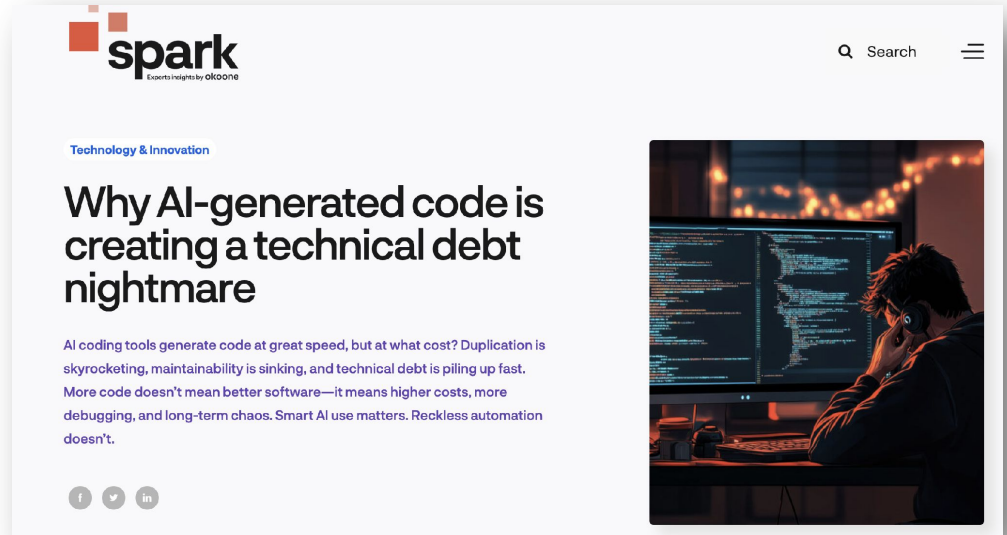
According to the company, the outage began when customers lost the ability to connect to DynamoDB, AWS’s core database system. This was due to a “latent defect within the service’s automated Domain Name System (DNS) management system.”



# Maintainability

Consists of:

1. Modularity
2. Reusability
3. Analyzability
4. Modifiability
5. Testability



# Security

Consist of:

1. Confidentiality
2. Integrity
3. Non-repudiation
4. Accountability
5. Authentic



## Gucci, Balenciaga & Alexander McQueen Victims of Major Data Breach via Salesforce Attack

September 16, 2025 By [Amar Ćemanović](#) – [Leave a Comment](#)



NTD

# Flexibility

Consists of:

1. Adaptability
2. Scalability
3. Installability
4. Replaceability

The cloud isn't infallible: Why even Google's 99.9% uptime can fail



(ANTHONY QUINTANO FROM MOUNT LAUREL, UNITED STATES, CC BY 2.0)

Posted Thursday, June 19, 2025 3:30 am



# Safety

- Added in 2023, with the aim of preventing harm
- Consists of:
  1. Operational Constraint
  2. Risk identification
  3. Fail-safe
  4. Hazard warning



# Why did they add safety?



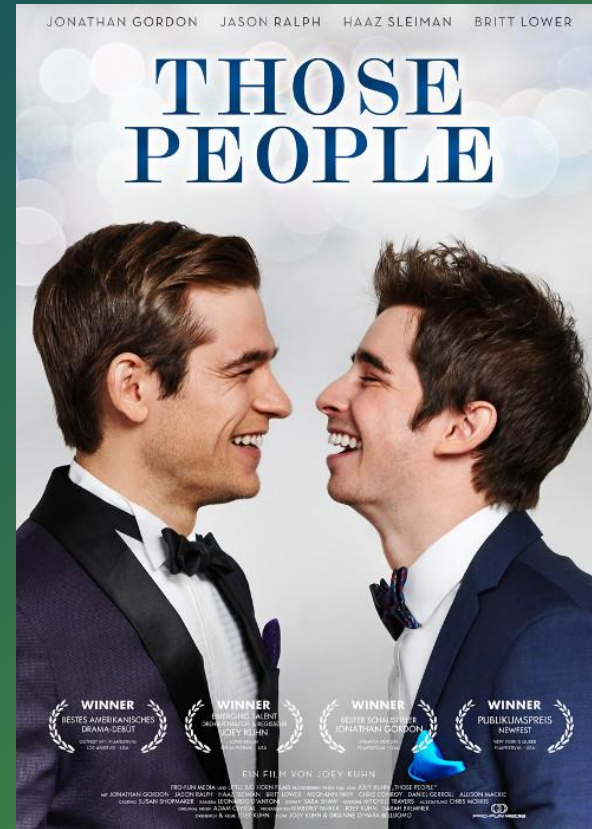


## TAKE 1: You are on your own now!

- GETTING TO KNOW YOUR TEAM (5 MIN)
- NAME YOUR PRODUCTION COMPANY (1 MIN)

# Getting to know your team

Who are those people?



