

Accion INNOVATION SUMMIT 2023

Summary

- Providing various metrics to measure Psychological Complexity in UX Design through <u>Automation</u>
- Pathology Reports to measure Quantitative Psychological complexity

Accion INNOVATION SUMMIT 2023



V.S.S.R.Dhanapathi Marepalli

Technical Architect, Nexial

Dhana comes with 16 years of experience in various technologies like Java, AWS, Nodejs, Python, Boomi, Nexial and others.

He is currently heading the teams which work on QA Automation, Integration platforms and Product development.





Quantitative Metrics for Psychological Complexity

Use cases

Demonstration with examples

Reports for each of the Metrics

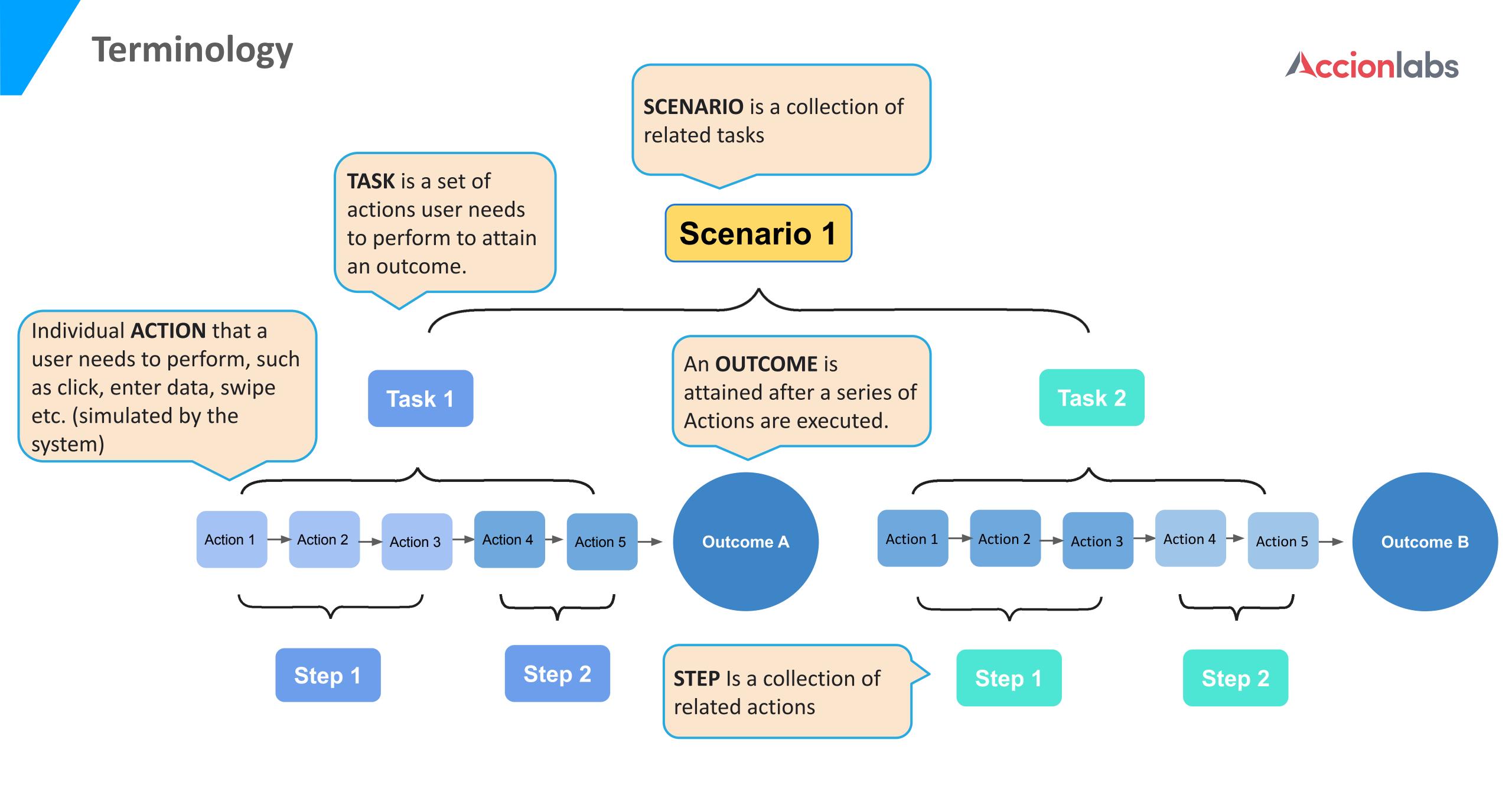
