



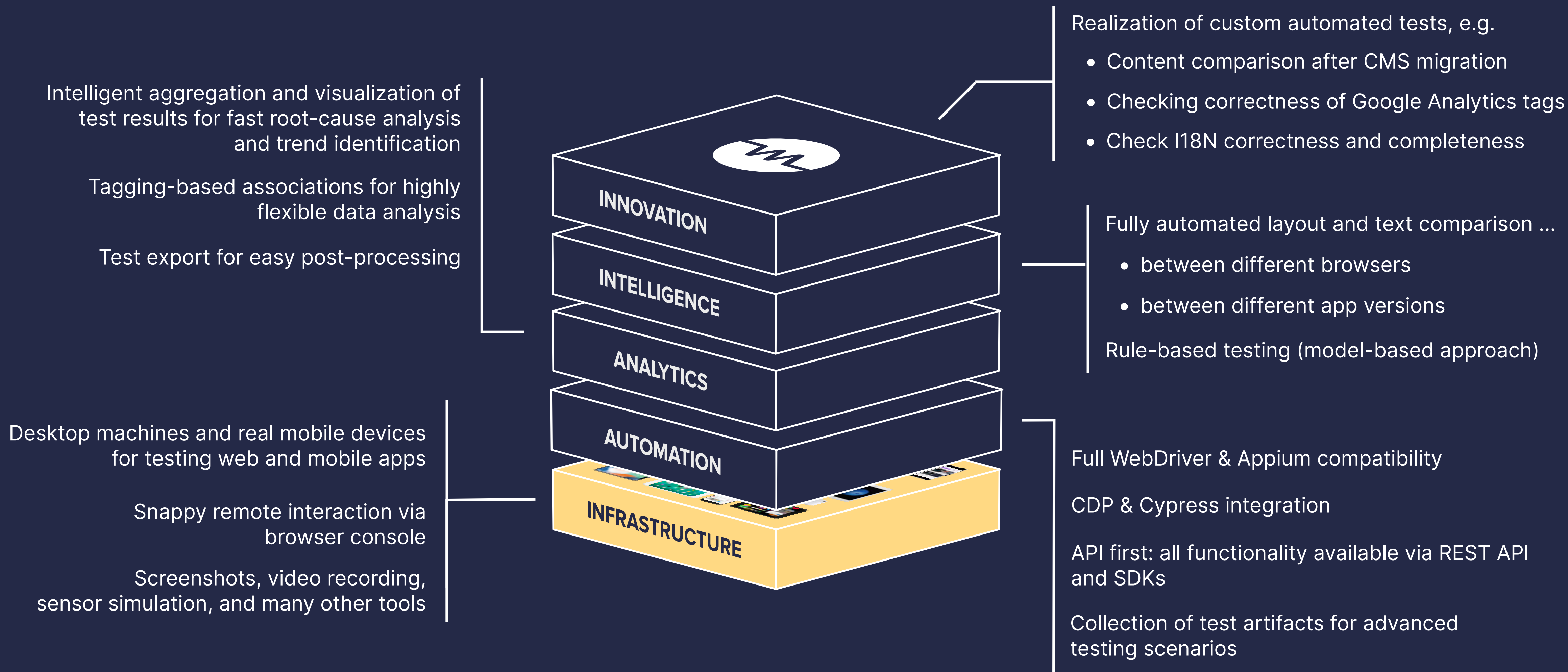
Product Overview

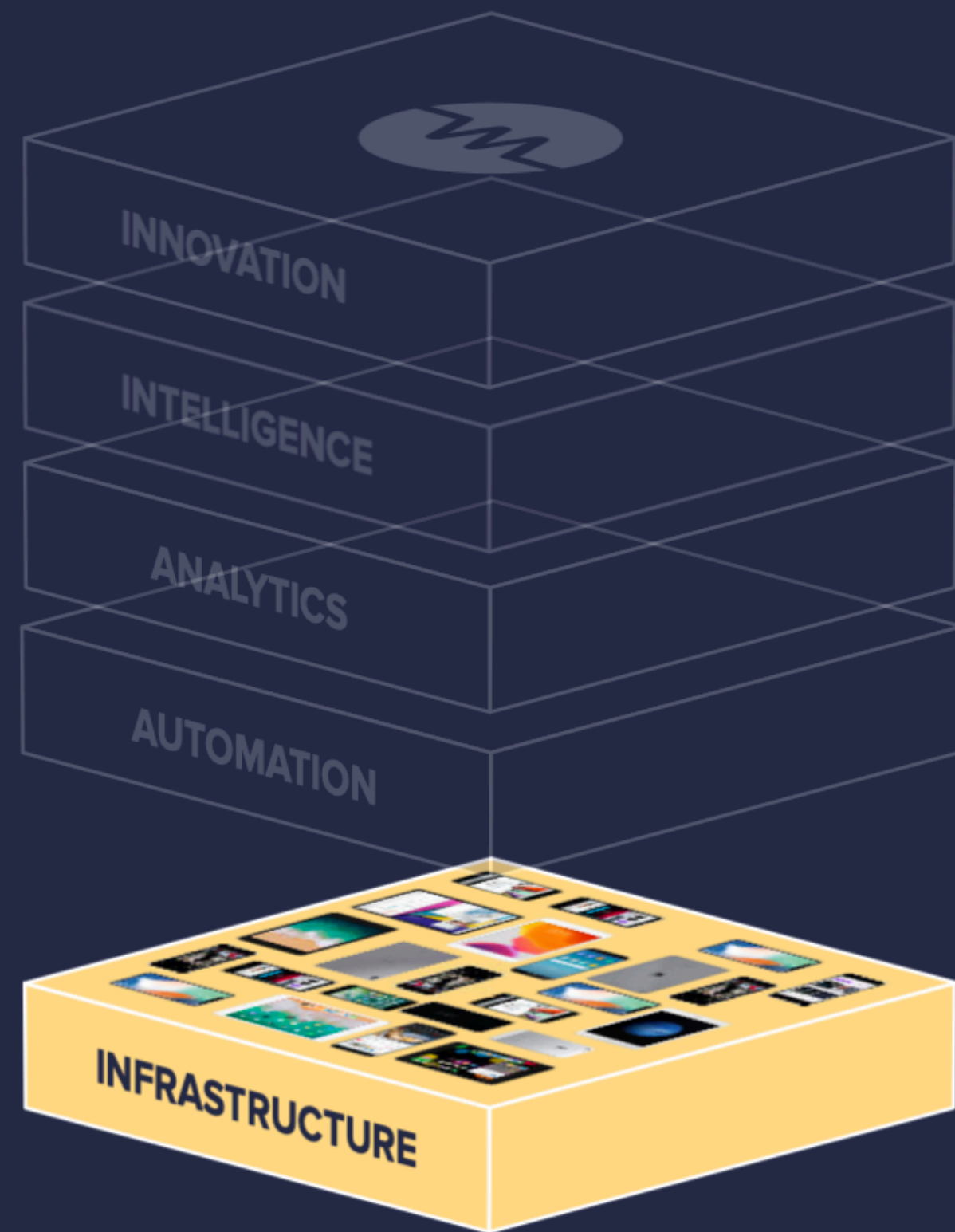
2022-02

by  testfabrik



Test Automation and Infrastructure





TESTING INFRASTRUCTURE

Desktop Infrastructure



- ▶ On-Demand virtual machines and hosted Macs
- ▶ Windows, MacOS, and Linux OSes
- ▶ Chrome, Firefox, Opera, Safari browsers
- ▶ Current and past releases (also Beta releases)
- ▶ Customized templates (e.g. containing customer-specific certificates, applications, or sizing)
- ▶ Fully integrated, e.g.
 - Automation APIs (WebDriver / Selenium, CDP)
 - Network (VPN integration, bandwidth simulation, DNS)

Device Overview

Manage all desktop and mobile devices for your project in a central view.

The screenshot displays a web interface for managing devices. At the top, there is a navigation bar with a logo, a dropdown menu for 'DEMO PROJECT', and links for 'ADMINISTRATION' and 'DOCS'. On the right side of the navigation bar, there are notification and user profile icons. Below the navigation bar, the main content area is titled 'Devices'. It includes a search filter, a 'Hide used slots' checkbox, and buttons for 'Apps' and 'Reservations'. The main content is divided into two sections: 'Devices in Project' and 'Device Slots in Project'. The 'Devices in Project' section shows two devices: 'iPhone XS' (running, cannot be used by jobs) and 'MACOS MONTEREY' (running, is available to jobs). The 'Device Slots in Project' section shows six slots: 'Slot 3', 'Slot 5', 'Dev Mobiles', 'Public Demo', 'Public Slot 1', and 'Public Slot 2'. Each slot has a 'Deploy device' button and a 'Details' button. The status of each slot is indicated by a device icon and a label.

DEMO PROJECT ADMINISTRATION DOCS

Devices

Filter Hide used slots Apps Reservations

Devices in Project

2 online / 0 queued

	iPhone XS created Today at 10:58 AM	Public Slot 2 no daily redeployment	running cannot be used by jobs	Access	Details	Delete	⋮
	MACOS MONTEREY created Today at 10:58 AM	Slot 5 no daily redeployment	running is available to jobs	Access	Details	Delete	⋮

Device Slots in Project

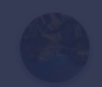

4 of 6 slots available

	Slot 3			Deploy device	Details	⋮
	Slot 5		MACOS MONTE... in this project		Details	⋮
	Dev Mobiles			Deploy device	Details	⋮
	Public Demo			Deploy device	Details	⋮
	Public Slot 1			Deploy device	Details	⋮
	Public Slot 2		iPhone XS in this project		Details	⋮

"Device Slots" Represent Infrastructure Resources

Devices in Project

2 online / 0 queued

	MACOS BIGSUR created 02/09/2021	Access	Details	Delete	Menu
	WINDOWS 10 created 02/21/2021	Access	Details	Delete	Menu

Seamless access to mobile and desktop devices

Device Slots in Project

3 of 8 slots available

	iPad mini	Deploy device	Details	Menu
	Pixel 3a	 Pixel 3a Webinar Automat...	Details	Menu
	Public	Deploy device	Details	Menu
	Public-Lab	Deploy device	Details	Menu
	Slot 1	 WINDOWS 10 Base Project	Details	Menu
	Slot 2	 WINDOWS 7 Webinar Automat...	Details	Menu
	Slot 4	 WINDOWS 10 in this project	Details	Menu
	Slot 5	 MACOS BIGSUR in this project	Details	Menu

Slots may be shared between different projects of a customer

Device Slot Administration

- ▶ All infrastructure of an organization centrally managed
- ▶ Projects with exclusive or shared access to devices
- ▶ OS updates can be configured per device

The screenshot displays the 'ADMINISTRATION' section of a management console, specifically the 'Slots' tab under 'Infrastructure'. It shows a table of seven device slots, each with a list of associated projects and deployment status. Slot 5 is currently assigned 'MACOS MONTEREY' and Slot 7 is assigned 'WINDOWS 10'. A search filter is visible in the top right corner.

Slot	Projects	Status	OS
Slot 1	Valentin Test, Sandra Test, Base Project, Demo	No device deployed	
Slot 2	Valentin Test, Base Project, Demo	No device deployed	
Slot 3	Base Project, Demo Project	No device deployed	
Slot 4	Base Project, Demo, Test Project	No device deployed	
Slot 5	Empty, Base Project, Demo Project, Test Project	MACOS MONTEREY created Today at 10:58 AM by OKD Admin currently not used	MACOS MONTEREY
Slot 6	Base Project, Tims Flutterspaß, Randy	No device deployed	
Slot 7	Base Project	WINDOWS 10 created Last Wednesday at 10:31 AM by OKD Admin	WINDOWS 10

Devices

Filter

Hide blocked slots

No Limit

Reservations

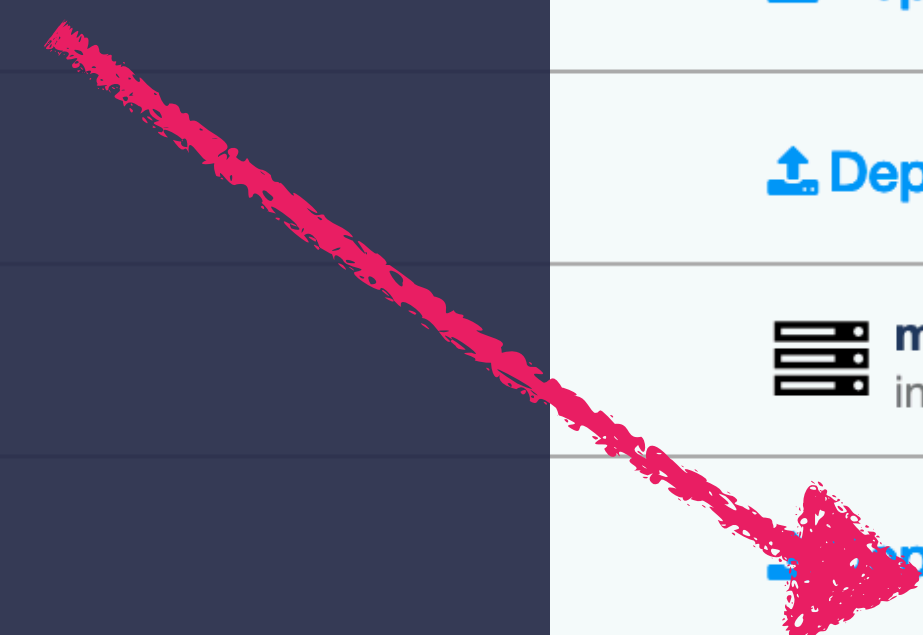
Devices in Project

Beta Device created Today at 9:57 AM	Slot 4 no daily redeployment	running cannot be used by jobs
mac-mojave-64-13 created Today at 9:55 AM	Slot 2 no daily redeployment	running is available to jobs

Device Slots in Project

iPhone XS iOS 14 OpenSTF	Slot 1 VCloudTestCenter	Slot 2 VCloudTestCenter	Slot 3 VCloudTestCenter	Slot 4 VCloudTestCenter	Slot 5 VCloudTestCenter	Slot 6 VCloudTestCenter
------------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------

For all devices (desktop + mobile)
network conditions may be adapted.



Access

Access

Deploy

Deploy

mac-
in this

Deploy

Beta
in this

win-7
Another

Deploy device

Details

GPRS (56kb/s)

EDGE (220kb/s)

3G (376kb/s)

HSPA (7.2mb/s)

HSPA+ (24.7mb/s)

LTE (100mb/s)

DSL 2000 (2mb/s)

DSL 4000 (4mb/s)

DSL 8000 (8mb/s)

DSL 16000 (16mb/s)

DSL 32000 (32mb/s)

2 online / 0 queued

of 7 slots available

Enable redeployment

Reserve this device slot

Limit bandwidth

Device Deployment

- ▶ Standard OS templates for Windows, Mac
- ▶ Language specific templates
- ▶ Many browser versions
- ▶ Custom templates may be provided
- ▶ Devices ready in an instant

Choose a device to deploy into slot *Slot 5*:



WINDOWS 11

Locale: en_US 90 - 97 90 - 97 90 - 96

Locale: de_DE 90 - 97 90 - 97 90 - 96 77 - 83

Locale: en_US 80 - 81, 83 - 96 79 - 81, 83 - 96 71 - 95

Locale: de_DE 80 - 81, 83 - 96 79 - 81, 83 - 96 71 - 95 67 - 82

DEPLOY



WINDOWS 10

59 - 81, 83 - 97 18, 79 - 81, 83 - 97 46 - 47, 52, 55 - 96 11 50 - 58, 60, 62



WINDOWS 8.1

59 - 81, 83 - 97 46 - 47, 52, 55 - 96 11 50 - 58, 60, 62 - 83



WINDOWS 7

59 - 81, 83 - 97 46 - 47, 52, 55 - 96 10 - 11 50 - 58, 60, 62 - 83



MACOS MONTEREY

80 - 81, 83 - 97 71 - 96 67 - 83 15



MACOS BIGSUR

59 - 81, 83 - 97 46 - 47, 52, 55 - 96 45 - 58, 60, 62 - 83 14 - 15



MACOS CATALINA

59 - 81, 83 - 97 46 - 47, 52, 55 - 96 45 - 58, 60, 62 - 83 13 - 15

Device Console

Control OSes and devices directly from your browser.

The screenshot displays a browser window with a Windows 10 virtual desktop environment. The browser's address bar shows the URL <https://app.webmate.io/console/>. The Windows taskbar at the top includes icons for 'Keyboard', 'Characters', 'Clipboard', 'WINDOWS 10', 'Test', 'Tools', 'Ctrl-Alt-Del', and 'Fullscreen'. The browser window shows a blog post from 'TESTFABRIK' with the title 'Manuelles Testen mit webmate' and a video player. The video player shows a timestamp of 05:07. The blog post content includes the text: 'Eine agile Vorgehensweise in der Softwareentwicklung benötigt einen hohen Grad an Testautomatisierung, um die Qualität der Software kontinuierlich zu messen und sicherzustellen. Neben all der Testautomatisierung darf jedoch auch eine Prise manuelles Testen nicht fehlen. Sei es aufgrund von hochkomplexen und schwierig zu automatisierenden Testscenarien oder zur Erteilung der Abnahme durch die Fachabteilung. Manuelle Tests ergänzen die Automation in vielerlei Hinsicht und werden auch zukünftig nicht gänzlich aus dem Testertag verschwinden.'