ND

# Take 1: Who are those people?

6 min



- Who are you and why you are here?
- Which is your favorite film and why?
- Which film is on top of your to watch list? (5 min total)
  
- Name your production company (1 min)



## TAKE 2: Prepare your production company

- **ROLE DISTRIBUTION (5 MIN)**



# Choose your testiny



Dividing roles & responsibilities



# Director



## Personal skills

- Leader, scrum master, ability to make decisions under pressure

## Responsibilities

- Coordinating the process in the team, development and deployment
- Uploading files to Github
- Ensuring that chosen quality characteristic is properly represented



# Art director

## Personal skills

- Creative, able to make sketches, visually minded

## Responsibilities

- Sketches in early stage
- Create movie poster



# Movie critic

## Personal skills

- Attention to detail, good with feedback

## Responsibilities

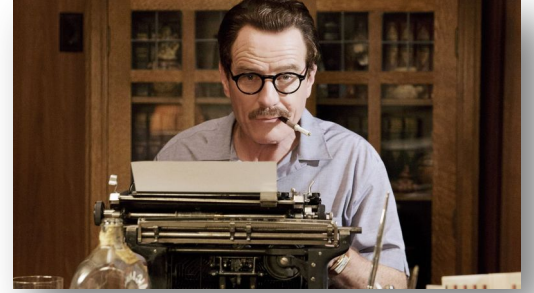
- Delivering feedback on own film and films of others
- Asking the questions that no one else dares to ask
- Rating the films

The image shows a page from a 'MOVIE CRITIC NOTEBOOK'. The page is designed for recording film information and providing a critique. It features several sections:

- MOVIE CRITIC NOTEBOOK**: The title at the top.
- Metadata Fields**: Fields for TITLE, DIRECTOR, YEAR, GENRE, LENGTH, ACTORS, and AWARDS.
- SUMMARY**: A large section for writing a brief overview of the film.
- HIGHLIGHTS & QUOTES**: A section for noting key moments or dialogue.
- TENSION CURVE**: A graph with 'TENSION' on the y-axis (1-5) and 'SECTION' on the x-axis. It includes a legend for 'INTRODUCTION', 'ACTING', and 'CLOSING'.
- ADDITIONAL NOTES**: A section for extra observations.
- RATING**: A section for rating different elements: PER. COST, DIRECTOR, SCREENPLAY, EFFECTS, COSTUMES, and OVERALL RATING, each with a five-star scale.



# Screen writer



## Personal skills

- Attention to detail, language oriented, spelling/grammar, scientific

## Responsibilities

- Ensures the movie script is consistent with the quality characteristics
- Reducing bias in the movie script
- Assure that the movie script doesn't contain typo's and errors (hallucinations)



# Producer



## Personal skills

- Outgoing, public speaker, enthusiastic

## Responsibility

- Delivering the pitch and promotion of the film
- Ensuring that throughout the process of development the film doesn't lose its appeal
- Motivating and stimulating the team.



5 min



## Take 2: Prepare your production company

- Every team member chooses their role (5 min)





## TAKE 3: Let's make a movie!

- **CHOOSE A GENRE OF YOUR FILM**
- **CREATE A LINK BETWEEN YOUR NON-FUNCTIONAL ATTRIBUTE AND THE GENRE.**
- **CHOOSE YOUR MOVIE TITLE**
- **MAKE A PLOT WHICH REFLECTS YOUR QUALITY CHARACTERISTIC**
- **SKETCH THE POSTER**



# Some examples

| Example | Quality Attribute / Genre | Title   |
|---------|---------------------------|---|
| 1       | Flexibility · Horror      | The Flexorcist                                    |
| 2       | Performance · Drama       | The Eternal Loading Times of the Spotless Browser |
| 3       | Usability · Action        | Last accessible Hero                              |
| 4       | Safety · Action           | The Dukes of Risk and Hazard                      |
| 5       | Security · Comedy         | Austin Powers; The spy who hacked me              |
| 6       | Maintainability · Drama   | No Country for old code                           |
| 7       | Compatibility · Scifi     | 2025: A Space Incompatibility                     |
| 8       | Reliability · Thriller    | The Silence of the Logs                           |