Underlying Technology

Q and A

Quantitative Metrics for Psychological Complexity



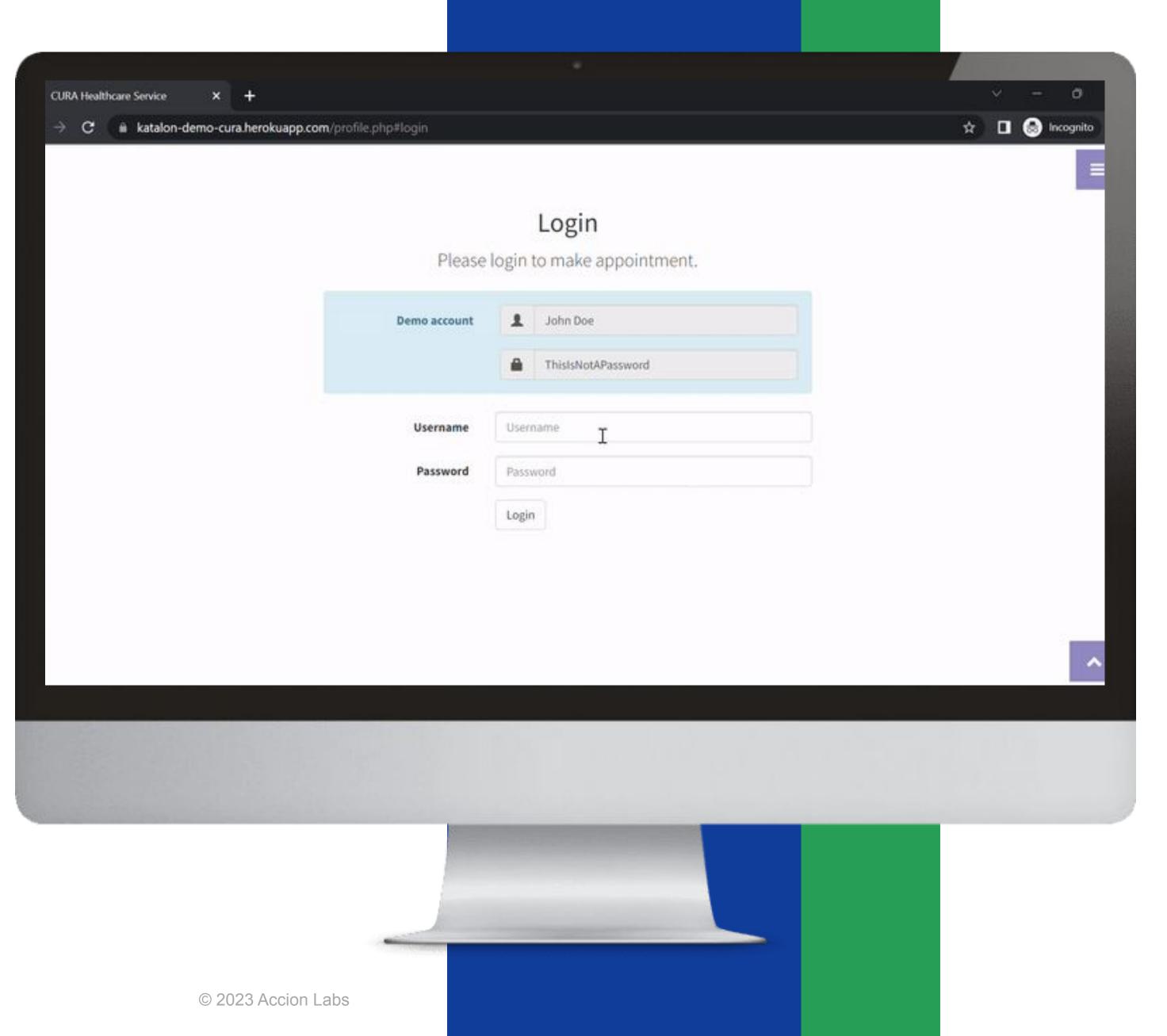
	Quantitative Metrics			
Pathology (Group of Metrics)	Consistency	Responsiveness	Accessibility	Effort
Definition	Tasks that achieve similar outcomes need to have similar actions.	Time that the user has to wait for system responses while performing a task.	Users should be able to perform all actions required to complete a task, irrespective of their limitations.	Number of actions and time taken by users to complete a task.
Metrics	TBD	System Delay Network Calls	Internationalization Compliance WCAG Compliance	User Actions Count User Actions Time