The Windows file explorer window on the right shows the 'Browsers' folder with the following files:

Name	Date modified	Type
Chrome	1/18/2022 3:44 PM	File fo
Edge	1/18/2022 3:42 PM	File fo
Firefox	1/18/2022 3:44 PM	File fo
Internet Explorer 11 32-bit	1/18/2022 3:44 PM	Shortc
Internet Explorer 11 64-bit	1/18/2022 3:44 PM	Shortc
Microsoft Edge (18)	1/18/2022 3:42 PM	Shortc

Mobile Infrastructure

- ▶ Physical mobile device farm
- ▶ Public and dedicated clouds
- ▶ Simulations (GPS, Camera, Biometrics, Network)
- ▶ Fully integrated, e.g.
 - Automation APIs (WebDriver / Selenium + Appium, CDP)
 - Network (VPN integration, bandwidth simulation, DNS)
- ▶ App and web debugging with Xcode (iOS) and ADB / Android Studio

Mobile Device Deployment View

W





















BASE PROJECT

ADMINISTRATION

DOCS

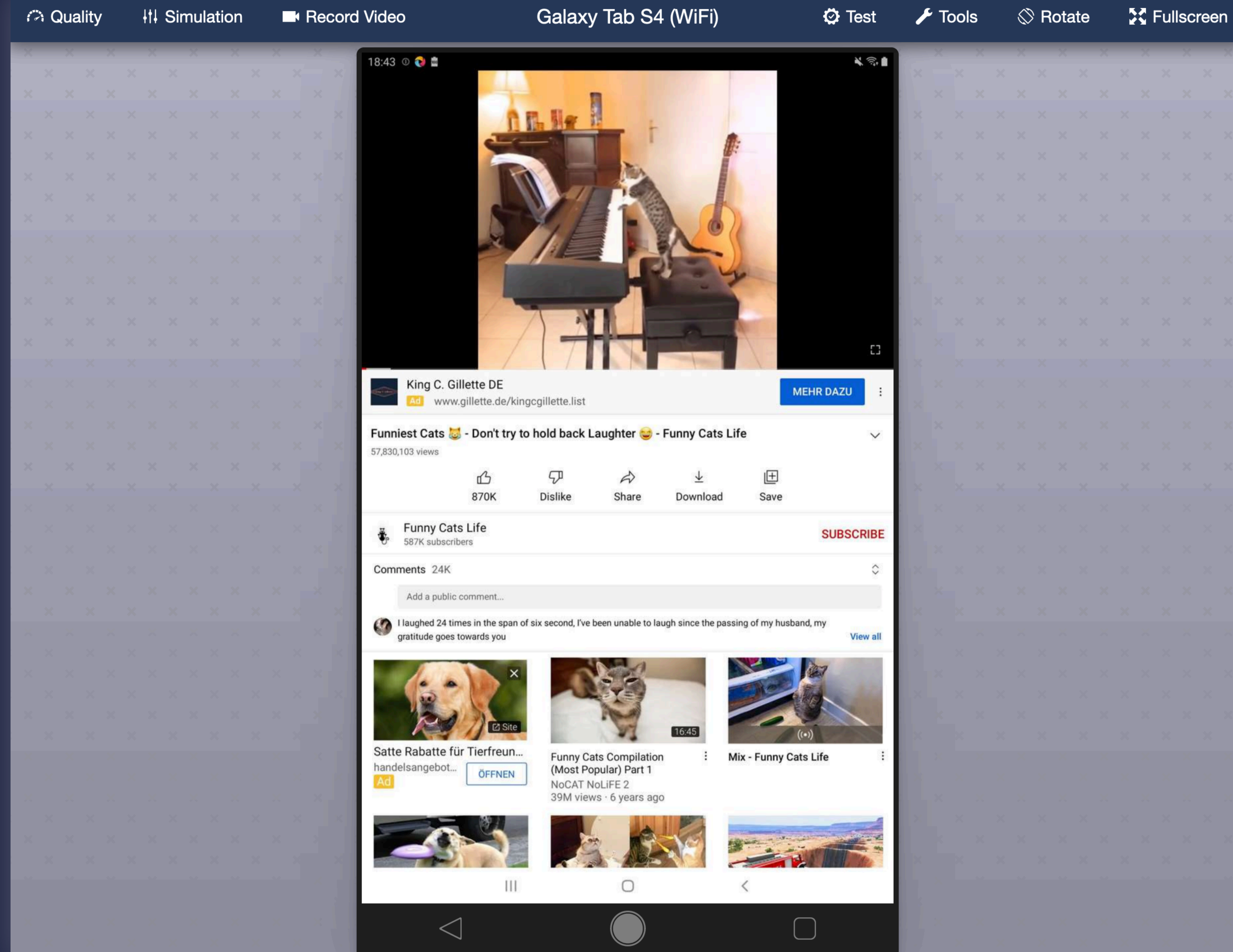
Filter

Choose a device to deploy into slot *Public Slot 1*:

 <p>Apple iPhone XR 🍏 14.4</p> <p>1.21.0 14</p>	 <p>Apple iPhone XR 🍏 14.0.1</p> <p>1.21.0 14</p>	 <p>Apple iPhone X GSM 🍏 14.6</p> <p>1.21.0 14</p>	 <p>Apple iPhone X GSM 🍏 14.0.1</p> <p>1.21.0 14</p>
 <p>Apple iPhone SE 2nd... 🍏 15.0</p> <p>1.21.0 15</p>	 <p>Apple iPhone SE 2nd... 🍏 14.7.1</p> <p>1.21.0 14</p>	 <p>Apple iPhone 8 Plus 🍏 14.0.1</p> <p>1.21.0 14</p>	 <p>Apple iPhone 7 🍏 13.3.1</p> <p>1.21.0 13</p>
 <p>Apple iPhone 13 Mini 🍏 15.1.1</p> <p>1.21.0 15</p>	 <p>Apple iPhone 13 🍏 15.2</p> <p>1.21.0 15</p>	 <p>Apple iPhone 13 🍏 15.1.1</p> <p>1.21.0 15</p>	 <p>Apple iPhone 12 Pro ... 🍏 14.7.1</p> <p>1.21.0 14</p>
 <p>Apple iPhone 12 Pro 🍏 15.2.1</p> <p>1.21.0 15</p>	 <p>Apple iPhone 12 Mini 🍏 15.2.1</p> <p>1.21.0 15</p>	 <p>Apple iPhone 12 Mini 🍏 14.8</p> <p>1.21.0 14</p>	 <p>Apple iPhone 12 Mini 🍏 14.7.1</p> <p>1.21.0 14</p>
 <p>Apple iPhone 12 Mini 🍏 14.2.1</p>	 <p>Apple iPhone 12 🍏 14.5.1</p>	 <p>Apple iPhone 12 🍏 14.2.1</p>	 <p>Apple iPhone 11 🍏 15.2.1</p>

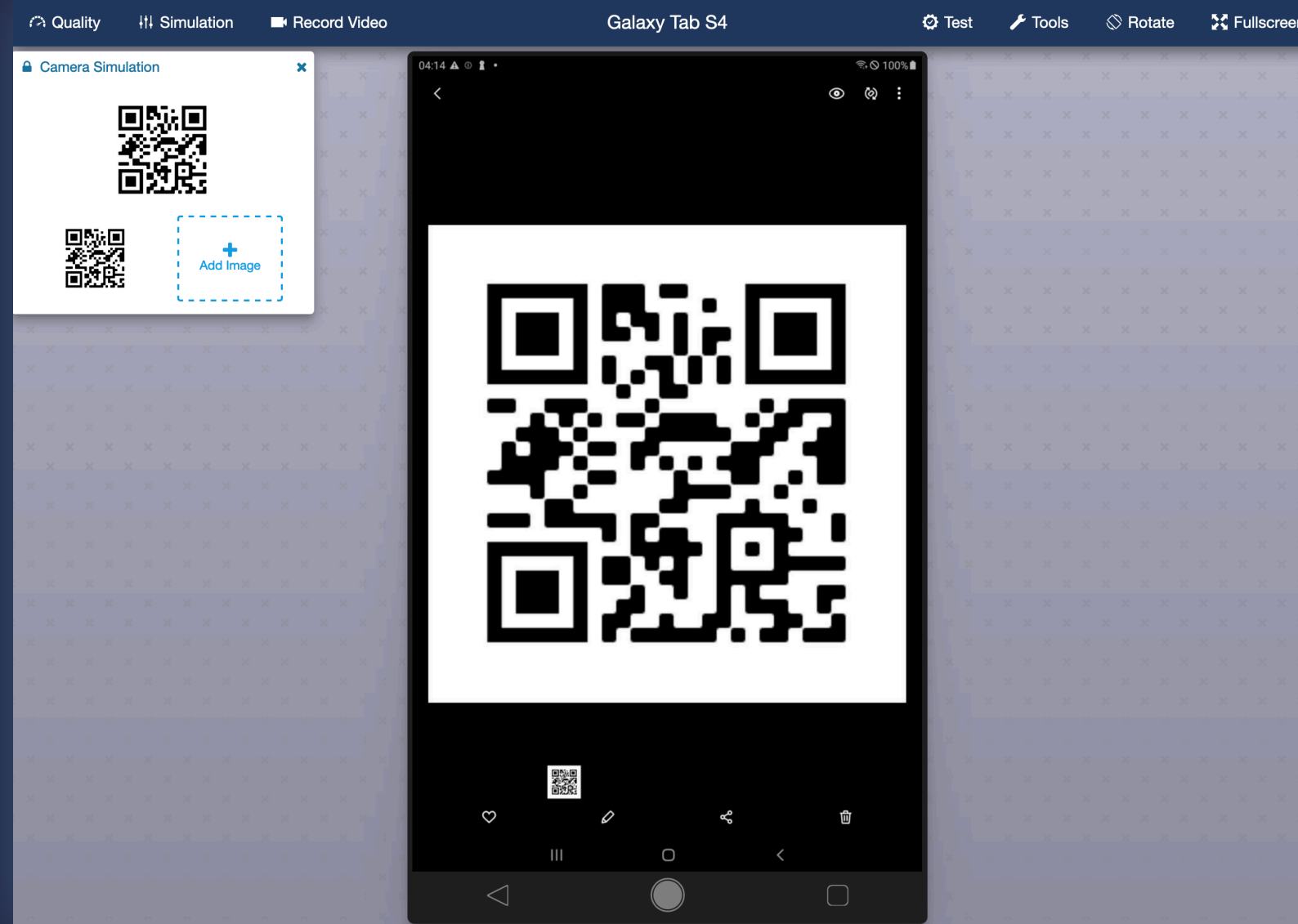
Mobile Device Console

- ▶ Full remote control of devices
- ▶ High-performance screen transfer
- ▶ Gesture simulation
- ▶ Test management integration
- ▶ Video recording of manual and automated test sessions