# Roles & expectations

| Role                | Task  |
|---------------------|---|
| <b>Producer</b>     | Prepare the draft pitch for take 3.   |
| <b>Director</b>     | Coordinate the team process and ensure that all is completed within deadline.             |
| <b>Movie critic</b> | Challenge the work of other team members and give constructive feedback.                  |
| <b>Art director</b> | Start drawing some sketches/concept art for the film and photograph these                 |
| <b>Screenwriter</b> | Write down the important elements of your plot and the link to non-functional attributes. |



35  
Br eak

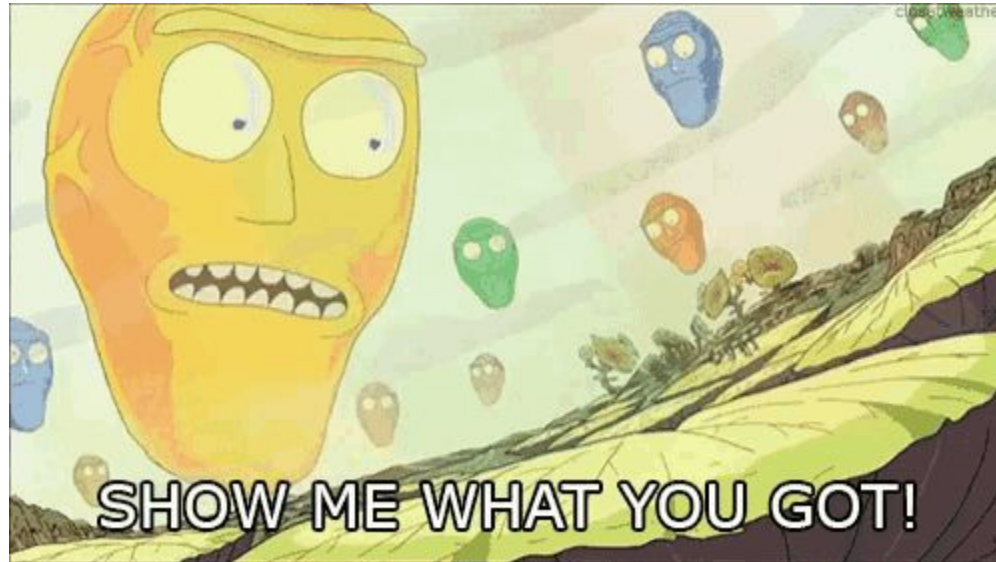


NTD



# Reporting back from take 3

Show us what you've got





## TAKE 4: Less talking more scripting

- **GENERATE THE SCRIPT USING AI**
- **BEGIN GENERATING YOUR** FILM POSTER
- **COMMIT ALL TO YOUR FORK OF THE TESTLYWOOD REPO**
- **START WORKING ON THE PITCH**

# A little prompting goes a long way

- Specific, context, clear
- Assign a persona to the AI
- Challenge the prompts
- Iterate
- Use positive instructions
- Store your successful prompts



