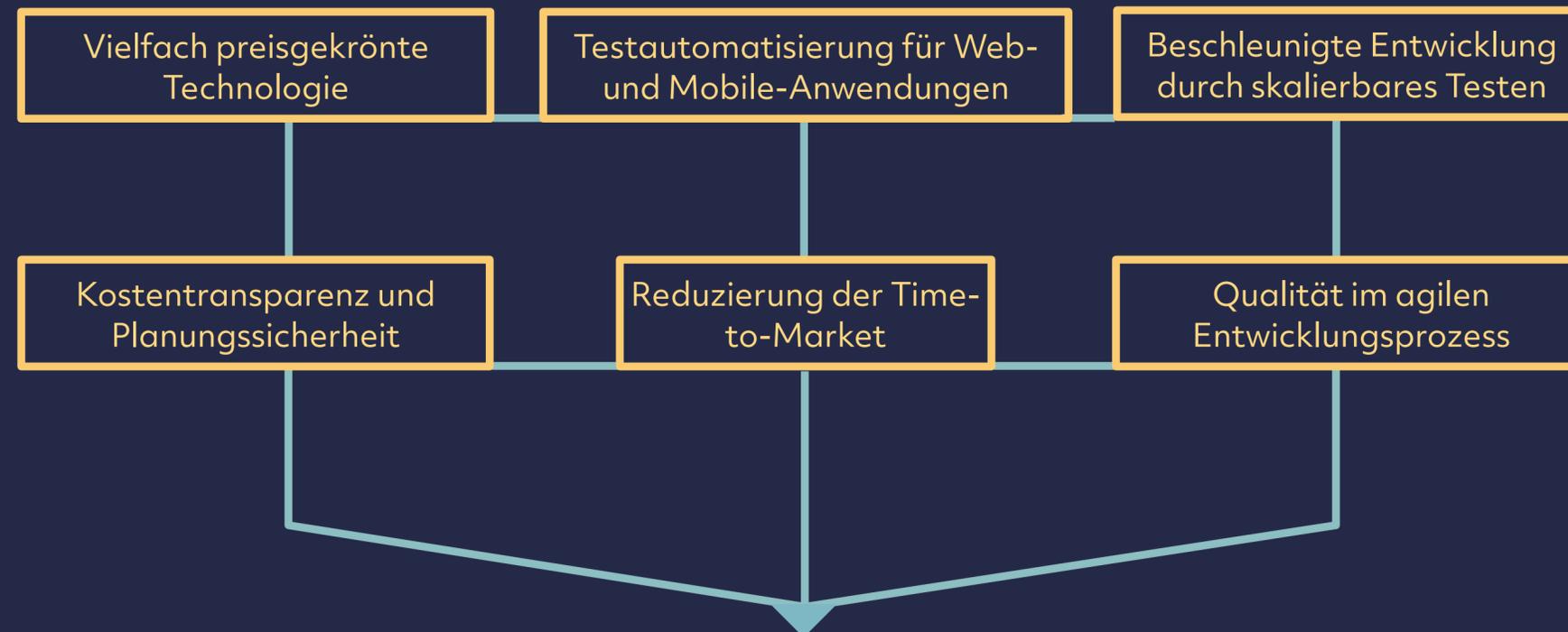




Feature-Übersicht

2022-02

by  testfabrik



webmate - Intelligente Testlösungen aus der Cloud

testfabrik

- ▶ Universitäre Ausgründung 2013
- ▶ Vielfach preisgekröntes Technologieunternehmen
- ▶ Fokus: Testautomatisierung für Web und Mobile Apps
- ▶ 24 Mitarbeiter in Saarbrücken
- ▶ Entwicklung der Plattform webmate



Die webmate Plattform

MANUELLES UND AUTOMATISIERTES TESTEN

Unterstützung klassischer Fachtests
und moderner CI/CD-Pipelines als
Basis agiler Entwicklung