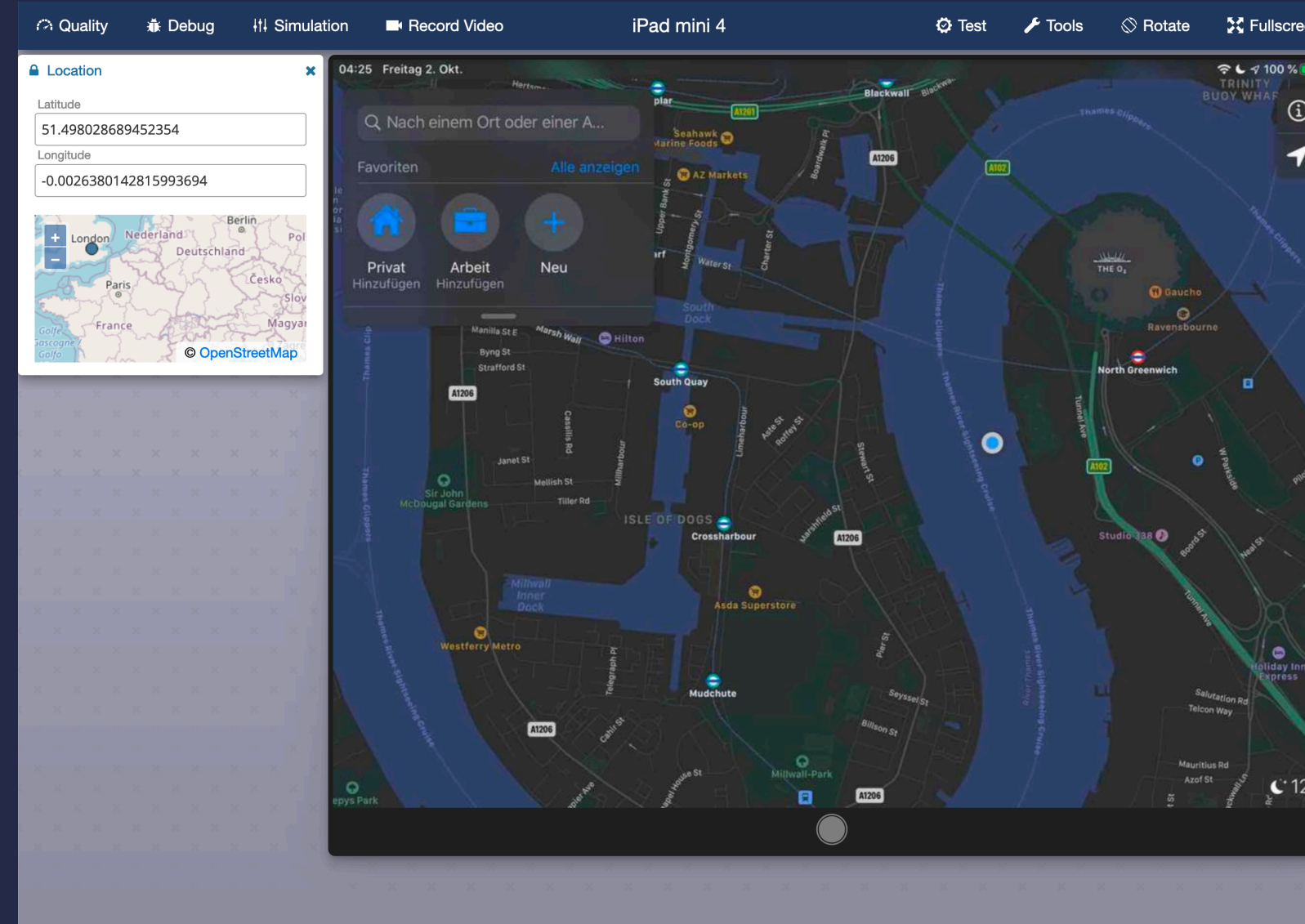


Mobile Hardware Simulation

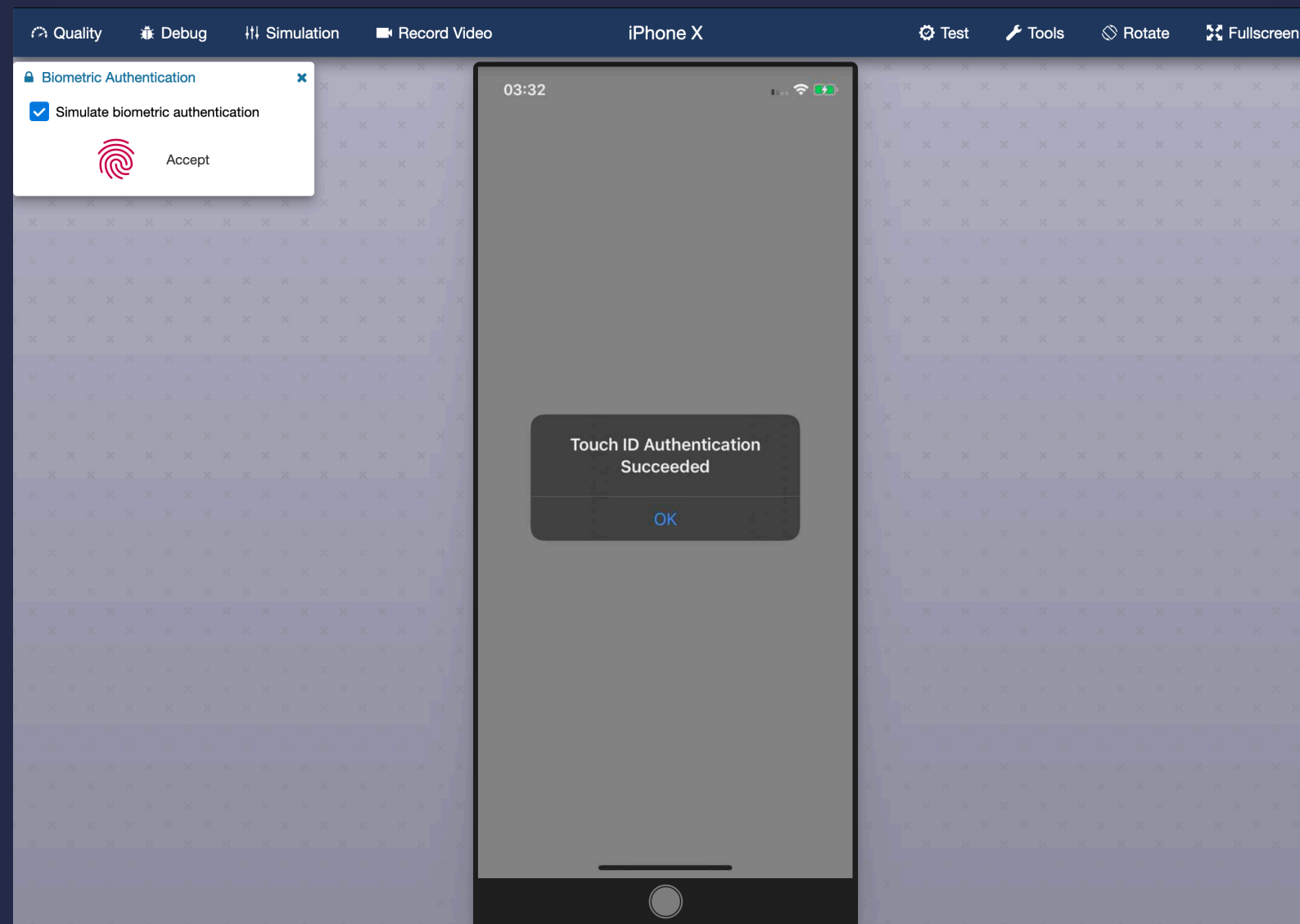
Camera



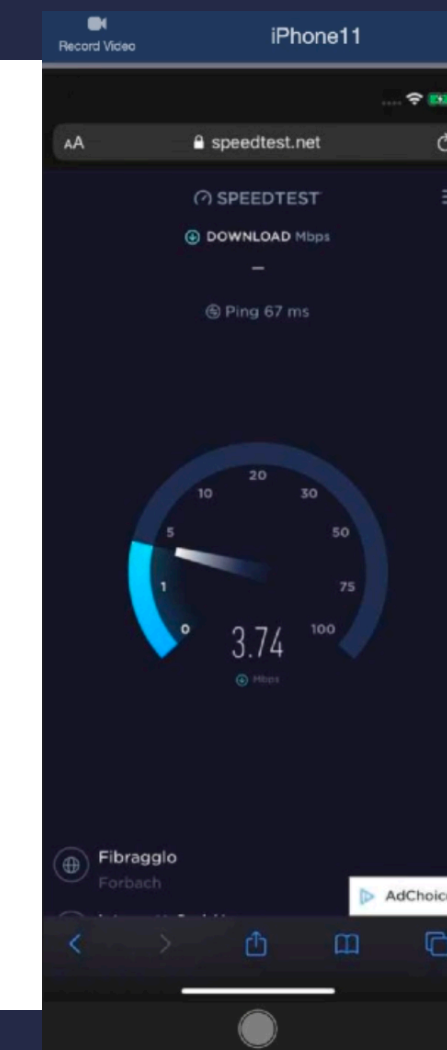
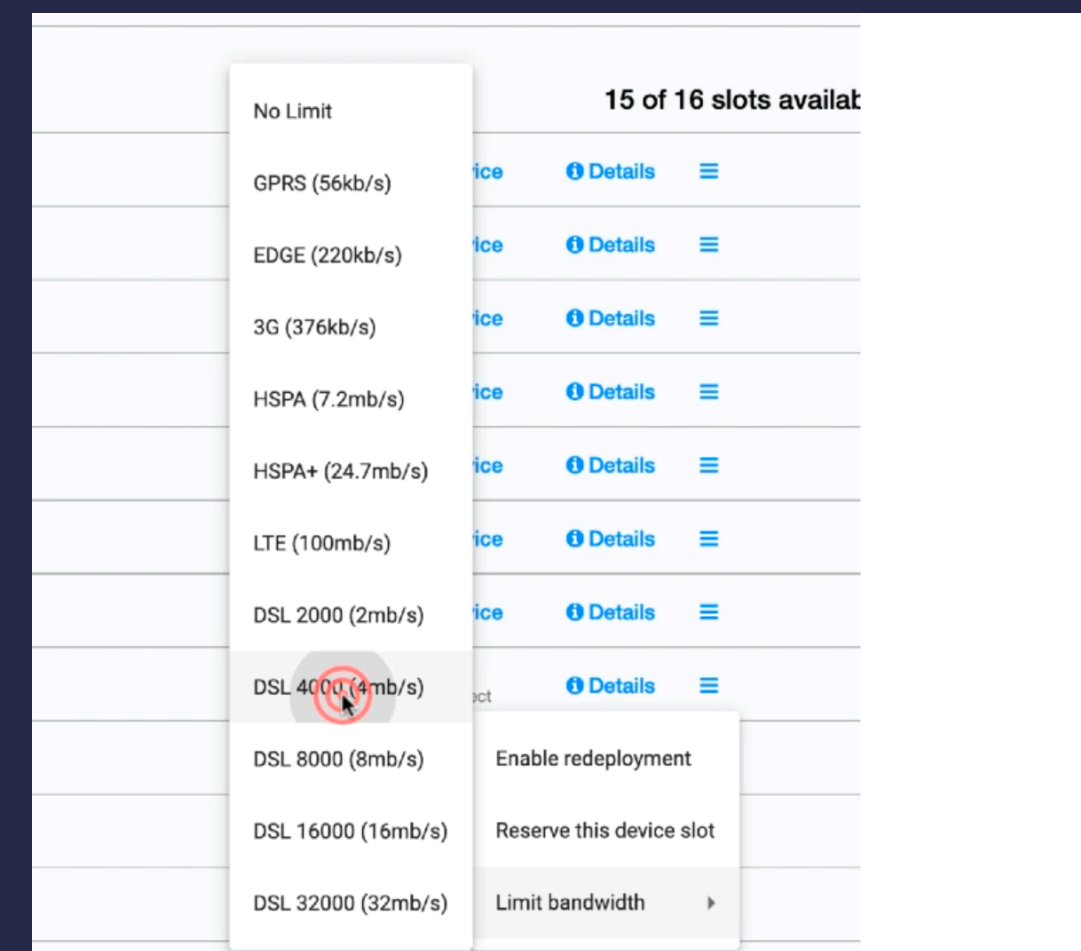
GPS



Biometrics



Network



Built-In Mobile App Management

Automatic resigning and instrumentation of Apps

MS AppCenter synchronization or manual upload

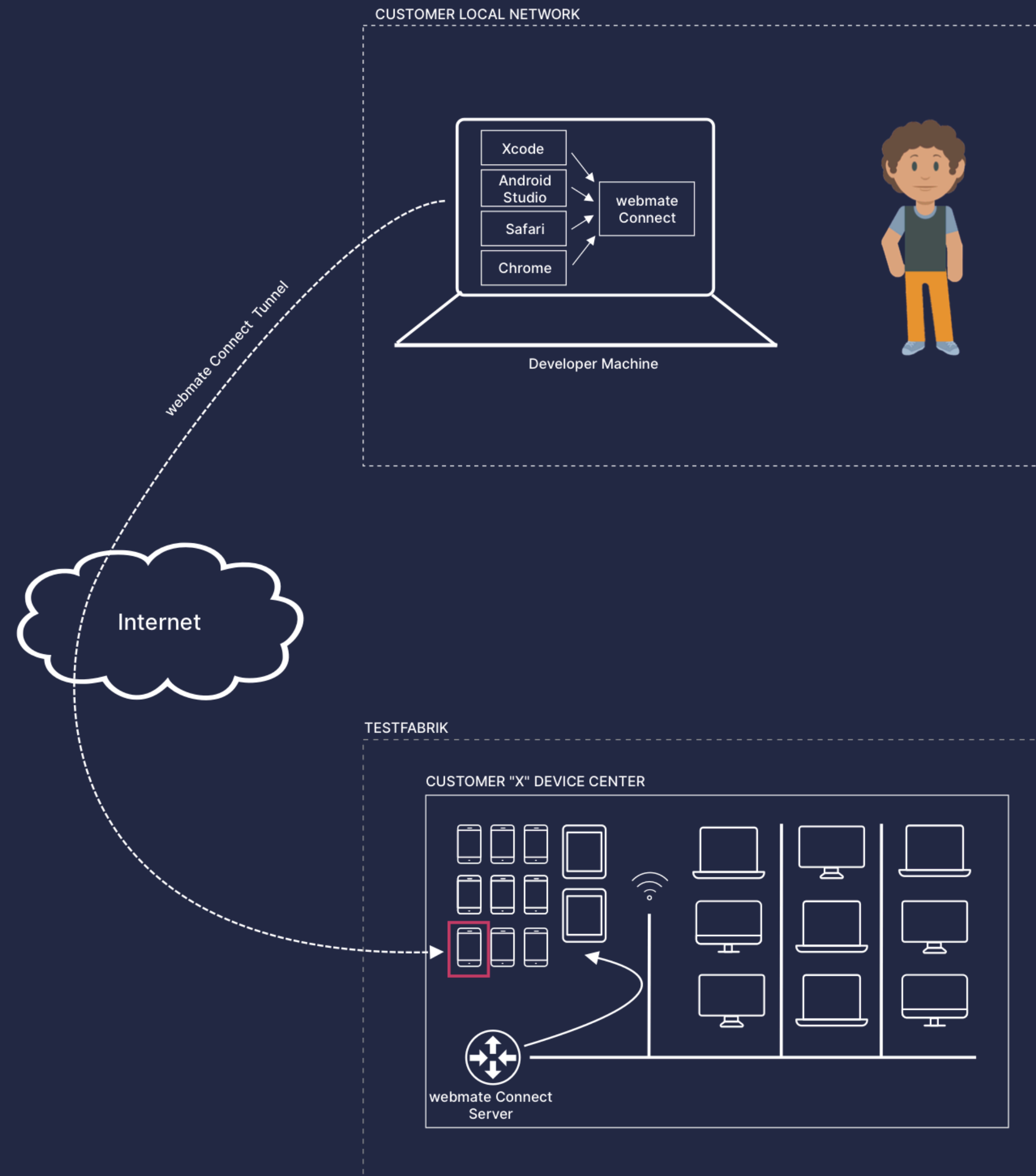
The screenshot displays the Microsoft AppCenter web interface. At the top, there's a navigation bar with 'WEBMATE PRESENTATION', 'ADMINISTRATION', and 'DOCS'. The main content area is titled 'Apps & Packages' and features a sidebar with a list of packages. The 'AC Sample App' is selected, showing its details: Package ID (57f80edf-acfe-4170-a7bd-665b2cfb7c69), Platform (Android), Package / Bundle Id (ms.appcenter.sampleapp.android), and App Version (1). Below this, the 'PACKAGE SOURCE' section shows a table with columns for Owner, App Name, Branch, Trigger, and Latest Build. The table lists 'Microsoft AppCenter' as the owner, 'thirdapp' as the app name, 'master' as the branch, and 'Latest Build' as the trigger. The latest build is identified as '#15' from '12/02/2020'. A 'Download' button is present next to this entry. Below the source table, there's an 'Upload New Version' button. The 'PACKAGE VARIANTS' section shows two variants: 'Original Package' (apk, 2.83 MB) and 'Instrumented Package' (apk, 3.22 MB). The instrumented package includes 'Biometrics' and 'Camera' instrumentation options, with 'Download' buttons for each.

OWNER	APP NAME	BRANCH	TRIGGER	LATEST BUILD
Microsoft AppCenter	thirdapp	master	Latest Build	(#15) — 12/02/2020

PACKAGE VARIANTS	TYPE	SIZE	INSTRUMENTATIONS
Original Package	apk	2.83 MB	
Instrumented Package	apk	3.22 MB	Biometrics, Camera

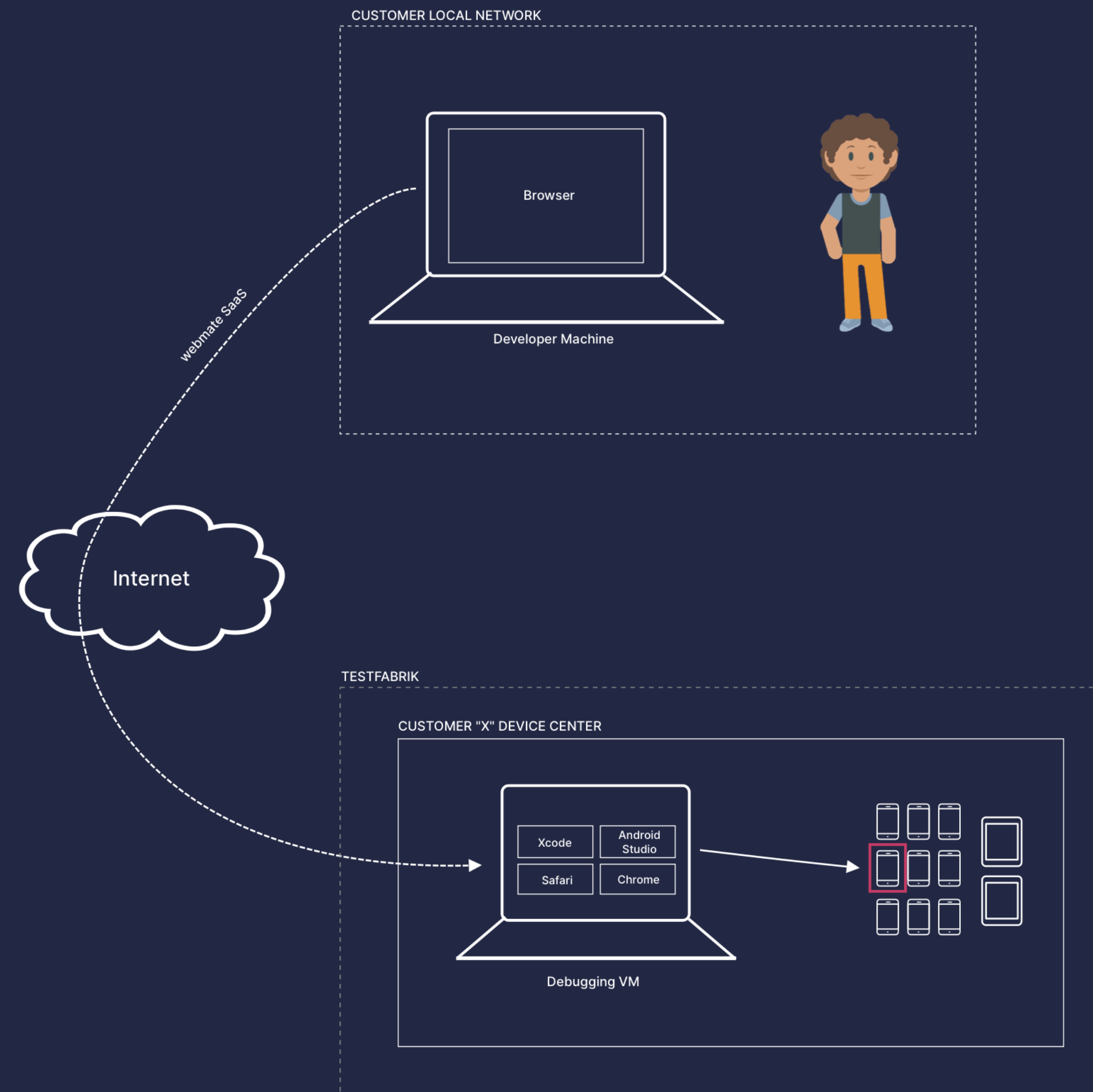
Mobile Debugging

- ▶ Use mobile devices in webmate Cloud like locally connected
- ▶ Mobile Debugging with
 - Xcode, Safari, Console libimobiledevice
 - Android Studio, Chrome, ADB
- ▶ Connect local machine to mobile device with **webmate connect**



Mobile Debugging with Debugging VM

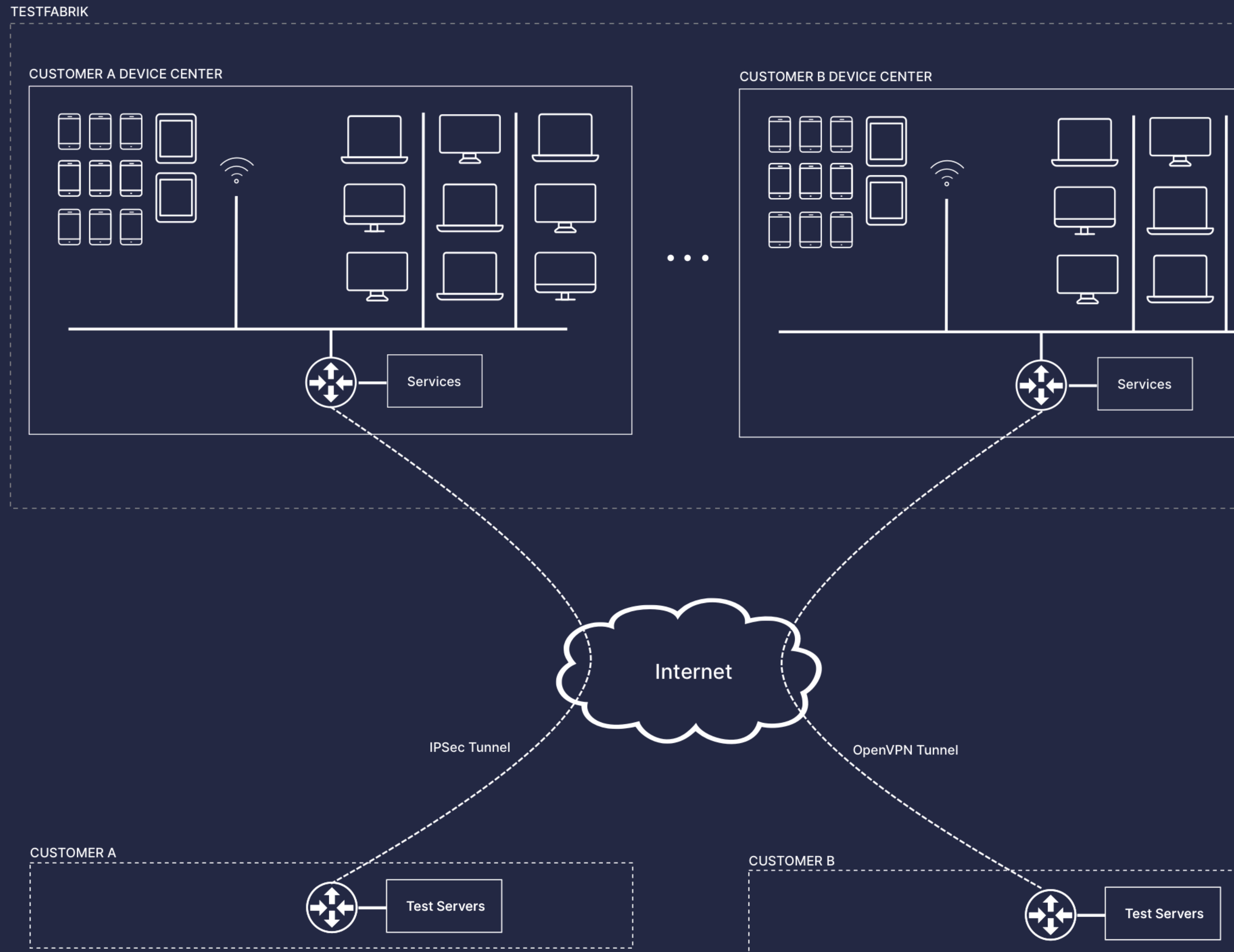
- ▶ Debug mobile devices from any machine
- ▶ Mobile Debugging with
 - Xcode, Safari, Console libimobiledevice
 - Android Studio, Chrome, ADB



ENTERPRISE INTEGRATION

VPN Integration

- ▶ Customer testing resources isolated in "customer device center"
- ▶ Every customer device center may be connected via VPN to customer networks
- ▶ VPN technologies:
 - IPsec
 - OpenVPN
 - WireGuard



User Role Management

Flexible RBAC based rights management

Roles may be assigned on a per-project basis

The screenshot shows the 'Manage Roles' page. On the left, there is a sidebar with a 'ROLES' section containing 'Default User Role', 'New Role' (highlighted), and 'New Role 1'. The main content area is for creating a new role. It includes a 'ROLE NAME' field with 'New Role' entered, a 'DESCRIPTION' field, and a 'PERMISSIONS' section with several toggle switches: 'Manage Infrastructure' (checked), 'Access Infrastructure' (checked), 'Manage Tests and Jobs' (checked), 'Execute Tests and Jobs' (unchecked), 'Manage Project Resources' (unchecked), and 'Redeploy Device' (unchecked). A modal at the bottom indicates 'There are unsaved changes.' with 'Discard' and 'Save' buttons.