# Roles & expectations

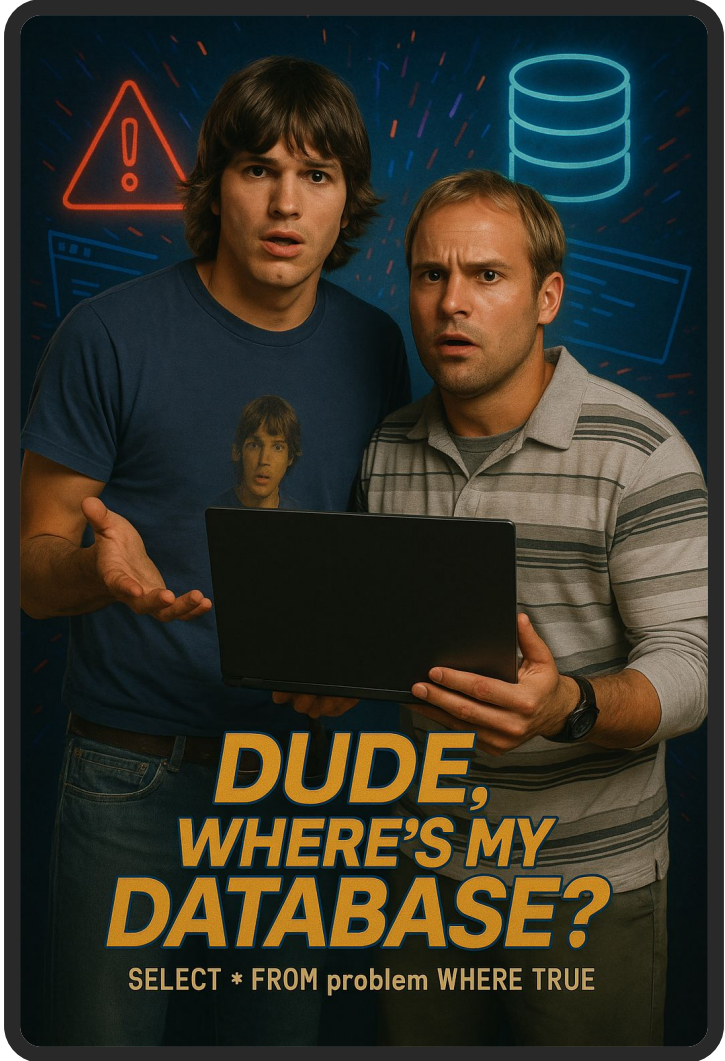
| Role         | Task   |
|--------------|--|
| Producer     | Start preparing the pitch for the final take   |
| Director     | Upload all deliverables and ensure timekeeping.  |
| Movie critic | Give feedback on the script.   |
| Art director | Transform your sketches and ideas into a film poster using AI.                                 |
| Screenwriter | Ensure that the script is aligned with the quality characteristic of your team, max 300 words. |



## Some inspiring examples







**DUDE,  
WHERE'S MY  
DATABASE?**

SELECT \* FROM problem WHERE TRUE





When the logs go silent . . . someone has  
silenced them.



# THE SILENCE OF THE LOGS

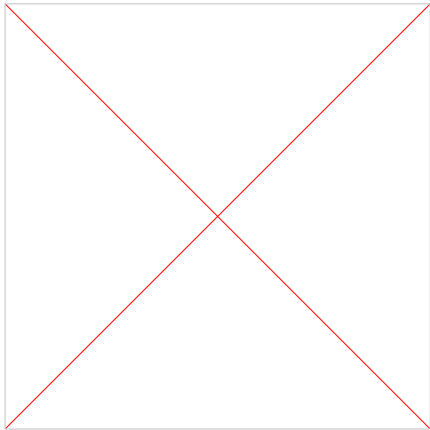
The system is quiet ... too quiet.

ISO 25010



## Take 4: Github

- Make it fork with the name of your production company on Github.