Medicare Appointment Use Case

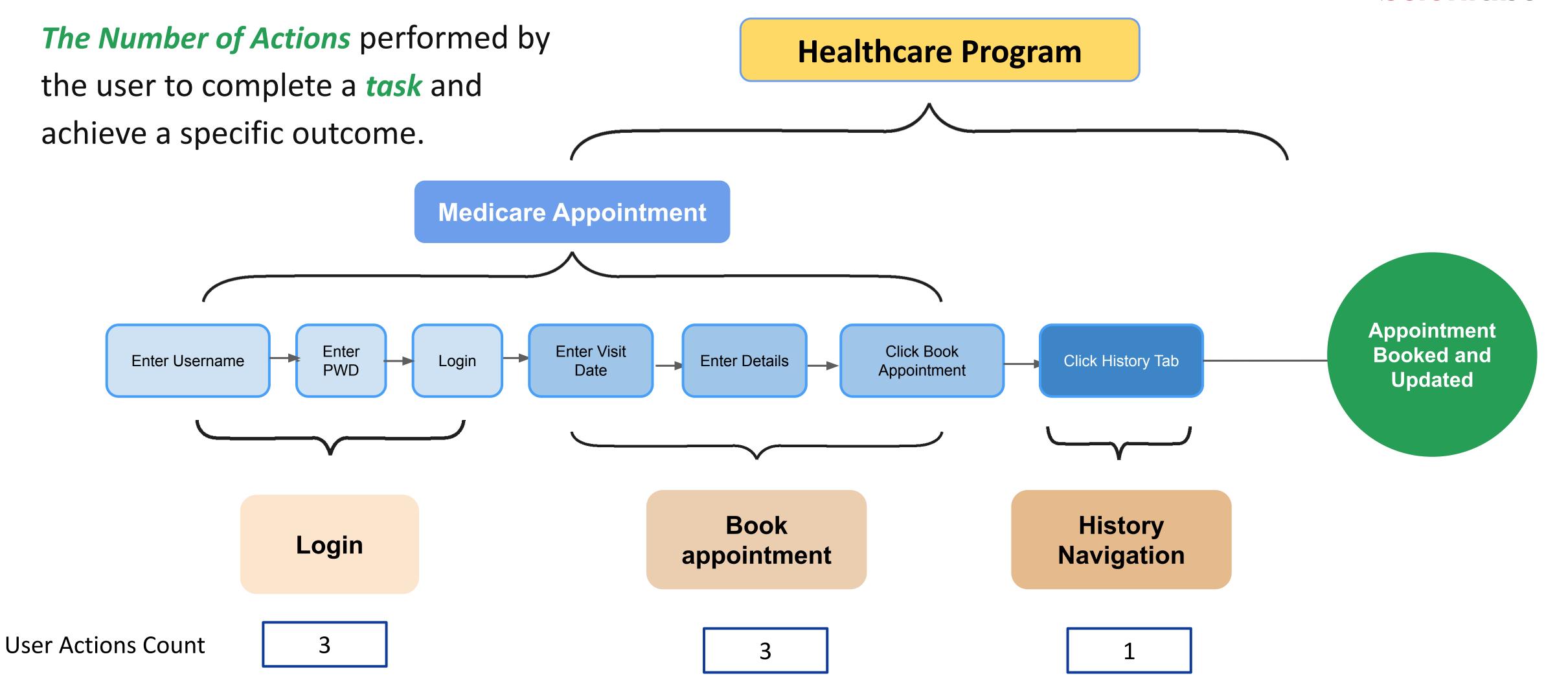
Accionlabs

An example to explain the Terminology



User Actions Count

Accionlabs

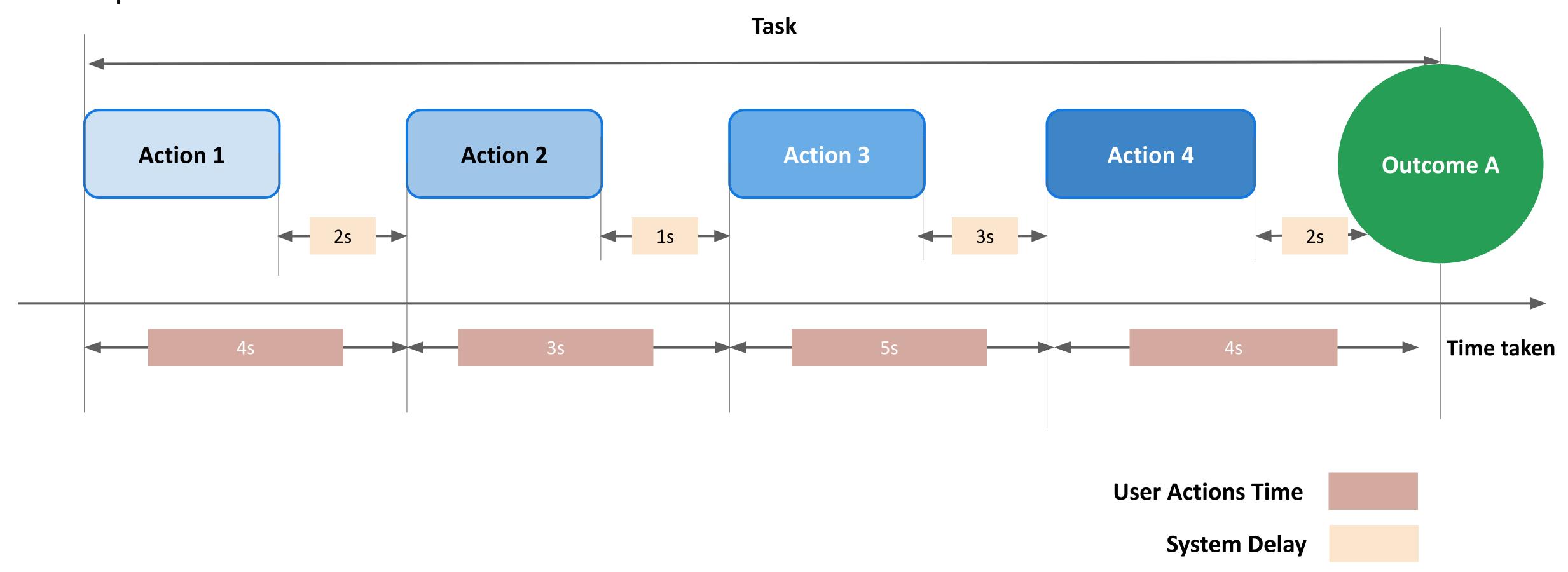