The screenshot shows the 'Manage User Roles' page. The top navigation bar includes 'webmate', 'PROJECT OVERVIEW', 'ADMINISTRATION', and 'HELP'. The page title is 'Manage User Roles'. Below the title, there are 'View' and 'Filter' options. The main content area shows two users: 'Andreas Rau' and 'Bernd'. For each user, there is an 'Add to Project' button and a list of projects with their assigned roles. For Andreas Rau, the projects are 'Base Project' (Has Roles: Default User Role), 'QS Tage' (Has Roles: Default User Role), 'Testfabrik homepage' (Project membership only), and 'webmate presentation' (Has Roles: Default User Role). For Bernd, the project is 'Presentation Demo Project' (Has Roles: Default User Role). A 'HAS ROLES' section shows 'Default User Role' assigned and 'New Role' and 'New Role 1' available.

Single-Sign-On

- ▶ Use external authentication system for user management
- ▶ Fully integrated into role management: role assignment may be managed by SSO service

The screenshot shows the 'webmate' administration interface. The top navigation bar includes 'PROJECT OVERVIEW', 'ADMINISTRATION', and 'HELP'. The left sidebar contains icons for user management, roles, and other system functions. The main content area is titled 'Single Sign On (SSO)' and is divided into two columns.

Basic Settings
With SSO, webmate users may be managed in external authentication systems, such as Active Directory or Keycloak

ENABLE SSO

IDENTITY PROVIDER TYPE
OIDC (selected) SAML

OpenID Connect Configuration
Please request the OpenID Connect (OIDC) configuration information from the administrator of your IdP (Identity Provider)

CONFIGURATION TYPE
Manual (selected) Auto Discovery

AUTHORIZATION ENDPOINT URL

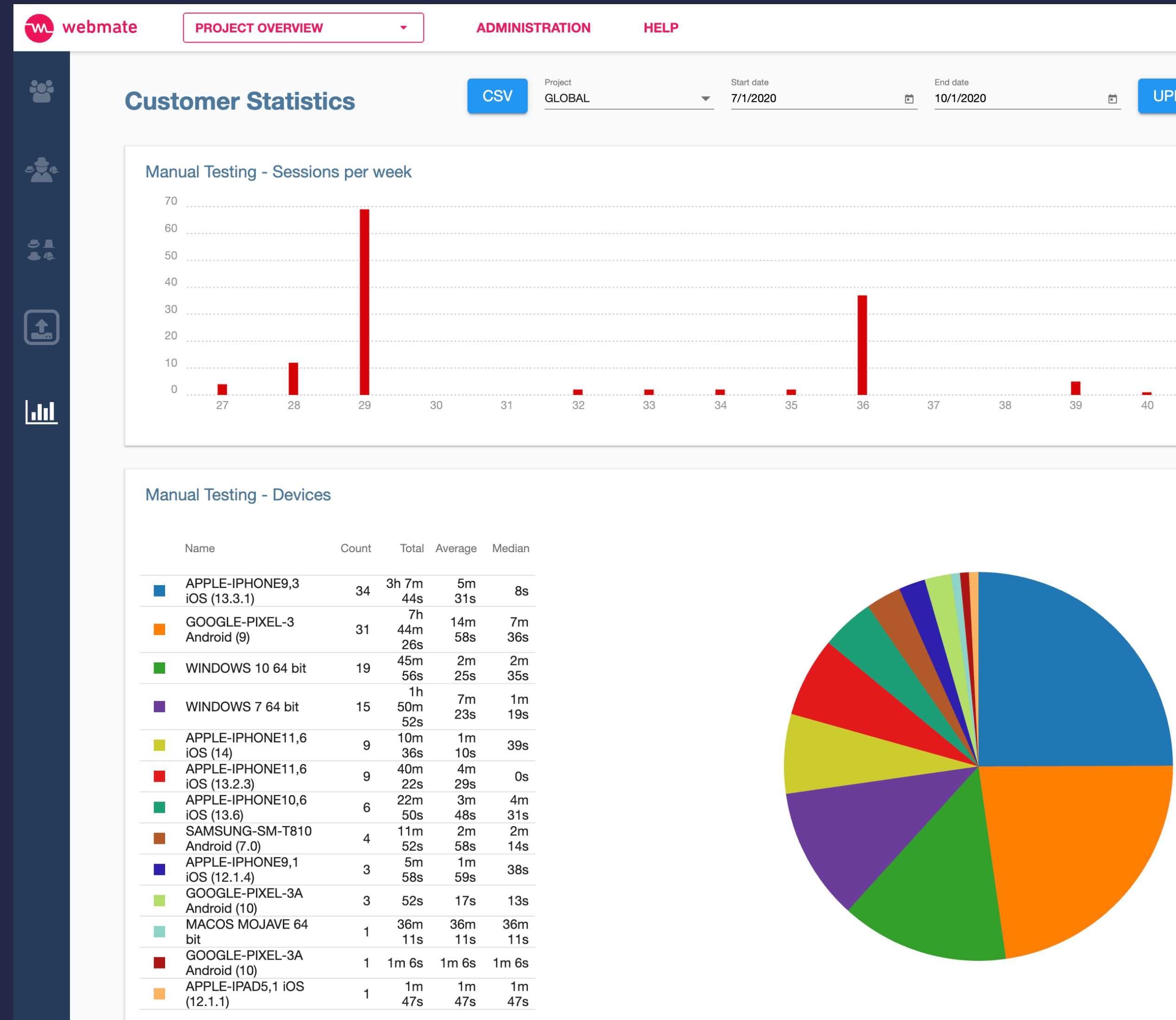
TOKEN ENDPOINT URL

CLIENT ID [?](#)

CLIENT SECRET [?](#)

Usage Statistics

- ▶ Tracks manual and automated activities
- ▶ Breakdown based on project and/or time
- ▶ CSV export for offline-processing



Tool Integrations

- ▶ Integrations into external tools
- ▶ Integrations for
 - Package / App repositories
 - Issue management services
 - Communication platforms
- ▶ Integrated into VPN infrastructure

The screenshot displays the 'Manage Integrations' page in the webmate application. The interface includes a top navigation bar with the 'webmate' logo, a 'PROJECT OVERVIEW' dropdown menu, and links for 'ADMINISTRATION' and 'HELP'. A left sidebar contains various navigation icons. The main content area is titled 'Manage Integrations' and shows a table with columns for 'INTEGRATIONS' and 'NAME'. A dropdown menu is open over the 'INTEGRATIONS' column, listing various integration options categorized into 'PACKAGE REPOSITORIES', 'ISSUE REPORTING', and 'TEST NOTIFICATIONS'. The 'PACKAGE REPOSITORIES' section includes 'Microsoft App Center'. The 'ISSUE REPORTING' section includes 'HP ALM', 'Atlassian Jira', and 'Jira with Xray'. The 'TEST NOTIFICATIONS' section includes 'Slack' and 'Microsoft Teams'. A notification bar at the bottom of the page indicates 'There are unsaved changes.' with 'Discard' and 'Save' buttons.

webmate Mobile Access

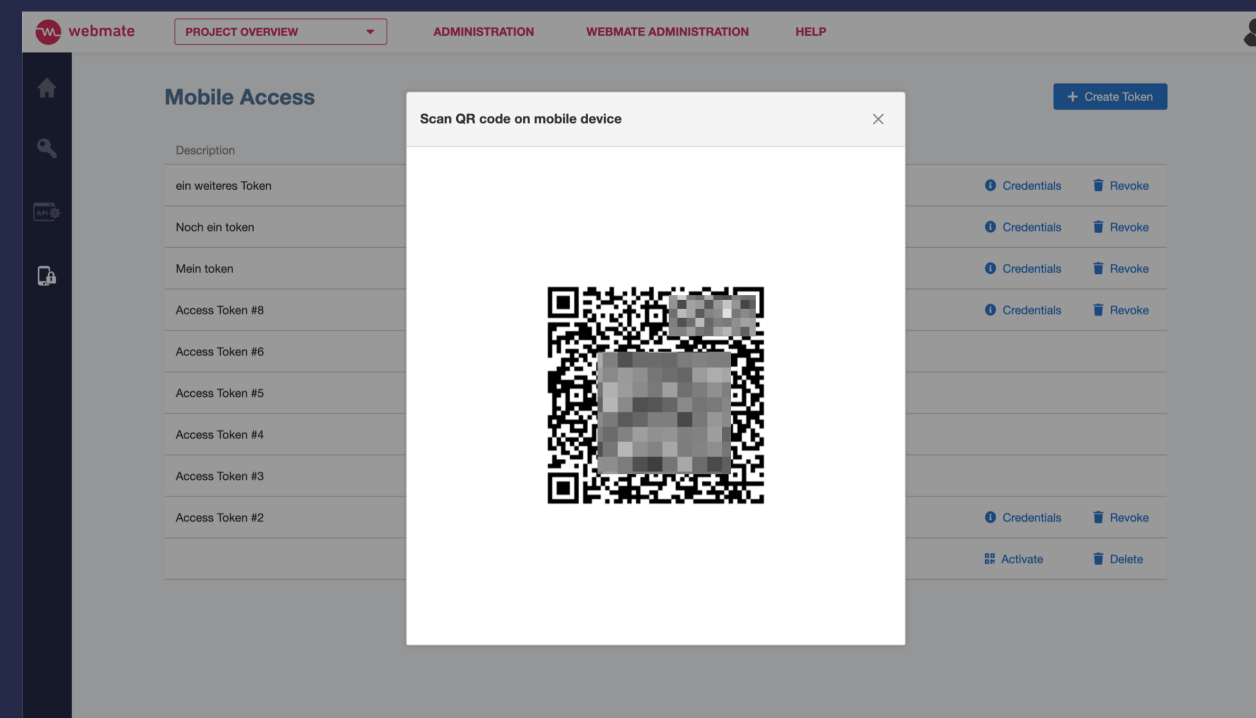
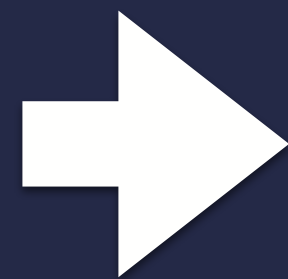
A VPN to your test infrastructure.

Makes device infrastructure accessible to local devices.



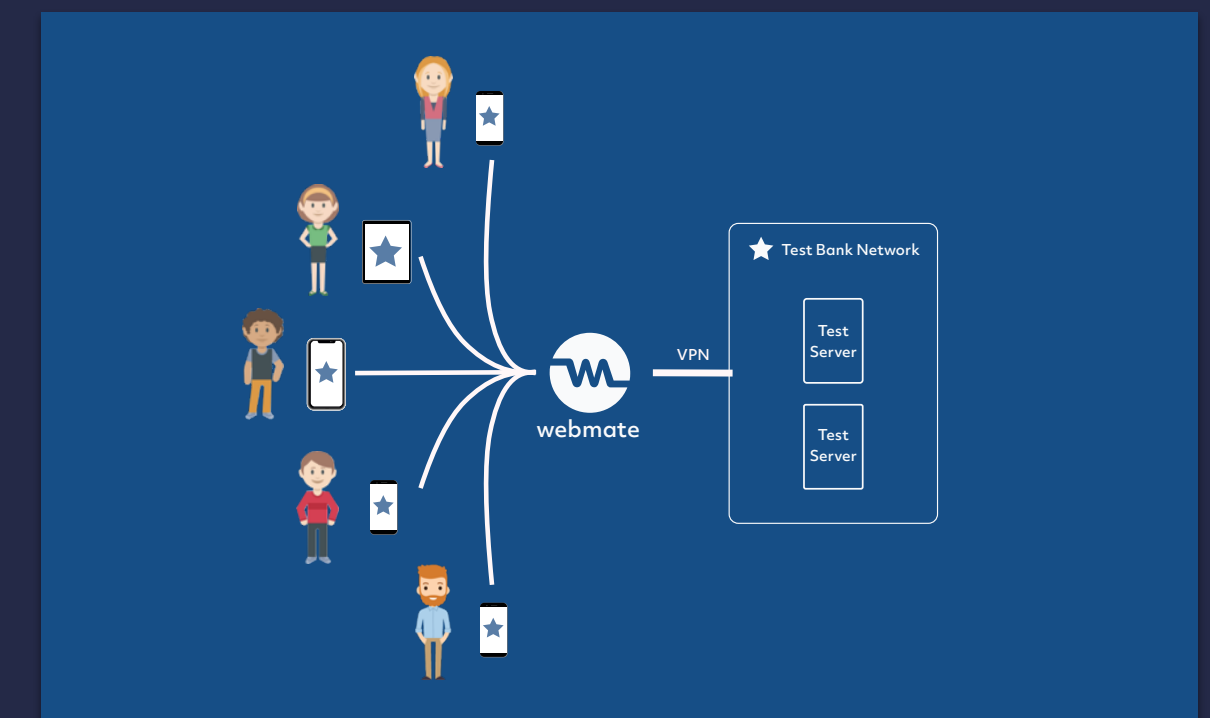
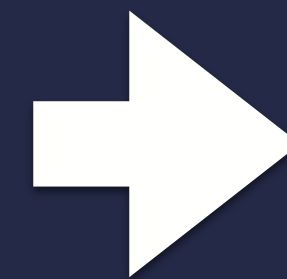
1