<https://github.com/WillemKeesman/Testlywood/>



# TAKE 4: Less talking more scripting

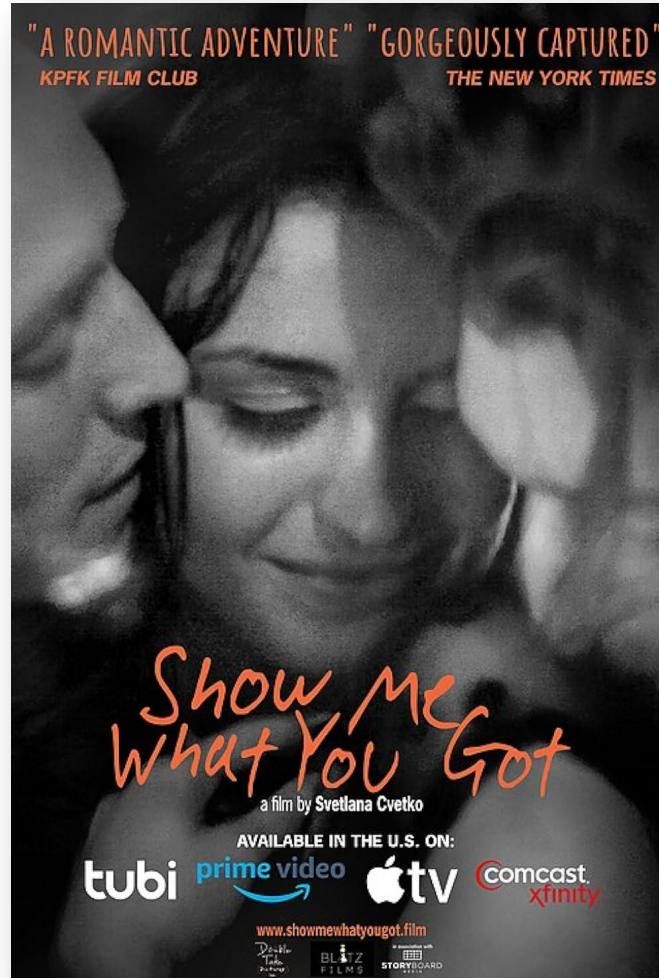
10 min 



ND

# Reporting back from take 4

Show us what you've got



# TAKE 5: It's the final boss battle



- FINALIZE THE FILM POSTER
- FINALIZE THE SCRIPT
- LINK LESSONS LEARNED TO THE SCRIPT
- UPLOAD EVERYTHING TO THE TESTLYWOOD REPOSITORY.
- PREPARE AN AWESOME PITCH (30 SEC)

# Roles & expectations

| Role         | Task   |
|--------------|--|
| Producer     | Prepare the pitch for take 5 (max 30 sec) about your film.                               |
| Director     | Upload all deliverables and ensure timekeeping.  |
| Movie critic | Give feedback on the pitch   |
| Art director | Ensure that the film poster is finalized and ready to be printed for the award ceremony. |
| Screenwriter | Adjust the script based on the feedback received and finalize it, max 300 words.         |



# TAKE 5: It's the final boss battle

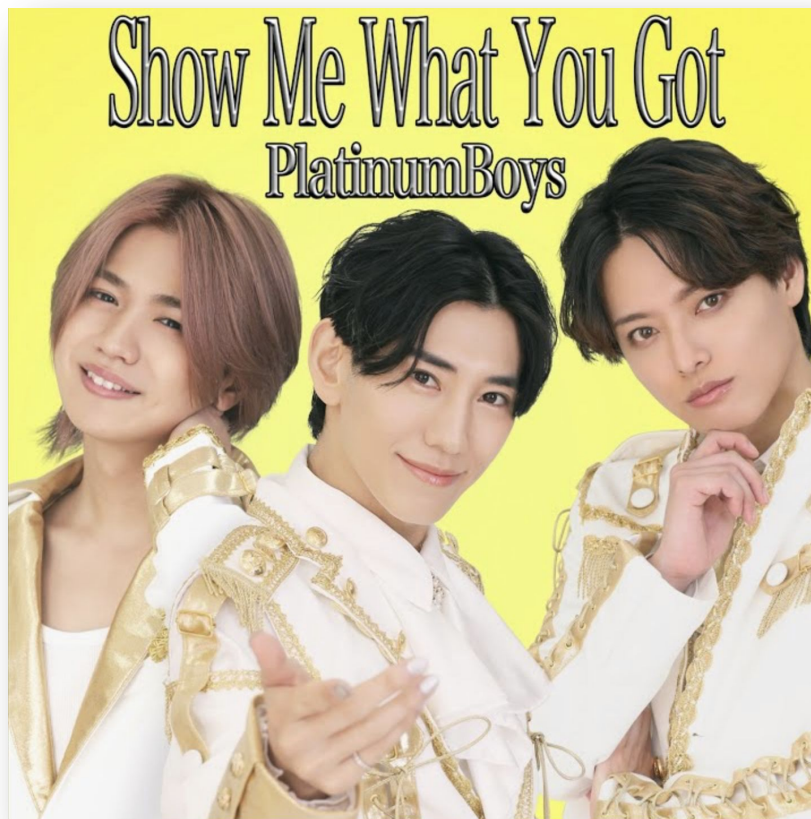
15 min 



ND

## Reporting back from take 5

Show us what you've got



ND

# The credits



- **WHAT DID WE LEARN**
- **FEEDBACK**

# What did we learn today?

- ISO25010:2023 quality characteristics and their importance
- Using effective prompting work with an LLM
- Collaboration between humans and AI
- Basics of Github
- Multidisciplinary team effort under time pressure



# Questions?

## Email:

- [Willem.keesman@soprasteria.com](mailto:Willem.keesman@soprasteria.com)
- [a.gorter@icloud.com](mailto:a.gorter@icloud.com)

## • Social:

- <https://www.linkedin.com/in/willem-k-b44a31273/>
- <https://www.linkedin.com/in/arnoud-gorter-630b858/>