User Actions Time & System Delay



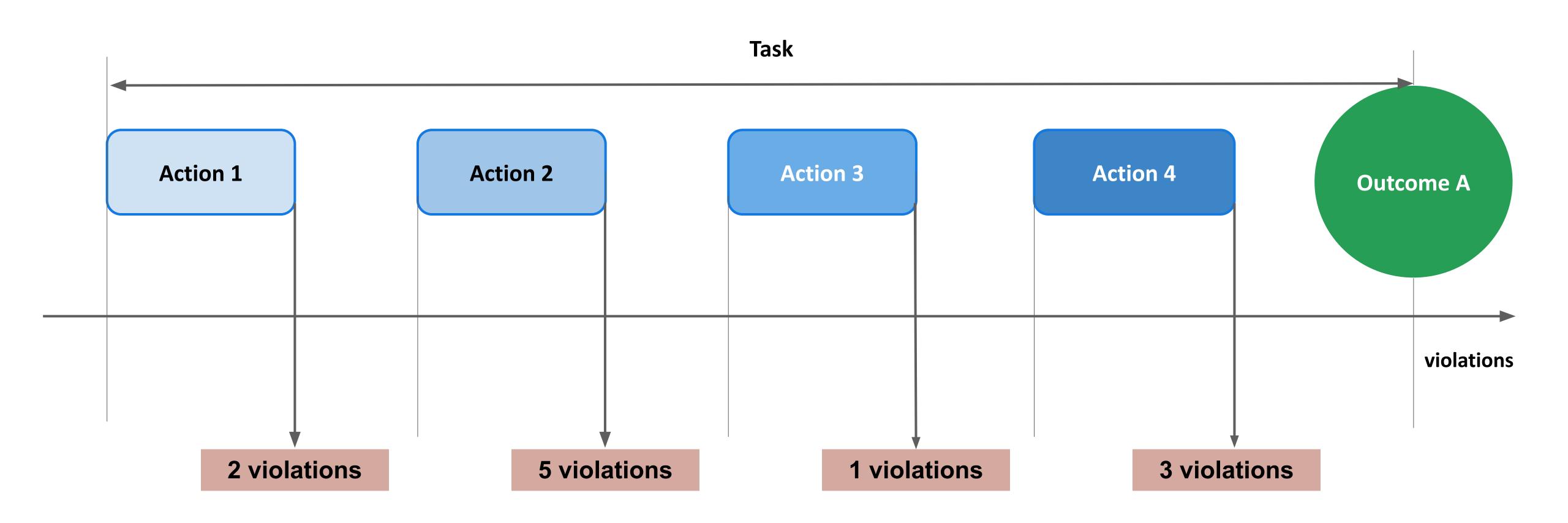
User Actions Time: Time taken to execute the action which includes the response time.