Use local mobile device



2

Activate device in webmate

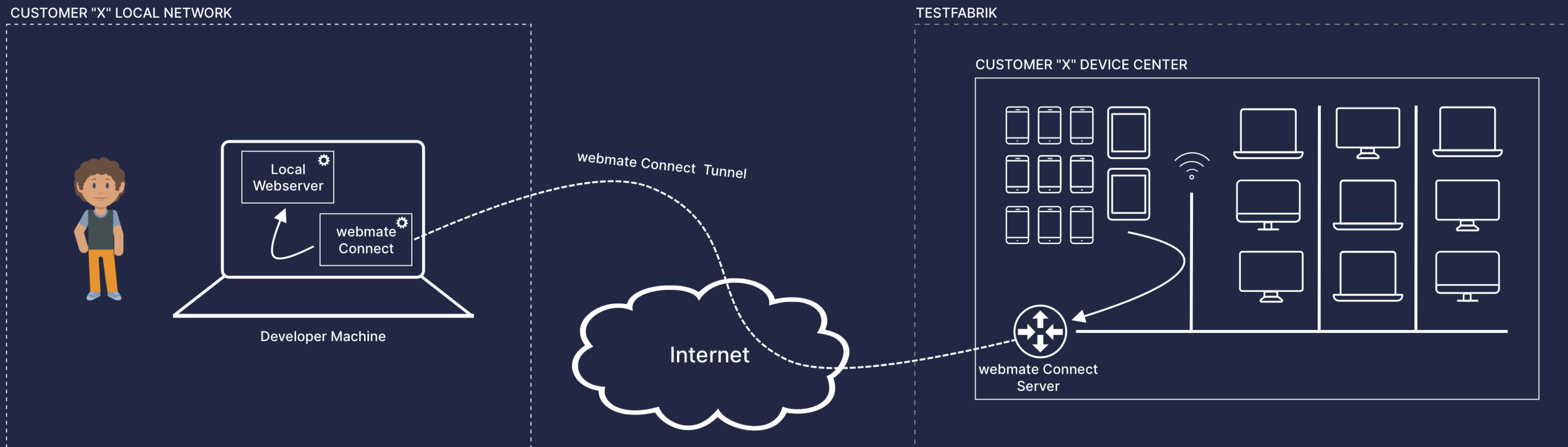


3

Access test infrastructure with device

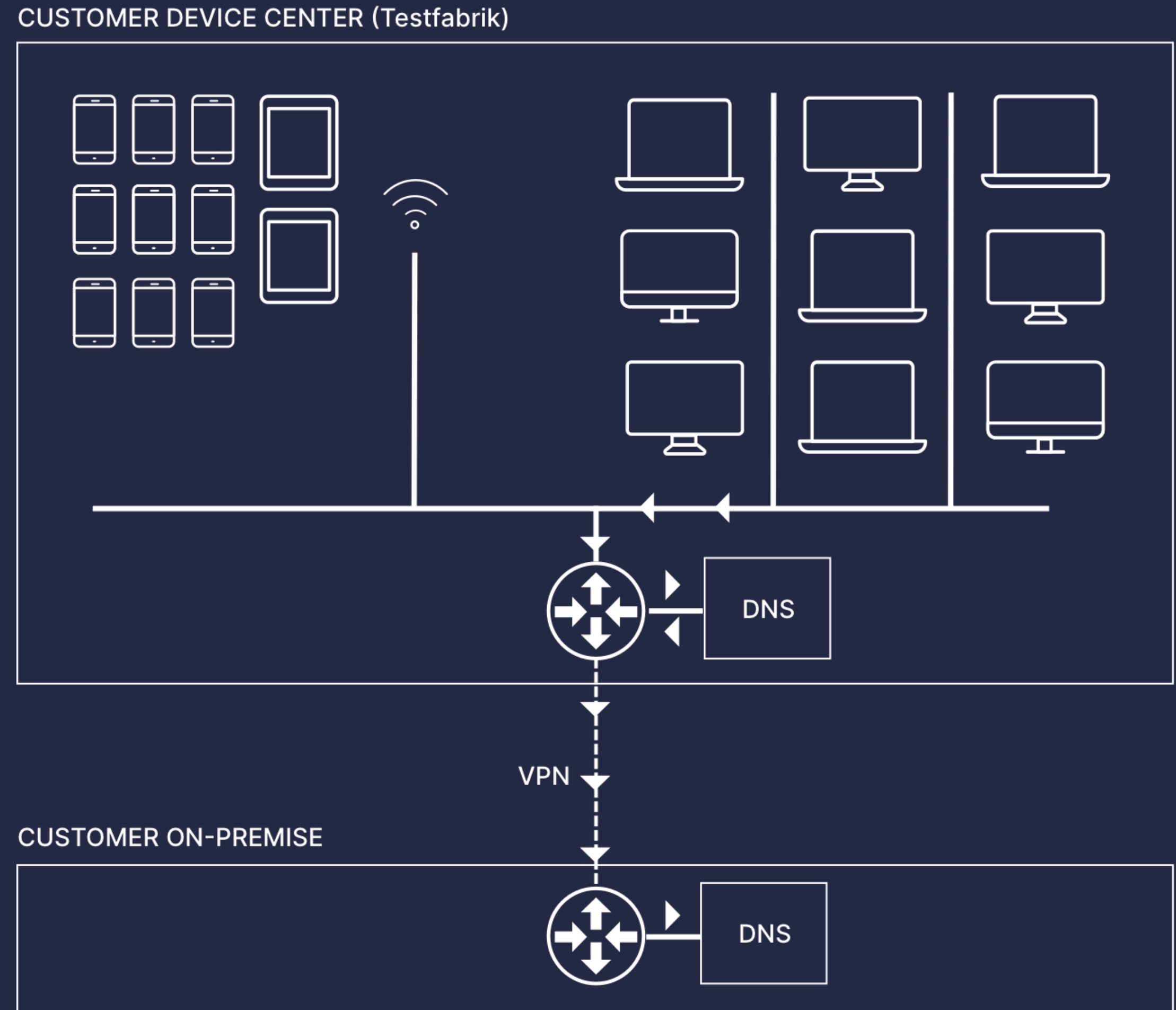
webmate Connect

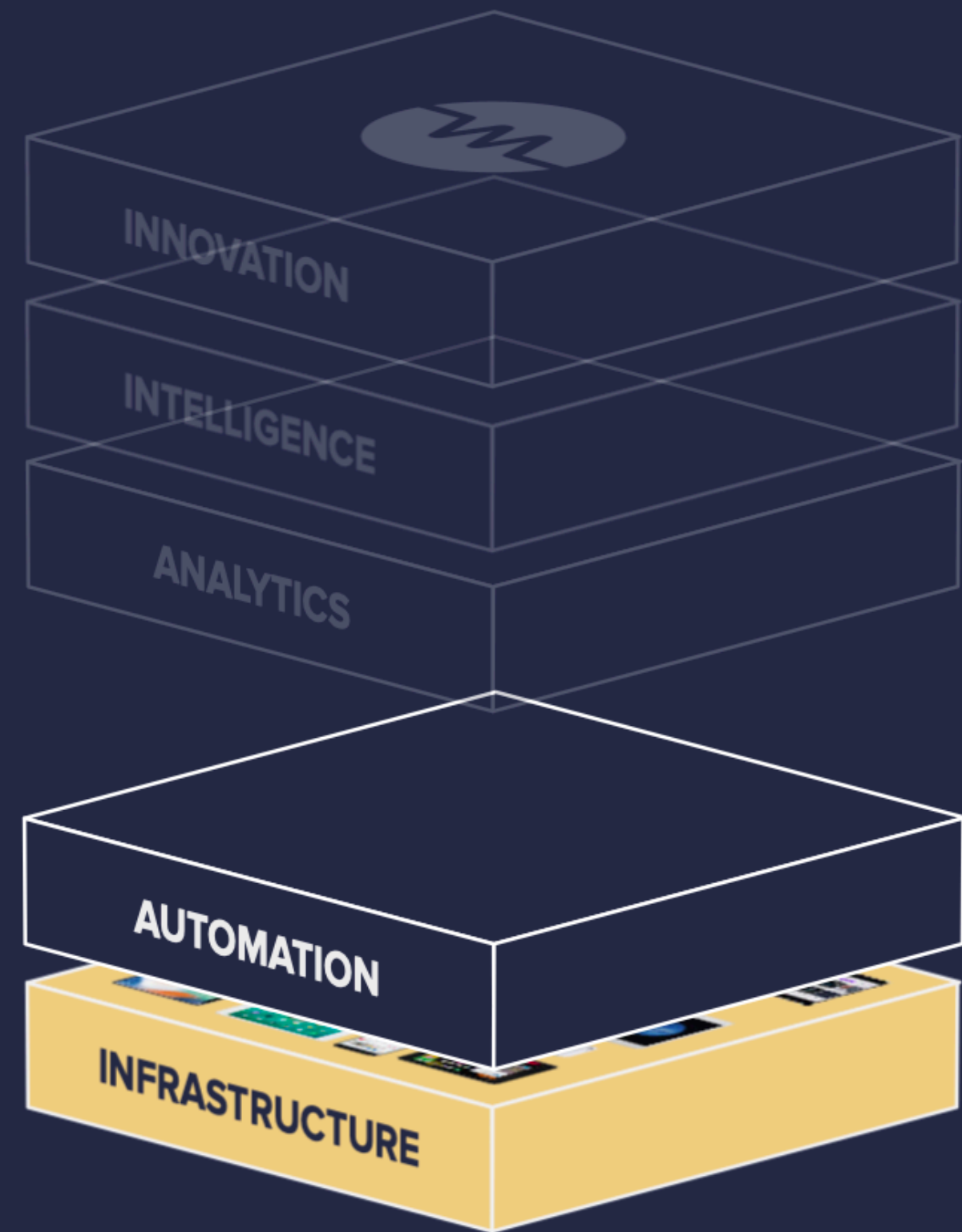
- ▶ Makes local resources accessible to the webmate testing infrastructure
- ▶ May be used by developers to test locally running applications or access local APIs
- ▶ Can also be used in CI/CD setups (e.g. for Protractor / Karma based tests) if no VPN is available



DNS Integration

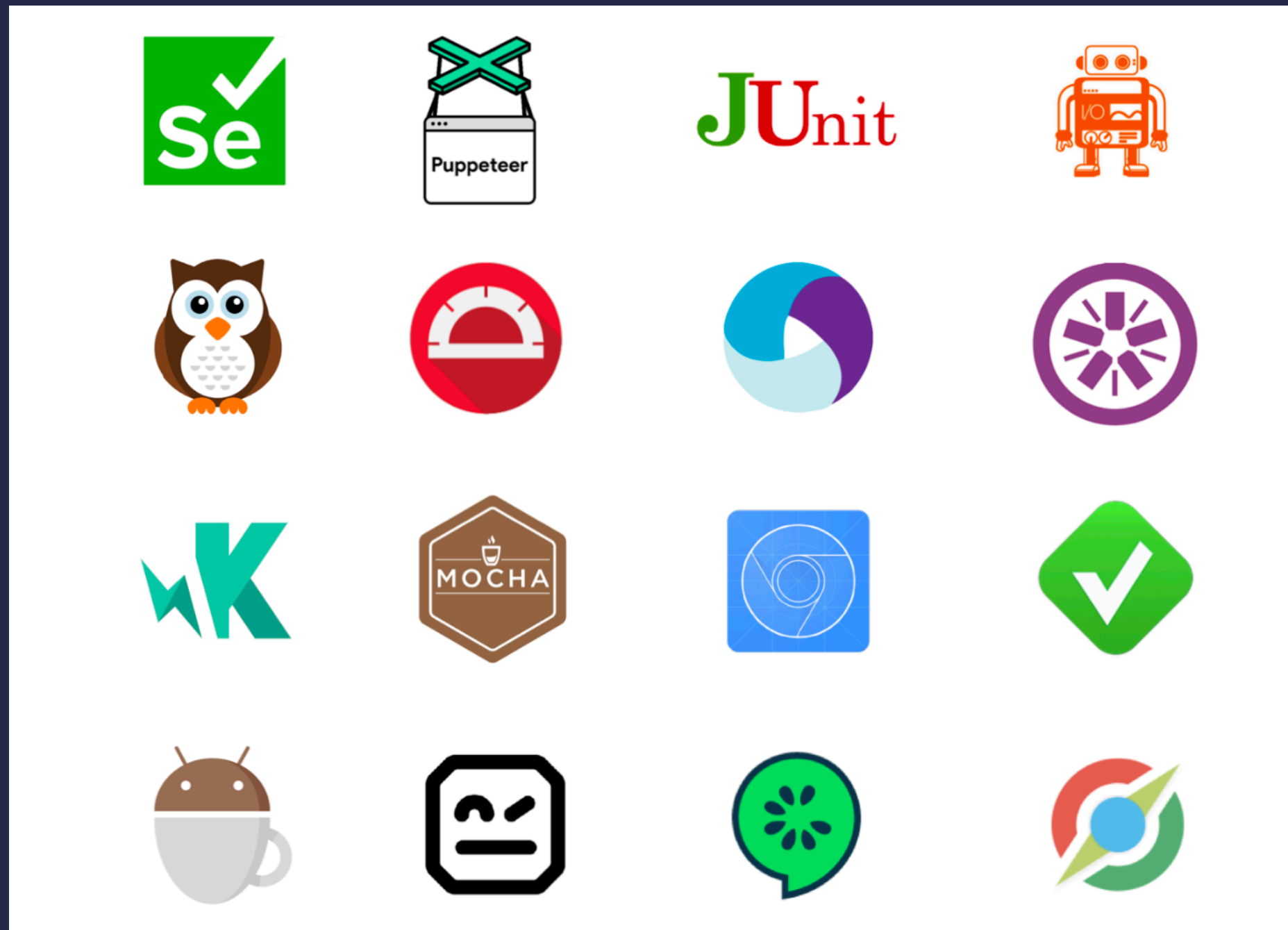
- ▶ Internal DNS servers can be used
- ▶ Alternative: Manual configuration of host names for test infrastructure
- ▶ Also possible on a per-domain basis





TEST AUTOMATION & TOOLS

Test Automation



- ▶ webmate provides infrastructure automation interfaces (WebDriver, Appium, CDP, ADB, iOS USBMUXD)
- ▶ Can be used by huge amount of test tools, e.g., Selenium, Cucumber, Fitnesse, webdriver.io, Protractor, Galen, Espresso, XCTest, Puppeteer, Playwright, Cypress, etc.

API First

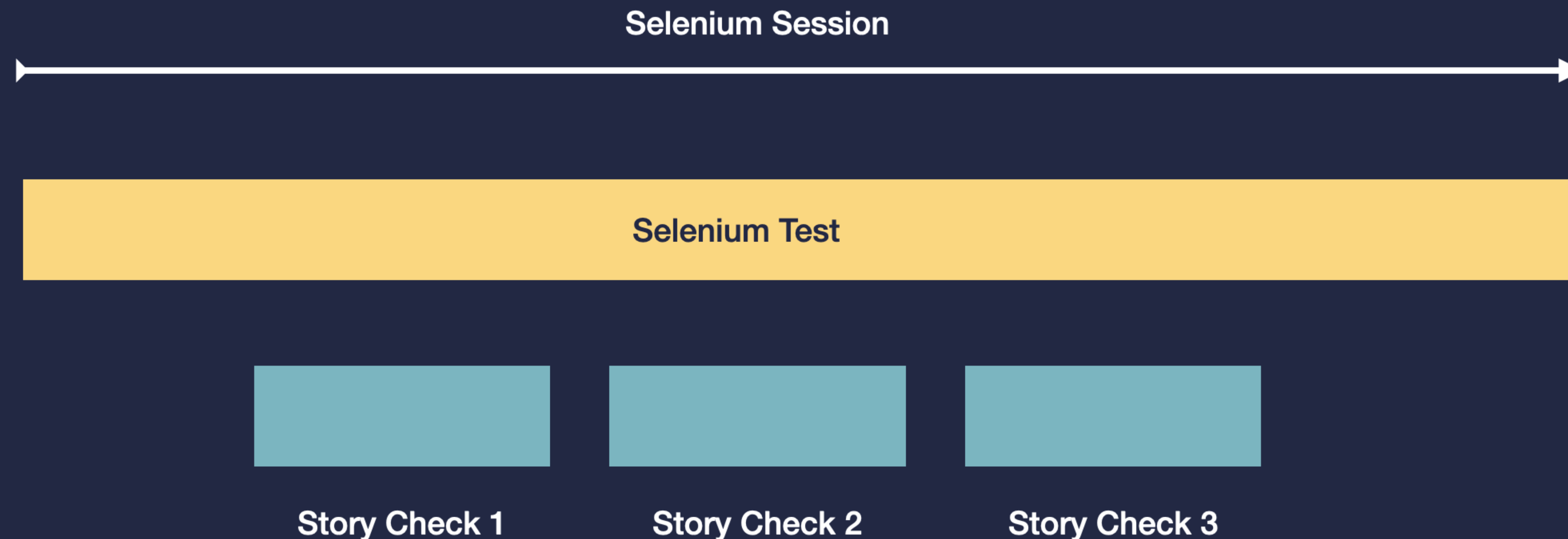
The screenshot displays the 'Test Management' section of the webmate API documentation. The left sidebar lists various API categories, with 'Test Management' selected. The main content area shows a list of REST API endpoints for Test Management, each with its HTTP method, URL, description, and a lock icon indicating it is protected.

Method	URL	Description	Protected
GET	/testmgmt/tests/{testTemplateId}	Get Test Template	Yes
PUT	/testmgmt/tests/{testTemplateId}	Update Test Template	Yes
DELETE	/testmgmt/tests/{testTemplateId}	Delete Test Template	Yes
GET	/testmgmt/testexecutions/{testExecutionId}	Get Test Execution	Yes
POST	/testmgmt/testexecutions/{testExecutionId}	Start Test Execution	Yes
GET	/testmgmt/testruns/{testRunId}	Get TestRun	Yes
DELETE	/testmgmt/testruns/{testRunId}	Delete TestRun	Yes
POST	/testmgmt/testruns/{testRunId}/finish	Finalize TestRun	Yes
POST	/testmgmt/testruns/{testRunId}/evaluationstatus	Override EvaluationStatus of TestRun	Yes
POST	/testmgmt/testruns/{testRunId}/name	Set Name of TestRun	Yes
GET	/testmgmt/testexecutions/{testExecutionId}/testruns	Get TestRuns of Test Execution	Yes
GET	/testmgmt/testruns/{testRunId}/results	Get Test results for TestRun	Yes
POST	/testmgmt/testruns/{testRunId}/results	Add a Test result for TestRun	Yes
GET	/projects/{projectId}/testmgmt/reportspecs	Get Report Specs In Project	Yes
POST	/projects/{projectId}/testmgmt/reportspecs	Add Report Specs To Project	Yes
POST	/projects/{projectId}/testmgmt/report	Query Test Report	Yes

- ▶ All webmate functions exposed via REST API
- ▶ Comprehensive SDKs available for Java and JavaScript
- ▶ OpenAPI documentation

Subdivide Tests with StoryChecks

- ▶ StoryCheck: logical test run within another test run, e.g., a Selenium session
- ▶ First-class test type in webmate



Custom Actions

Logical wrapper around low-level actions, e.g., from WebDriver or Appium

```
@Test
public void formularTest() {
    driver.get("http://www.examplepage.org/form_interaction");

    System.out.println("Click on link");
    waitForElement(driver, By.id("lk")).click();
    assertEquals("expected: \"Link Clicked!\", waitForElement(driver, By.cssSelector(\".success\")).getText());

    browserSession.createState("matchingId: \"after link\");

    browserSession.withAction("actionName: \"Click on button\", action -> {
        System.out.println("Clicking on Button");
        waitForElement(driver, By.id("bn")).click();
    });

    browserSession.withAction("actionName: \"Click on Checkbox\", action -> {
        System.out.println("Clicking on Checkbox");
        waitForElement(driver, By.id("ck")).click();
        action.finishActionAsFailure("errorMessage: \"Not really a failure but anyway\");
    });
}
```

StoryCheck Result View

Action
timeline

Session video
and screenshots

The screenshot displays the StoryCheck Result View in the webmate application. The interface includes a top navigation bar with the webmate logo, a dropdown menu for "WEBINAR AUTOMATED TESTING", and links for "ADMINISTRATION" and "HELP". The main content area is titled "Story Check Test" and shows a Selenium test run that has failed. The test run details include the Selenium icon, a "FAILED" status, the date and time "2021-03-25 15:28", and the duration "Duration: a few seconds". The test run is associated with the browser "webinar" and the automation type "automation".

The test run details are as follows:

- IsElementEnabled (id = undefined) - Success
- GetElementText (id = 1bd6ee9f-645f-4a05-a5ac-a15683f55ea3) - Success
- after link - Success
- Click on button - Success
- Click on Checkbox - Failure (Not really a failure but anyway) - Duration: 15:29:00.65 (744ms)
- FindElement (css = #ck) - Success
- ExecuteScript - Success
- IsElementEnabled (id = undefined) - Success
- ElementClick (id = 5a69cbab-443e-4302-9f27-517987219475) - Success
- Click on Radiobutton - Success

The "Click on Checkbox" failure details are shown in a red box:

- Not really a failure but anyway
- 15:29:00.65 (744ms)
- FindElement (css = #ck) - Success
- ExecuteScript - Success
- IsElementEnabled (id = undefined) - Success
- ElementClick (id = 5a69cbab-443e-4302-9f27-517987219475) - Success

The "CLICKS" section shows the following actions:

- link click - link Clicked!
- button click - Button Clicked!
- checkbox click - Checkbox Clicked!
- radio button - radio button

The "HOVER" section shows the following action:

- hover me!

The "INPUT" section shows the following action:

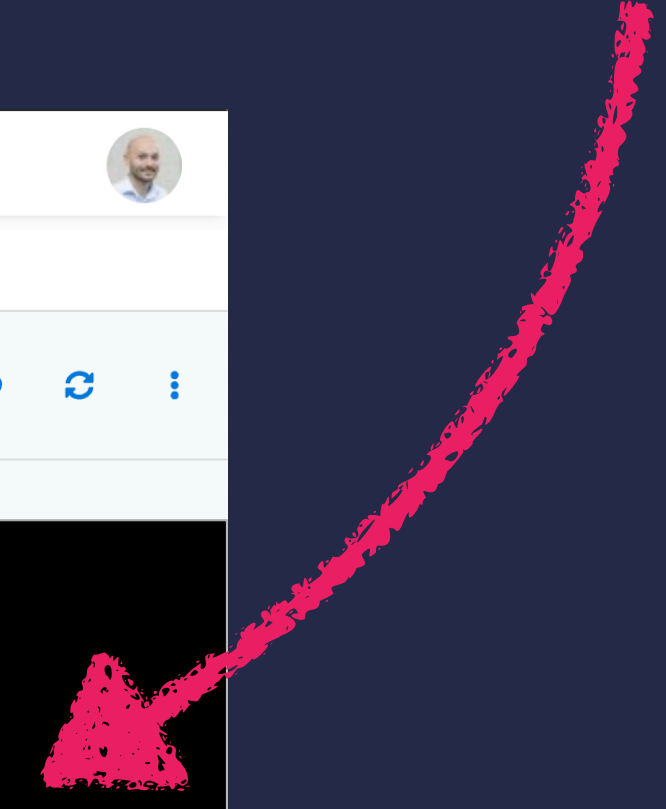
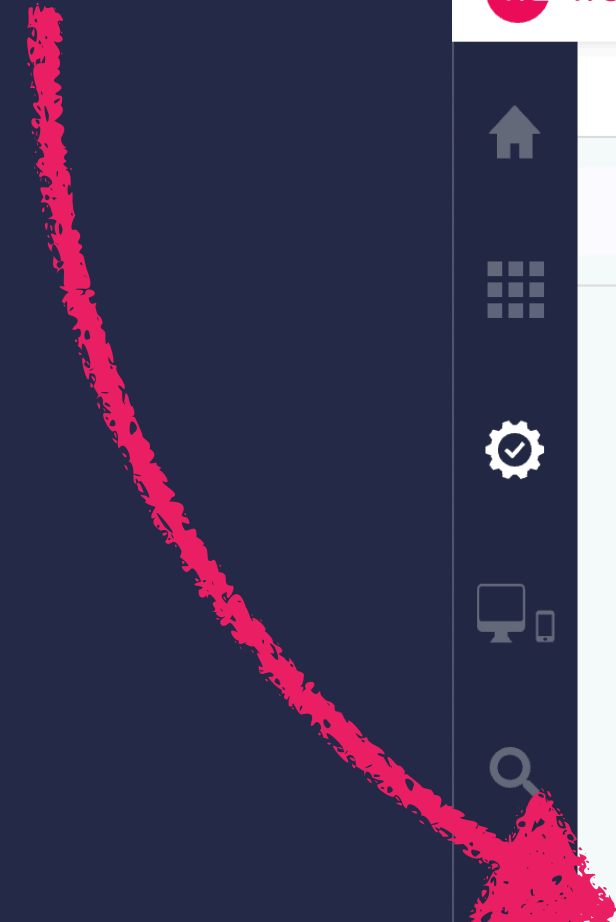
- scroll me!

The "SCROLL" section shows the following action:

- scroll me!

The bottom of the screenshot shows a timeline of actions and states:

- Action.ActionStart
- Action.BrowserSessionState - after link, after radio button, after click
- DOM.DomLayoutTree
- Page.FullpageScreenshot
- Page.Screenshot





< Ratenkauf E2E Test



Selenium



PASSED



2021-05-05 12:21



2021-05-05 12:22

produkt ratenkauf regression sprint 34

Report Issues



- Szenario: Willkommen Seite öffnen, Initialisierungsdaten eintragen und zu Finanzierungsdaten navigieren** ✓
- Szenario: Laufzeit wählen und zu Datenerfassen navigieren** ✓
- 12:22:20.74 (4519ms)
- Wenn ich die Laufzeit auswähle** ✓
- Und zur nächsten Seite navigiere** ✓
- 12:22:23.00 (654ms)
- FindElement** ✓
css = #next\~btn
- /wd/hub/session/860b3936-8ae1-4d93-b455-9840e45cf8ef/actions** ✓
- Dann bin ich auf der Datenerfassen Seite gelandet** ✓
- Szenario: Persönliche Daten erfassen und zur Entscheidungsseite navigieren** ✓
- Szenario: Angebot bestätigen** ✓

ratenkauf by easyCredit

Testshop im Direktvertrieb

Daten für Ihren Ratenkauf

Ihre persönlichen Daten benötigen wir für die Prüfung Ihres Ratenwunsches.

Daten zu Ihrer Person

Anrede * Herr Frau

Vorname *

Nachname *

Geburtsdatum *

Beschäftigungsart *

Monatliches Nettoeinkommen *

Wohnadresse und Kontaktdaten

Straße & Hausnummer *

PLZ & Ort *

Email *

Mobilfunknummer *

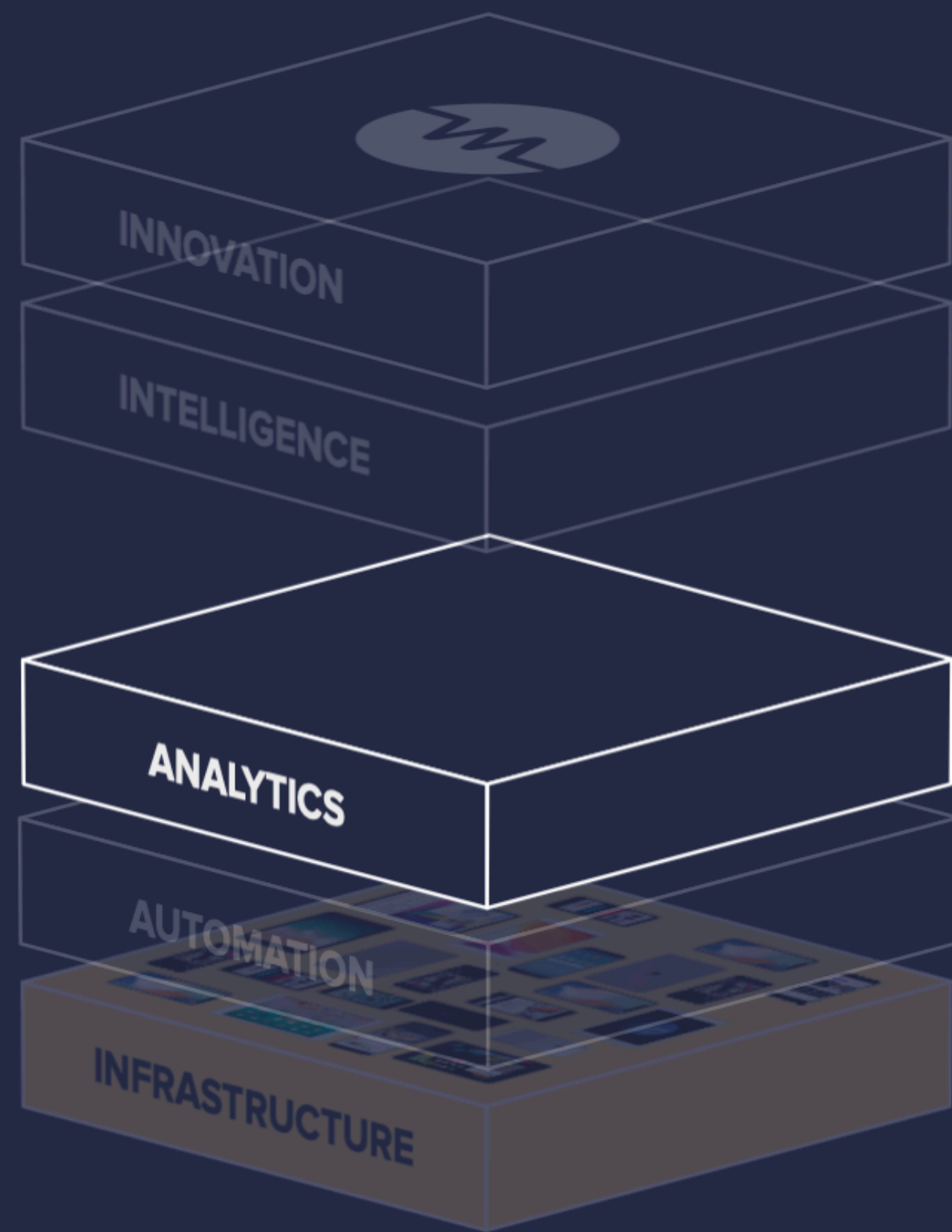
Ihr Konto für den Rateneinzug

IBAN *

Zustimmungen

Ja, ich möchte per Ratenkauf zahlen. Ich habe die Bedingungen der Verarbeitung meiner personenbezogenen Daten durch die TeamBank AG (Partner der Genossenschaftlichen FinanzGruppe Volksbanken Raiffeisenbanken) sowie durch Auskunfteien zur Kenntnis genommen. Die Erhebung und Verarbeitung erfolgt zum Zweck der Bonitäts- und Identitätsprüfung sowie Betrugsprävention.





TEST ANALYTICS & MANAGEMENT

Test Reports

Tag-based filtering

Data export

Save and share filter settings

Interactive drill-down

Overview of past test runs

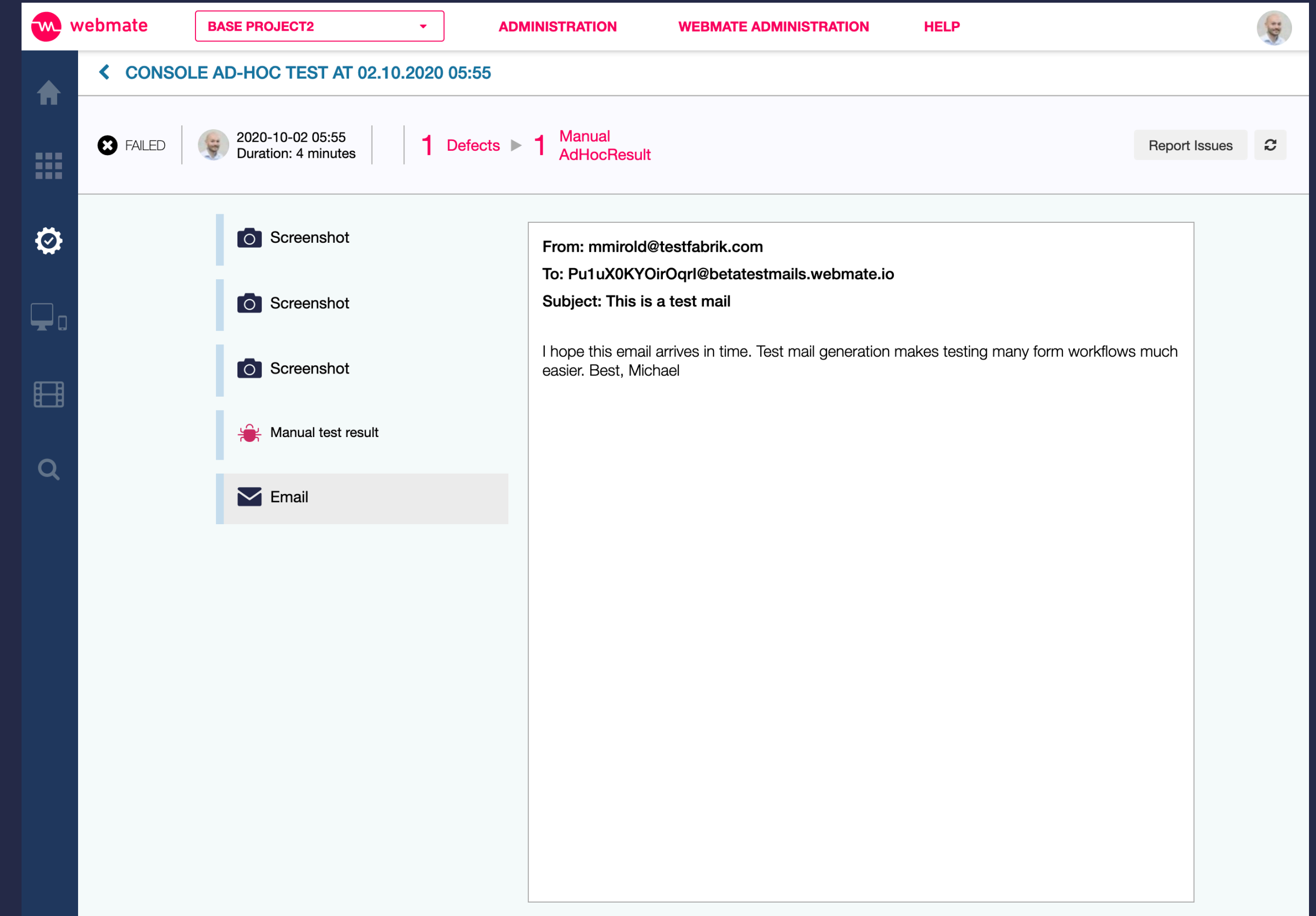
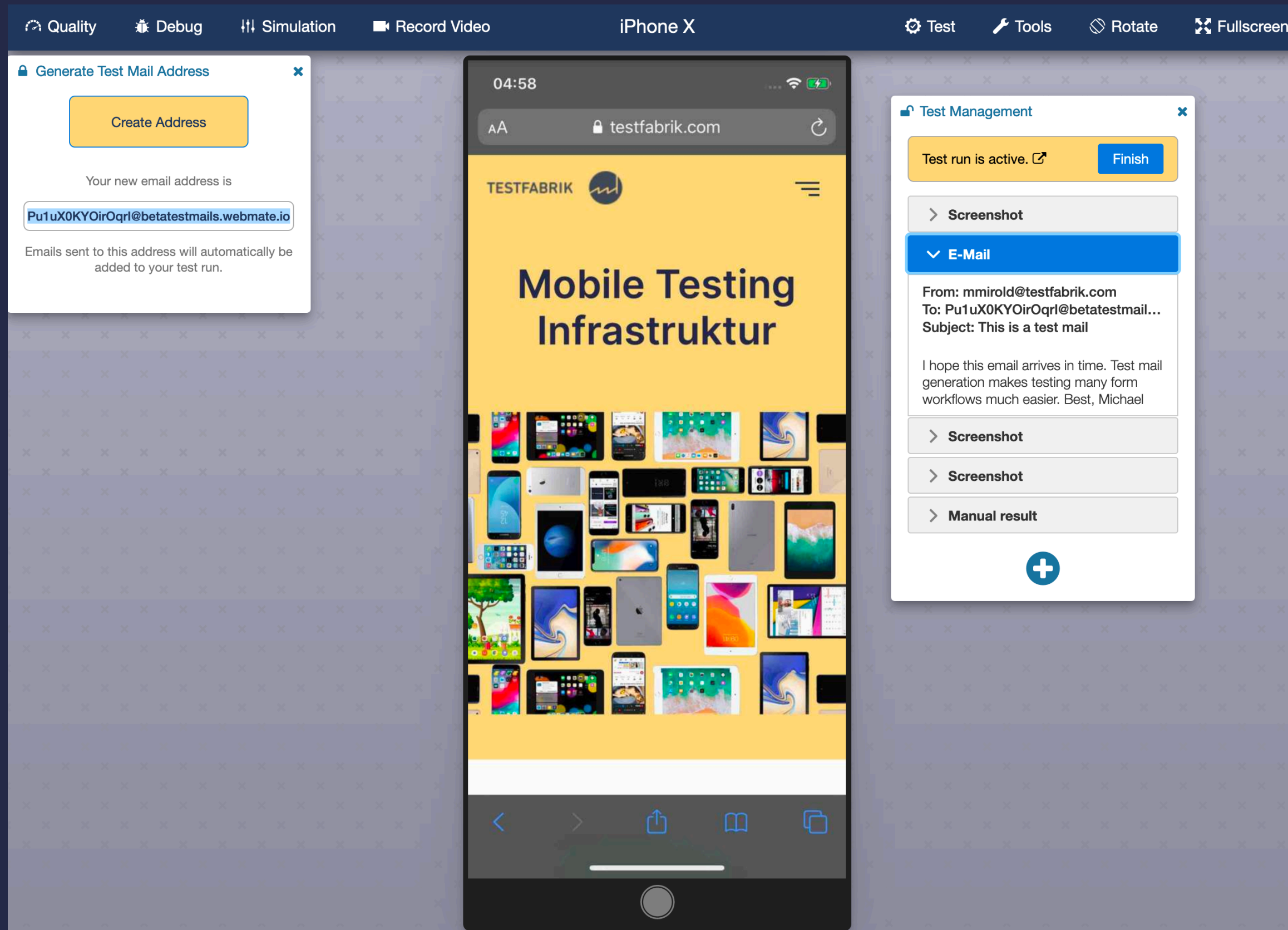
The screenshot displays the 'Test Reports' interface in the webmate application. At the top, there is a navigation bar with the 'webmate' logo, a dropdown menu for 'WEBINAR AUTOMATED TESTING', and links for 'ADMINISTRATION' and 'HELP'. Below this is a secondary navigation bar with 'TestLab', 'Test Runs', and 'Templates'. The main content area features a filter bar with options for 'Unsaved Report', 'Past year', 'Tags', 'Status', 'Test Types', and 'Browsers'. A 'Time Range' selector is set to 'Past year', and an 'Export CSV' link is visible. The central dashboard includes a summary for '39 Tests' (30 Passed, 9 Failed) and a sunburst chart showing the distribution of test results across different categories like 'Selenium', 'Story Check', and 'Chrome'. To the right of the chart is a 'Selected (3 max)' list with 'Test Type', 'Test Result', and 'Browser Type', and an 'Available' list with 'Browser Version', 'Platform Type', and 'Platform Version'. At the bottom, a table lists recent test runs with columns for status, name, type, browser, date, duration, and tags. A 'Group by Test Session' checkbox is checked.

Test Run	Status	Passed	Failed	Running	Error	Browser	Date	Duration	Tags
Nightly Test Session	✓	3	0	0	0	CHROME 86 WINDOWS 7	2021-03-25 15:32		
redirectTest(test_sessions.TestSessi...)	✓					CHROME 86 WINDOWS 7	2021-03-25 15:33	0m 8s	2021-03-25
formularTest(test_sessions.TestSessi...)	✓					CHROME 86 WINDOWS 7	2021-03-25 15:33	0m 17s	2021-03-25
Test Sessions Test	✓					CHROME 86 WINDOWS 7	2021-03-25 15:32	0m 39s	webinar automation
Test session for redirectTest(story_checks.StoryChec...)	✓	1	0	0	0	CHROME 86 WINDOWS 7			

Documenting Manual Tests

Perform interactive test in console

Access test result in reports or for issue export



Test Mail Accounts

Simplify testing journeys where users must enter email addresses

The image illustrates a workflow for generating and using test email accounts in a mobile testing environment. It is divided into several key components:

- Generate Test Mail Address Dialog:** A white dialog box with a yellow 'Create Address' button. Below the button, it displays the generated email address: `3iecBHf2OQsl2I9@betatestmails.webmate.io`. A note states: "Emails sent to this address will automatically be added to your test run."
- Simulated iPhone X Home Screen:** A vertical view of an iPhone X home screen with various app icons like FaceTime, Podcasts, and Files. A red arrow points from the generated email address in the dialog to the 'To' field of an email composition screen.
- Test Management Panel:** A white panel on the right side of the interface. It shows "Test run is active." with a "Finish" button. Below, it lists actions like "Screenshot" and "E-Mail". The "E-Mail" section is expanded, showing the details of the test email.
- Test Email Details:** A detailed view of the generated email. The header shows "To: 3iecBHf2OQsl2I9@betatestmails.webmate.io", "Subject: This is a test mail", and "From: Michael Miroid - mmiroid@testfabrik.com". The body text reads: "I hope this email arrives in time. Test mail generation makes testing many form workflows much easier. Best, Michael".
- Mobile Testing Infrastructure App:** A central vertical view of a mobile app interface. The top header says "TESTFABRIK". The main content area features the text "Mobile Testing Infrastruktur" above a grid of various mobile device screens. A red arrow points from the "E-Mail" section of the Test Management panel to this app view.