System Delay: Total amount of time that the user has to wait for responses from the system so as to complete the entire task



WCAG Compliance

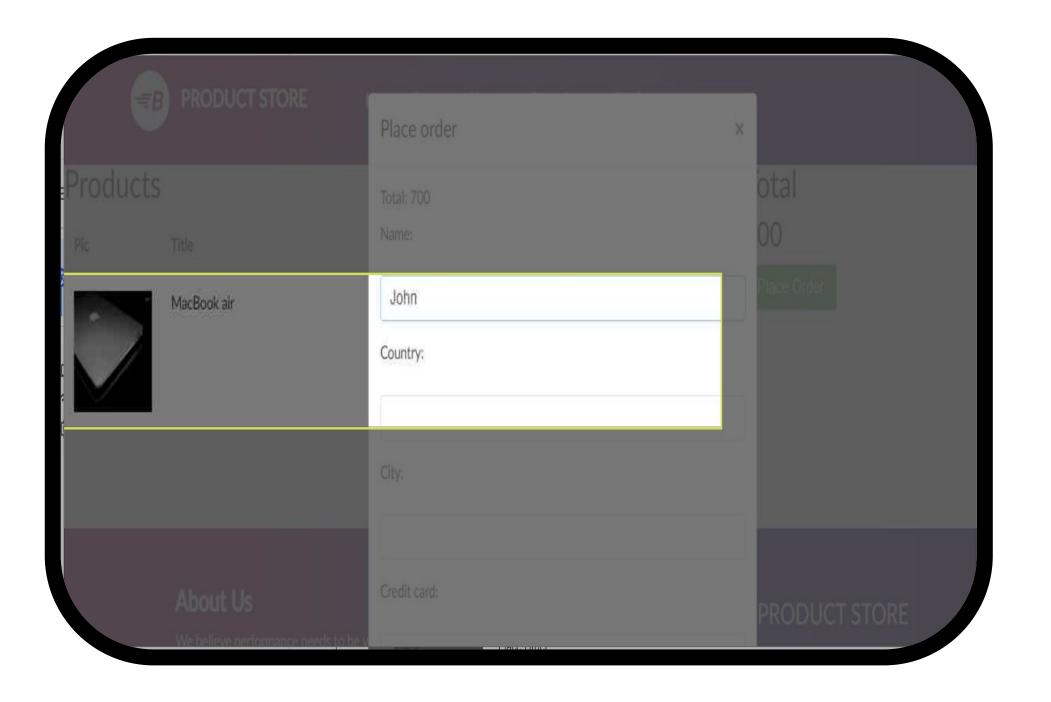
Definition: Count of Accessibility violations in the Web application as specified by the *Web Content Accessibility Guidelines*.

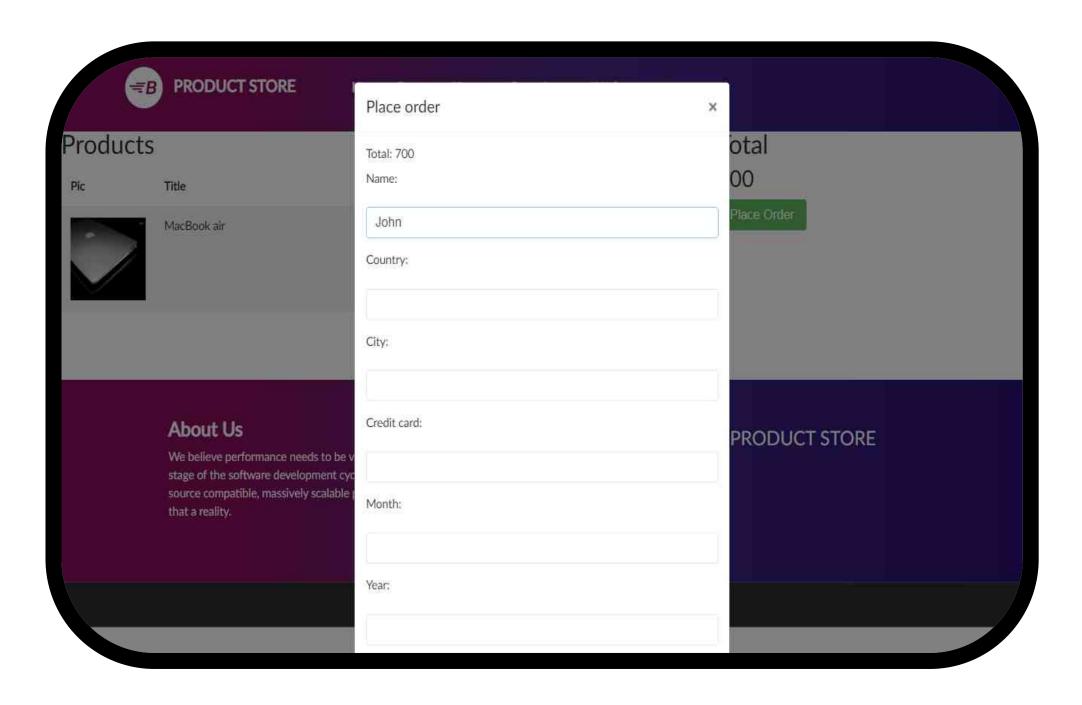


WCAG Continuation...