Tests and Test Runs

- ▶ All testing activity in webmate creates **Test Runs**
- ▶ Different types (more to come):
 - **Selenium / Appium**: created for new sessions
 - **StoryCheck**: logical test within an automated session
 - **Ad-Hoc Check**: documentation of interactive test
 - **Expedition Check**: model verification in an automated session
 - **Expedition Comparison**: comparison of sessions, e.g. Selenium

The image displays three overlapping screenshots of the webmate web interface, illustrating various test run scenarios and configurations.

- Top Screenshot:** Shows a successful test run for 'testInteractionPagelsTestable'. The status is 'PASSED' with a duration of 'a few seconds'. It includes details for the Selenium test runner, project 'DBBackend', and a list of tags like 'Product', 'Leben', and 'GIT'. A 'Report Issues' button is visible.
- Middle Screenshot:** Shows a failed test run titled 'CONSOLE AD-HOC TEST AT 02.10.2020 05:55'. The status is 'FAILED' with a duration of '4 minutes' and '1 Defects'. A 'Manual AdHocResult' is noted. It features a 'Screenshot' section with a placeholder for an email notification from 'mmirol@testfabrik.com'.
- Bottom Screenshot:** Shows an 'UNNAMED TEST' with a 'PASSED' status and a duration of '4 minutes'. It displays '5 Defects' including '2 IncorrectDimensions', '2 IncorrectPosition', and '1 MissingElement'. The interface includes configuration sections for 'COMPARISONEXPEDITIONSPEC' and 'REFERENCEEXPEDITIONSPEC', both listing 'http://examplepage.org' as the URL. It also shows browser configurations for 'firefox 60' and 'chrome 85'. A '5 Differences' panel on the right lists specific layout issues like 'Incorrect Dimensions', 'Incorrect Position', and 'Missing Element' with their respective XPath selectors.

Issue Reporting / Export

- ▶ Test Run results can be exported to external services, e.g., **HP ALM** or **Jira**
- ▶ Information in Test run can be attached to exported issue, e.g. screenshots, emails
- ▶ Custom fields may be defined in admin area

webmate BASE PROJECT2 ADMINISTRATION WEBMATE ADMINISTRATION HELP

CONSOLE AD-HOC TEST AT 02.10.2020 05:55

Issue Reporter

Report Issue

Issue Report Target CHOOSE TARGET
ALM Testinstanz

Choose the instance of an issue reporter integration, i.e. where do you want to create a new issue?

Custom Fields
Fields specific to your ALM instance.

FEHLER ID CC
[Text Input]

FEHLER STATUS
NEU

ANWENDUNG
[Dropdown]

ANWENDUNGSKOMPONENTE
[Dropdown]

PROJECT
[Dropdown]

UNTERPROJEKT
[Dropdown]

GEFUNDEN IN TESTPROJECT
[Dropdown]

TESTUMGEBUNG
[Dropdown]

ZIELZYKLUS
[Dropdown]

LÖSUNGSRELEASE
[Dropdown]

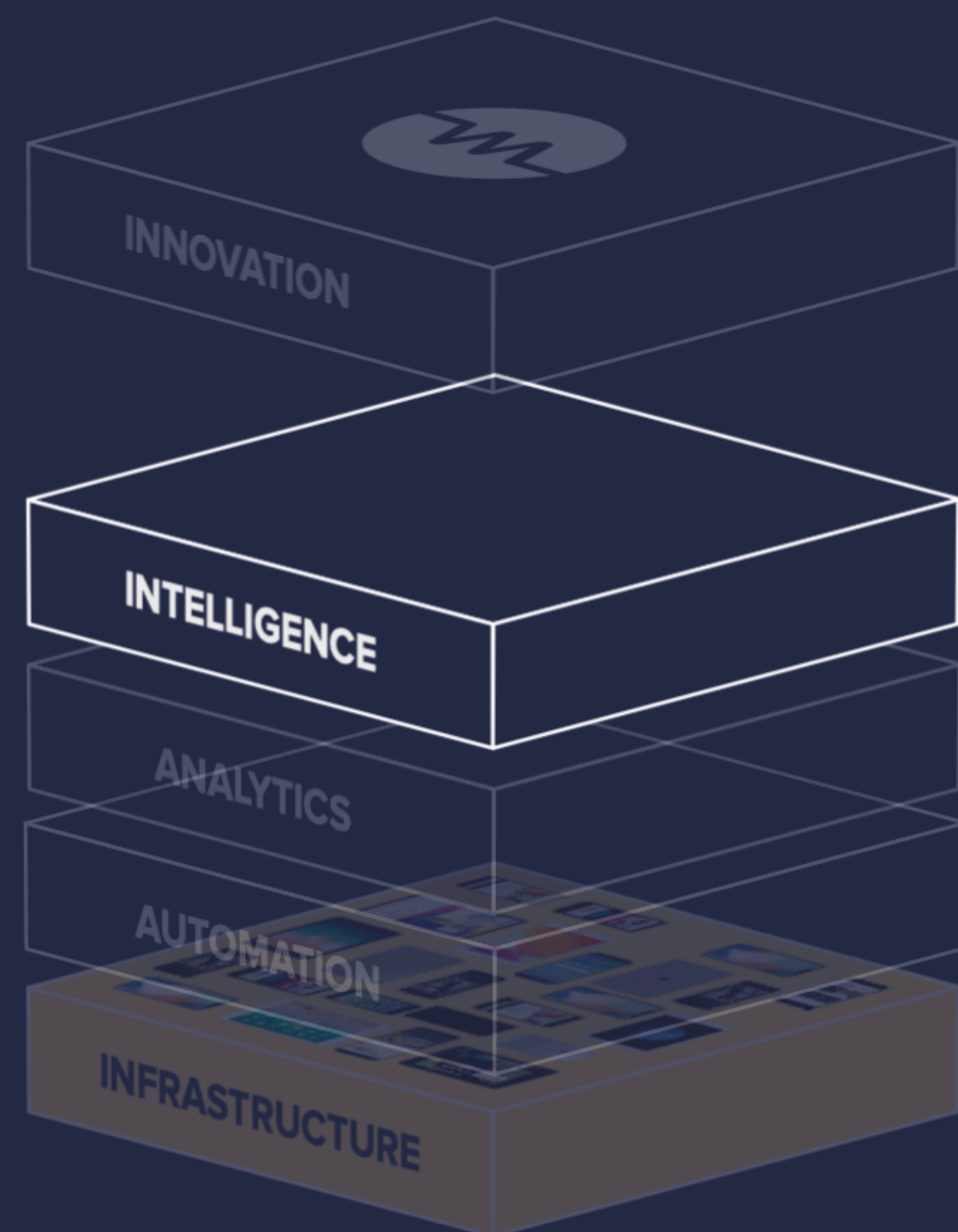
Attachments
Attach test run information to the reported issue.

- > Screenshot
- > E-Mail
- < Screenshot

[Screenshot of a mobile phone home screen]

> Screenshot

Report Issue

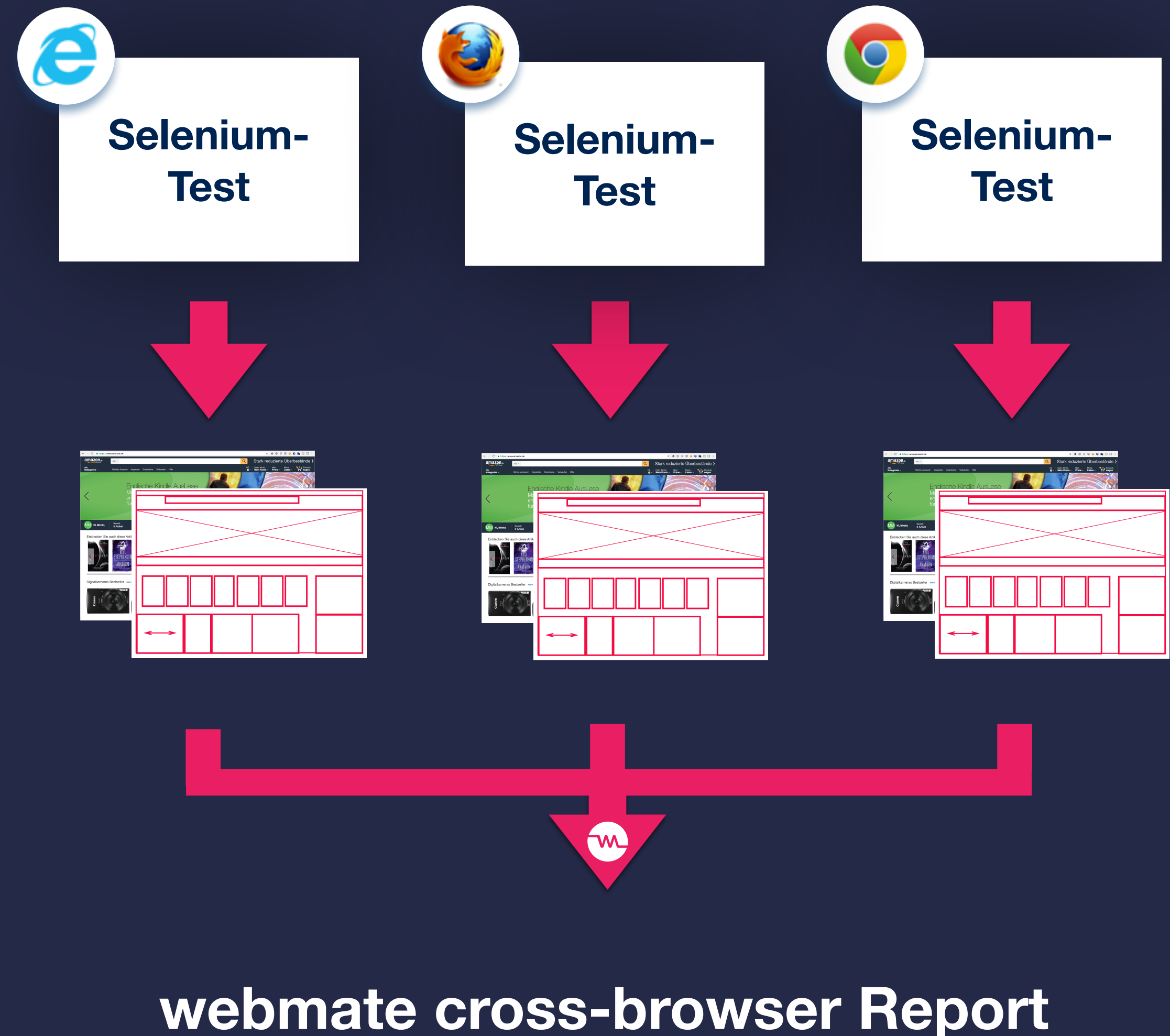


AI POWERED TEST AUTOMATION

Fully Automated Cross-browser Checks

- ▶ Finds layout and content deviations between browsers
- ▶ Based on existing Selenium tests or URL lists
- ▶ Interesting "states" are designated in WebDriver scripts

```
browserSession.createState( matchingId: "after link");  
  
waitForElement(driver, By.id("bn")).click();  
  
waitForElement(driver, By.id("ck")).click();  
  
waitForElement(driver, By.id("rd")).click();  
  
browserSession.createState( matchingId: "after radio button");  
  
waitForElement(driver, By.id("mover")).click();
```



Fully Automated Cross-browser Checks

webmate WEBMATE PRESENTATION ADMINISTRATION HELP

SeleniumCrossbrow... Session LAST RUN 09/24/2019 184 DIFFERENCES Rerun test

SELENIUM 09/24/2019 0 States 03:26 SELENIUM 09/24/2019 0 States 03:27 SELENIUM 09/24/2019 0 States 03:29

183 startseite 1 goldstrand

Reference Browser: FIREFOX 61 WINDOWS 7 Selected Cross Browser: SAFARI 11 MACOS HIGHSIERRA

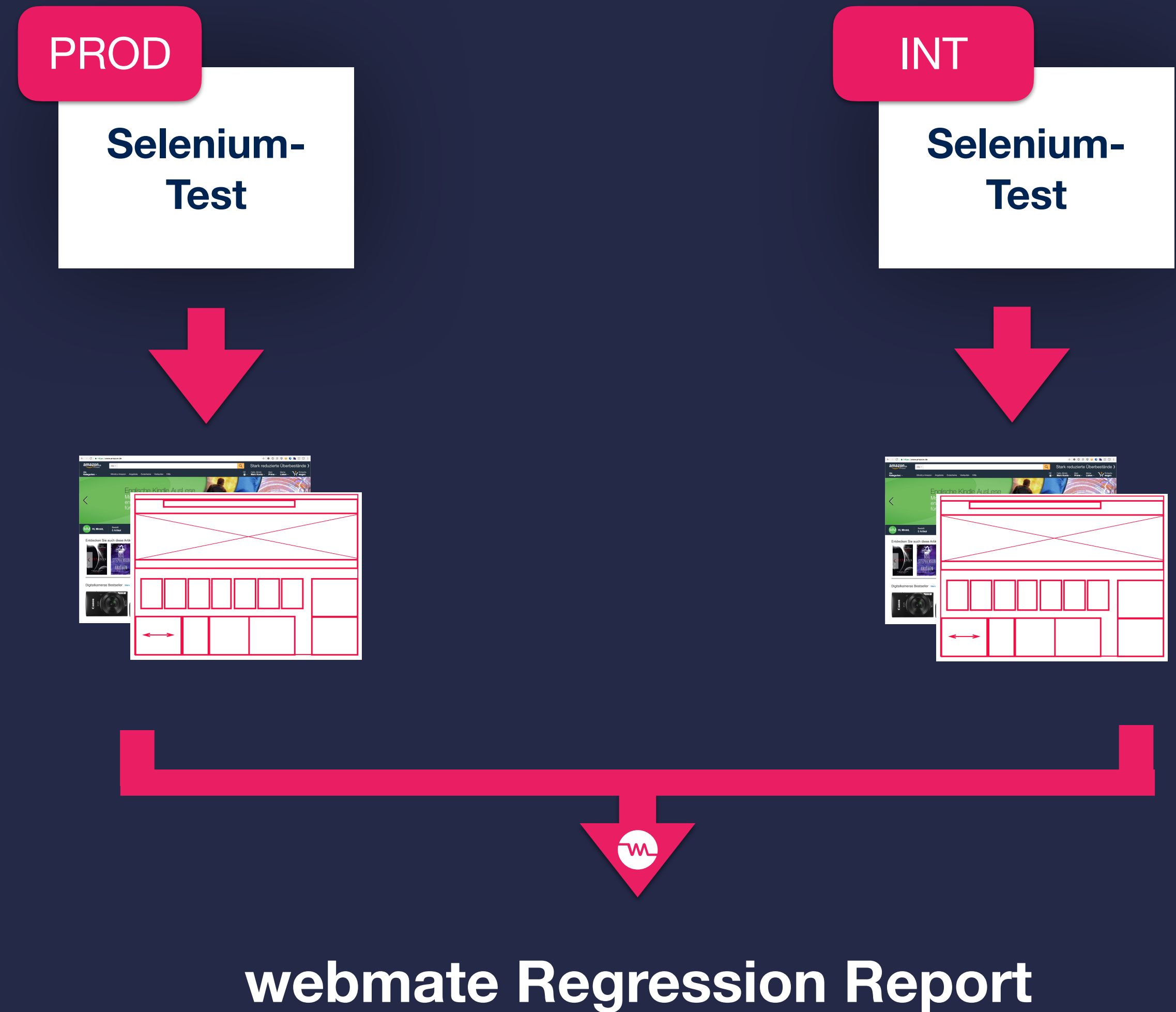
1 Difference

1 Additional Element:
//*[@id="cityNameField"]/a[1]/s...

Unique XPath: `//*[@id="cityNameField"]/a[1]/span[1]`
Difference Details: Could not find element in reference browser
Full XPath: `/html/body[1]/div[3]/div[1]/section[2]/div[1]/div[1]/ul[1]/li[4]/a[1]/span[1]`

Fully Automated Regression Checks

- ▶ Finds layout and content deviations between different test runs
- ▶ Same principle as with automated cross-browser tests
- ▶ Based on existing Selenium tests or URL lists



Fully Automated Regression Checks

webmate BASE PROJECT ADMINISTRATION HELP

Regression Test E... Regression LAST RUN 10/28/2019 Rerun test

SELENIUM 02/15/2019 0 States 10:25 SELENIUM 02/15/2019 0 States 10:37 DETAILS

1 landing page

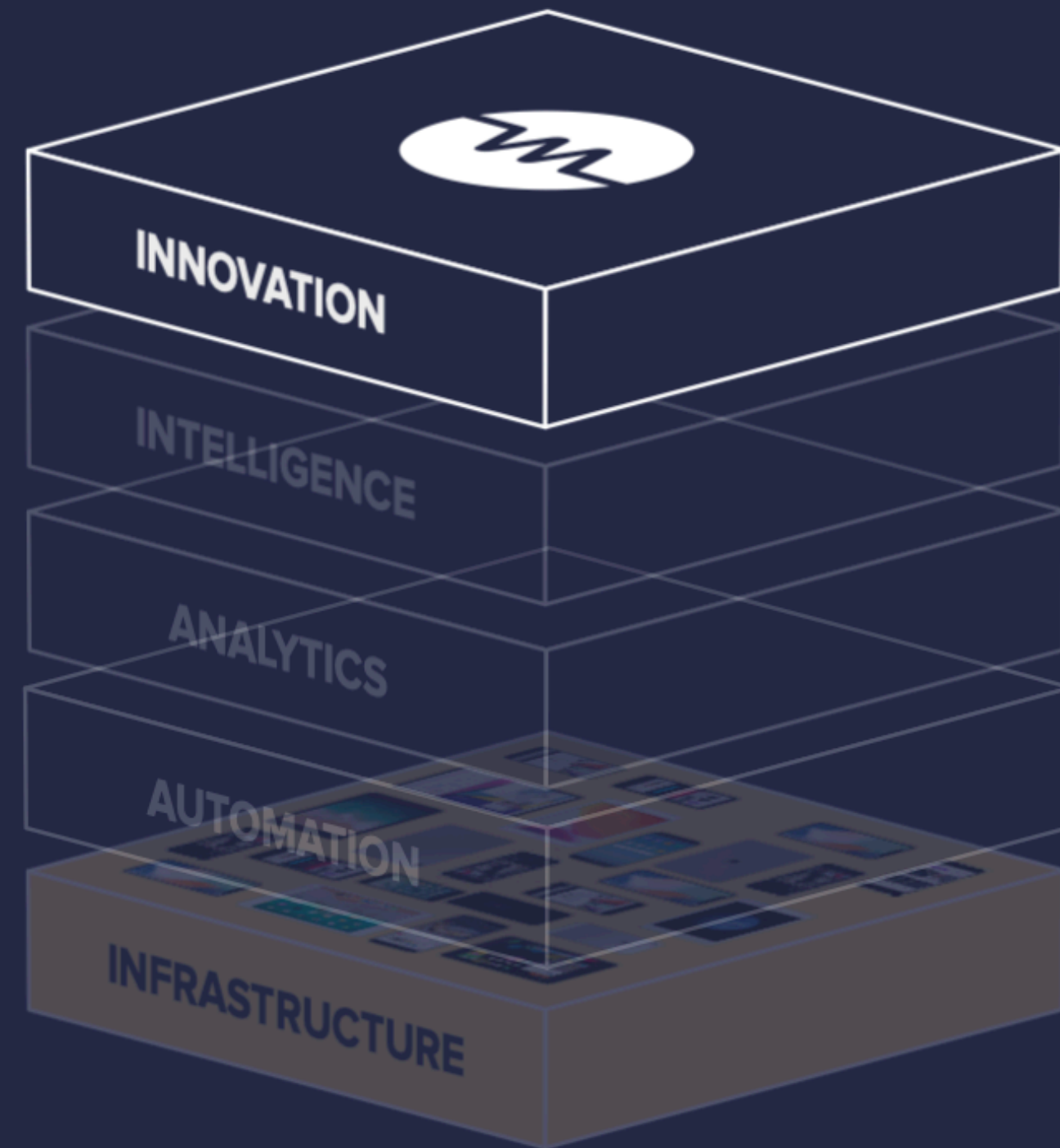
16 kfz-versicherung

28 anzeige kfz

Reference Browser: CHROME 66 WINDOWS 10 Selected Cross Browser: CHROME 66 WINDOWS 10

28 Differences

- 8 Additional Element:
//*[@id="fahrzeugSuche"]/form[...]
- 2 Incorrect Dimensions:
//*[@id="fahrzeugSuche"]/form[1]
- 10 Incorrect Position:
//*[@id="fahrzeugSuche"]/form[...]



TEST INNOVATION

Test Innovation

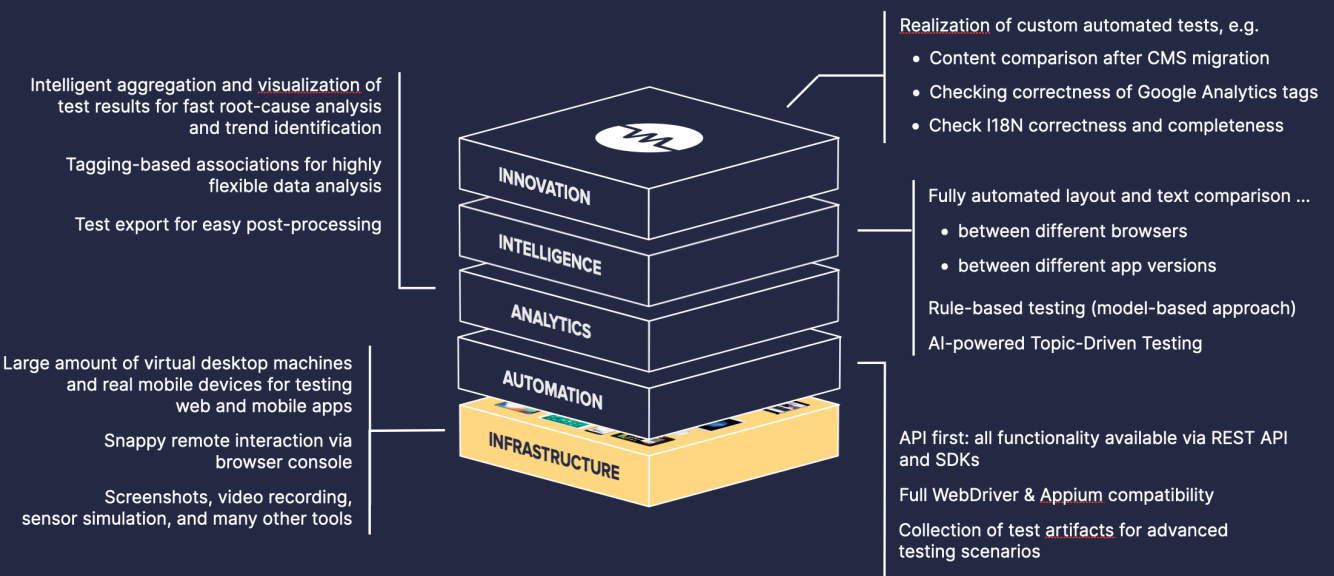
Use webmate for novel test automation scenarios

Examples

Are
Google Analytics Tags
correctly implemented?

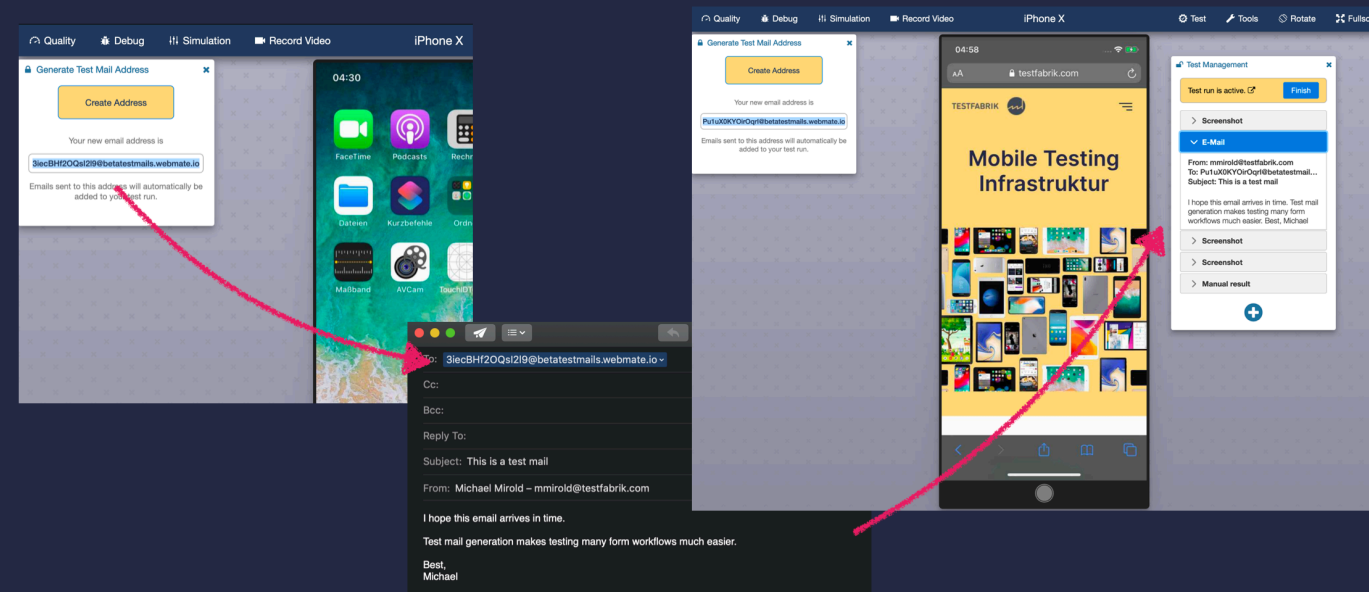
Is internationalization
correct on all pages?

Have all pages
correctly migrated
to a new CMS?

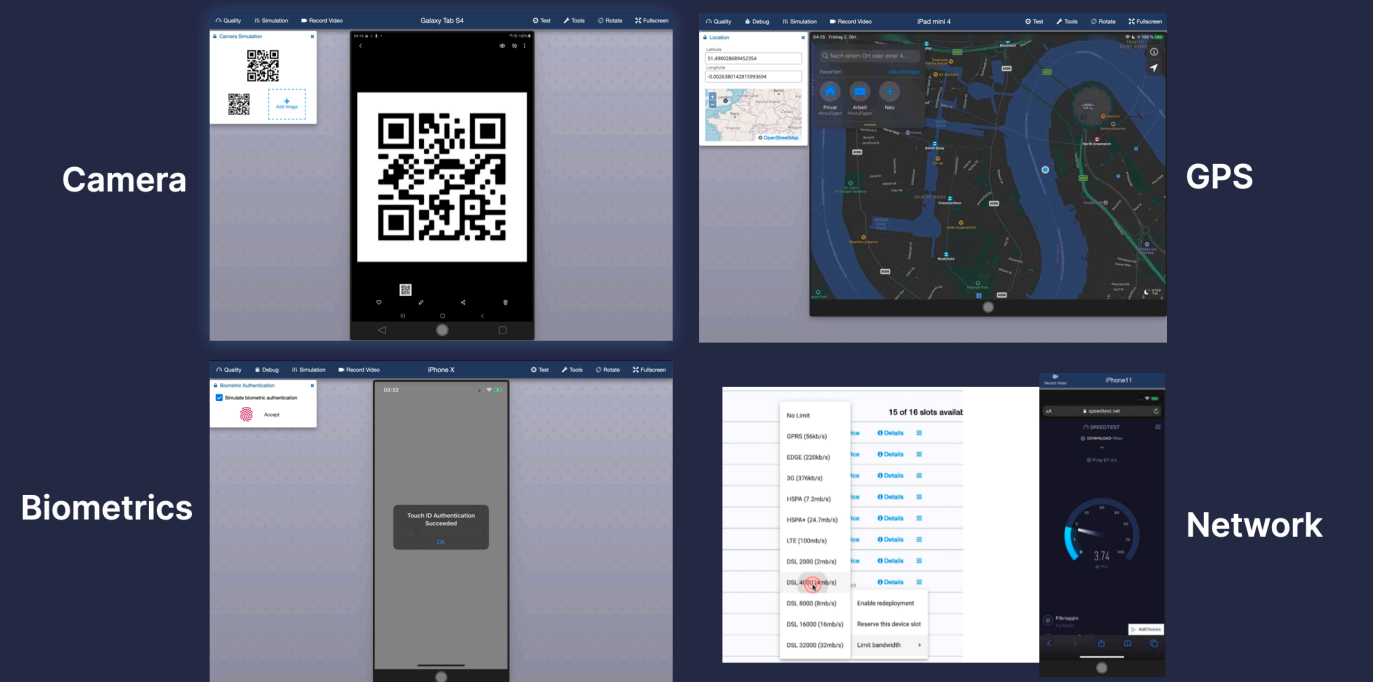


Test Mail Accounts

Simplify testing journeys where users must enter email addresses



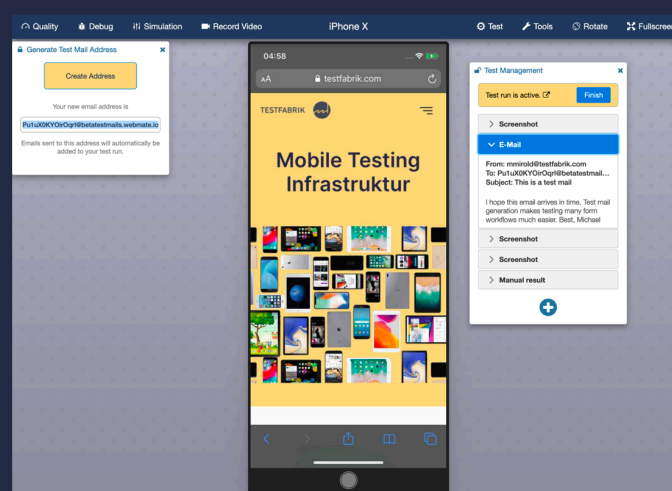
Mobile Hardware Simulation



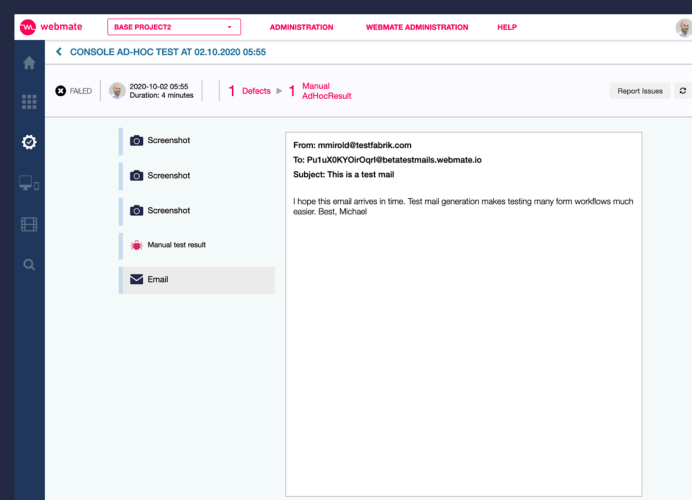
Thank you :-)

Documenting Manual Tests

Perform interactive test in console

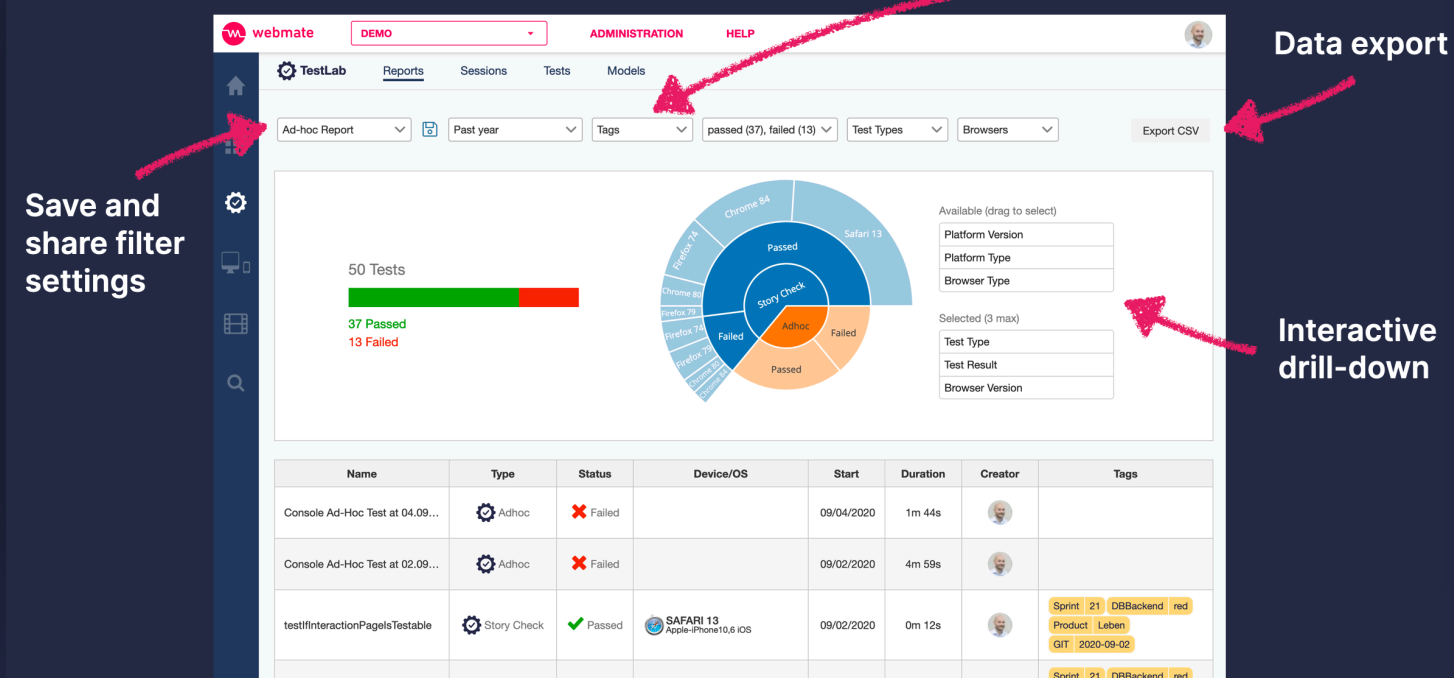


Access test result in reports or for issue export



Test Reports

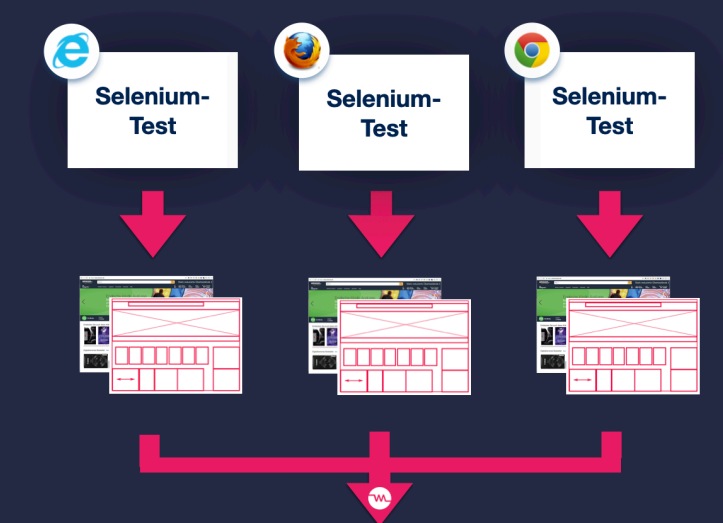
Tag-based filtering



Fully Automated Cross-browser Checks

- Finds layout and content deviations between browsers
- Based on existing Selenium tests or URL lists
- Interesting "states" are designated in WebDriver scripts

```
browserSession.createState({matchingId: "after_link"});
waitForElement(driver, By.id("bn")).click();
waitForElement(driver, By.id("ek")).click();
waitForElement(driver, By.id("rd")).click();
browserSession.createState({matchingId: "after_radio button"});
waitForElement(driver, By.id("mover")).click();
```



webmate cross-browser Report