Accionlabs

Description of issue: Low-contrast text is difficult or impossible for many users to read



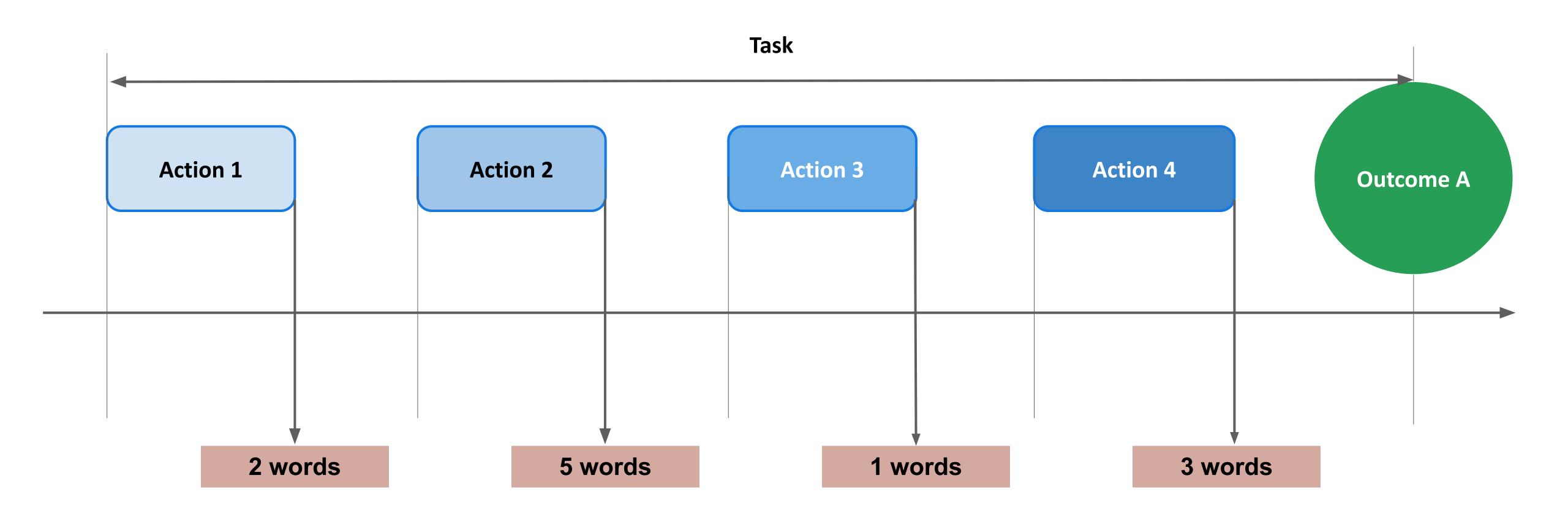


Element:

I18N Compliance



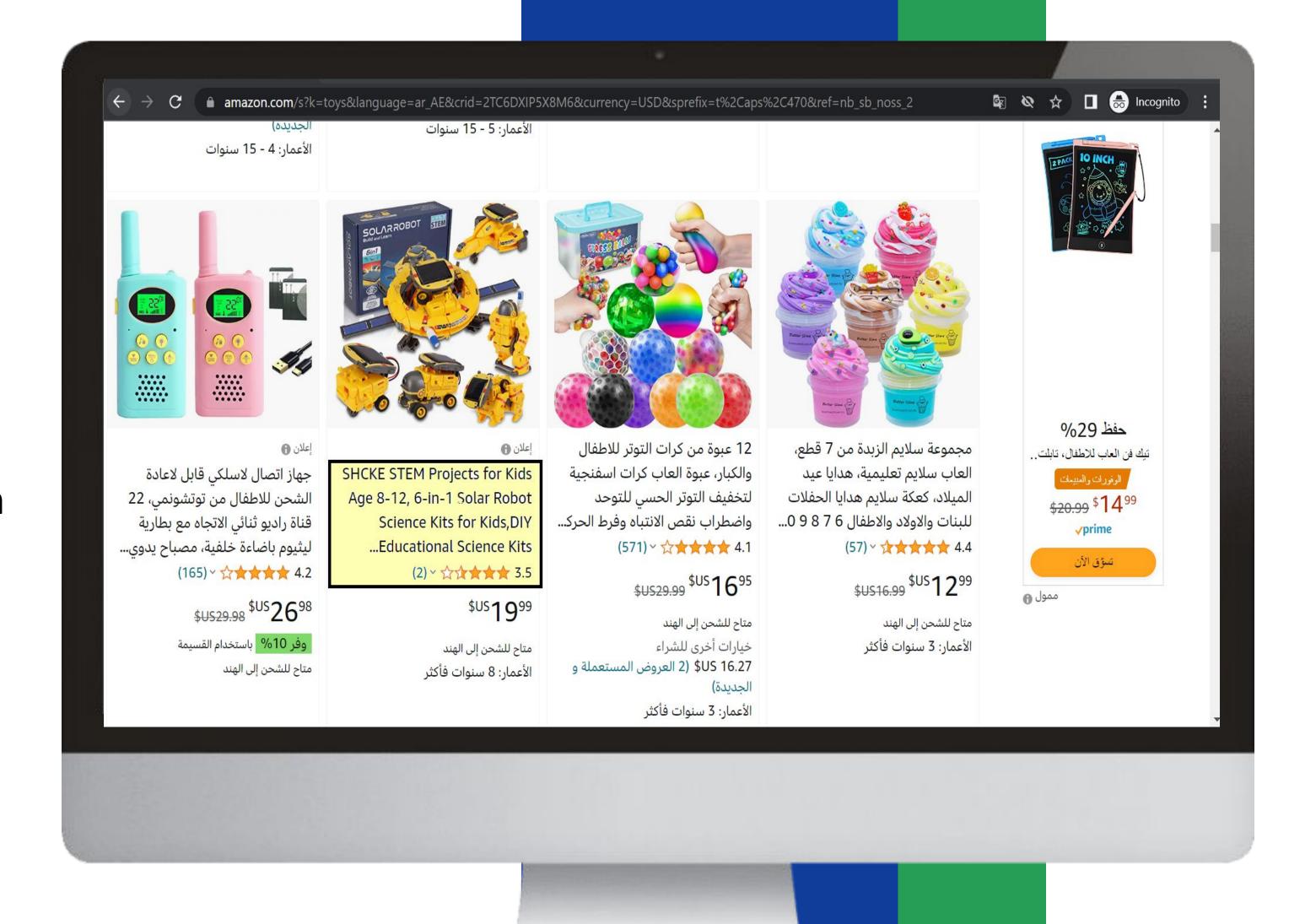
Definition: Count of mismatching words which are not part of the Target language selected by the user.



Internationalization (Continued...)

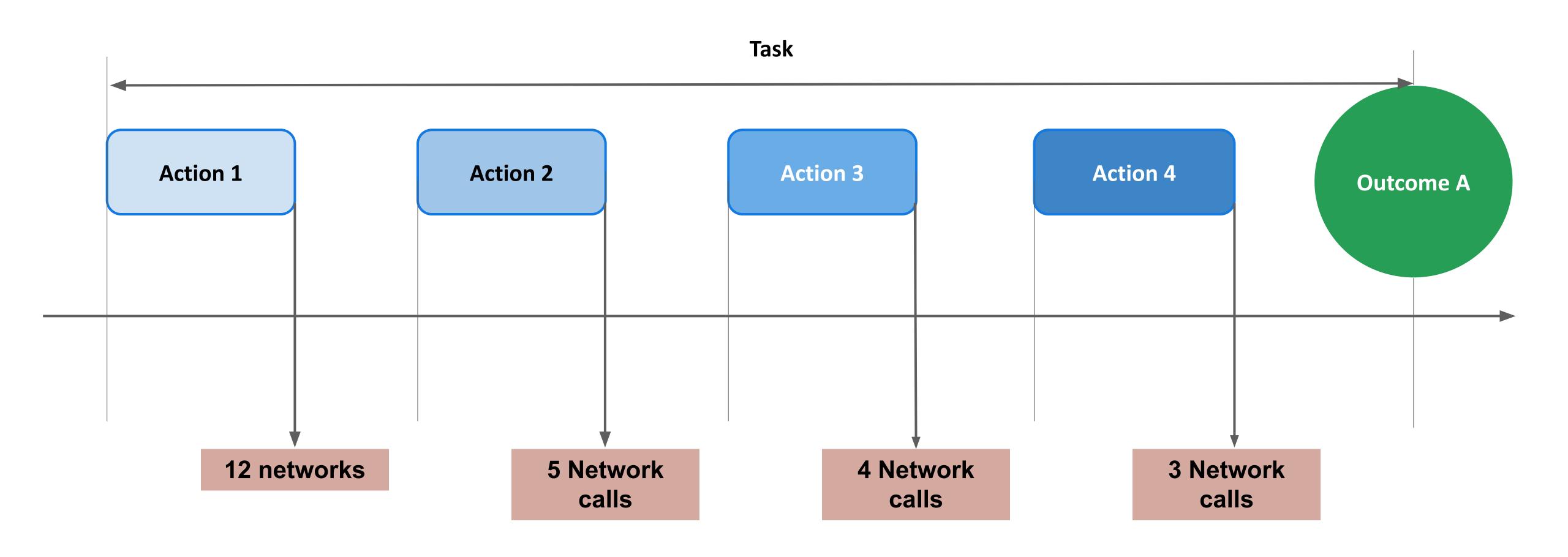
Accionlabs

Dynamic Content: Identify the mismatched words in the Dynamic content (data displayed) along with the static content.



Network Load

Definition: Count of Network calls required between actions so as to complete a task

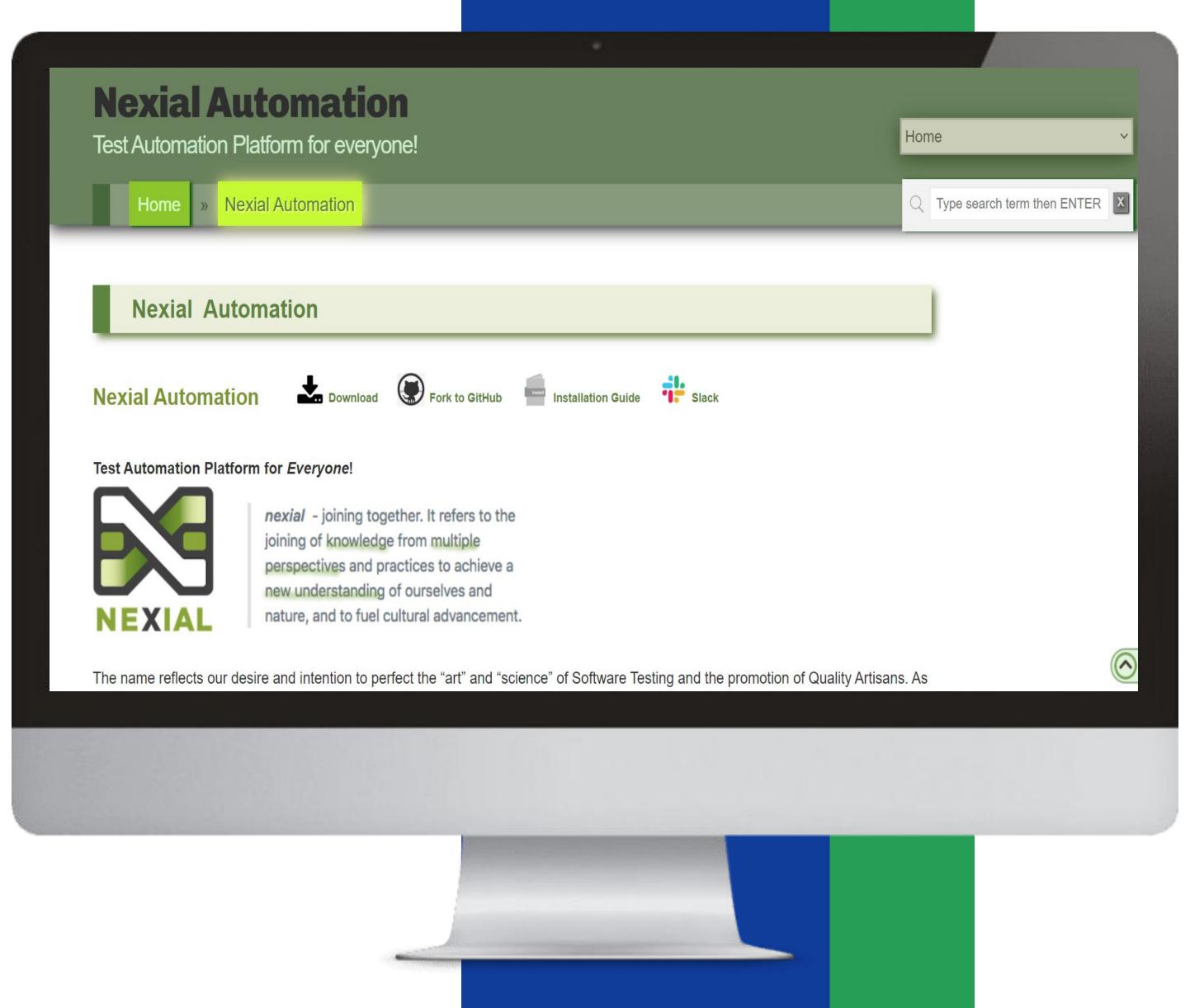


Nexial - The Underlying Technology



Nexial is a Low code, Keyword
Driven, Hybrid, QA Automation
platform that provides a simple
Spreadsheet interface to build
automated tests

- Supports various types of testing like Web(browser),
 Rest/SOAP/GraphQL, Database,
 Batch, Mobile etc.
- Integrates with various tools and frameworks.
- Extensible and flexible Test/Data
 Management



Accionlabs

Accion INNOVATION SUMMIT 2023

Demo!