TESTINFRASTRUKTUR AUS DER CLOUD UND ON-PREMISE

Auf Knopfdruck Desktop- und echte
Mobilgeräte für höchste Kosteneffizienz

ENTERPRISE INTEGRATION

Netzwerk- und Toolintegrationen
passgenau für Ihre Bedürfnisse.
Projektstruktur für große Teams

LOW CODE SOLUTIONS

Weniger Code, mehr Testabdeckung

TEST-ANALYTICS UND MANAGEMENT

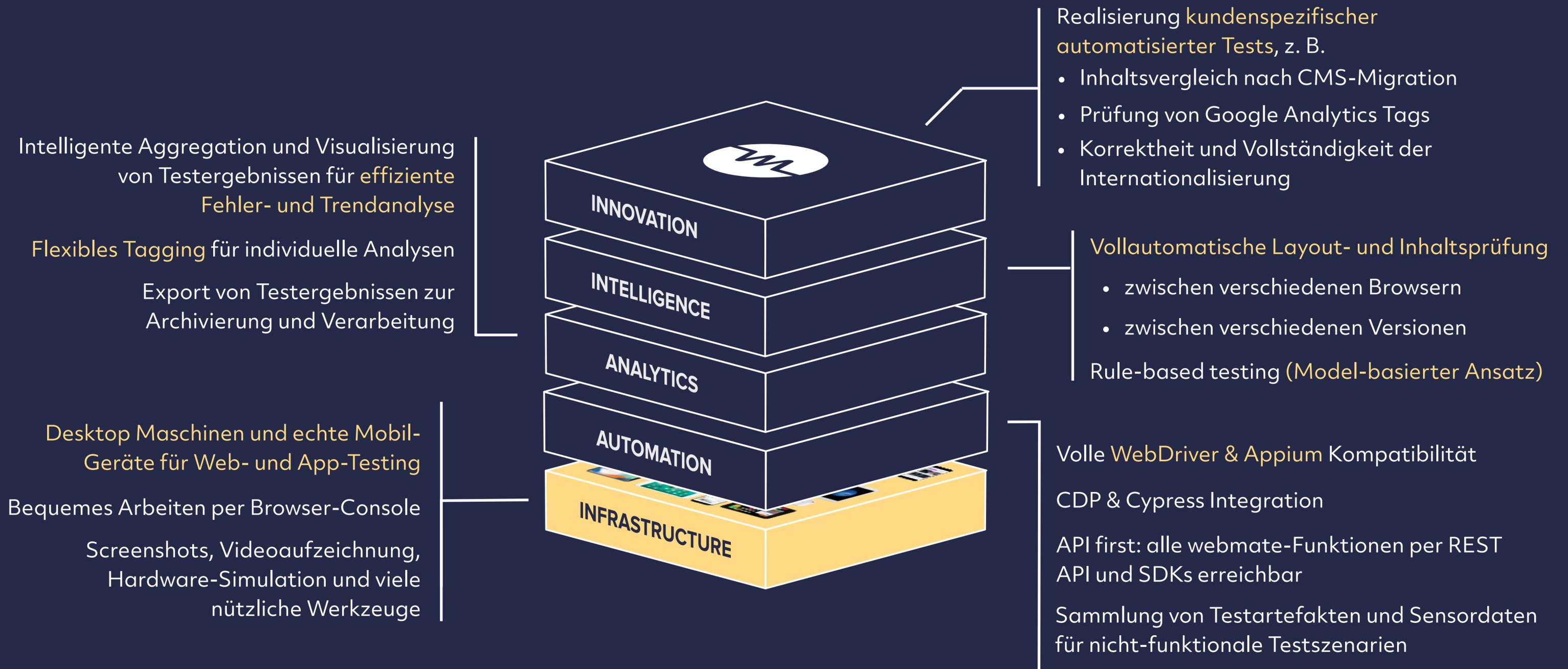
Detaillierte Analyse Ihrer Testergebnisse,
auftretenden Fehler und gelösten Issues

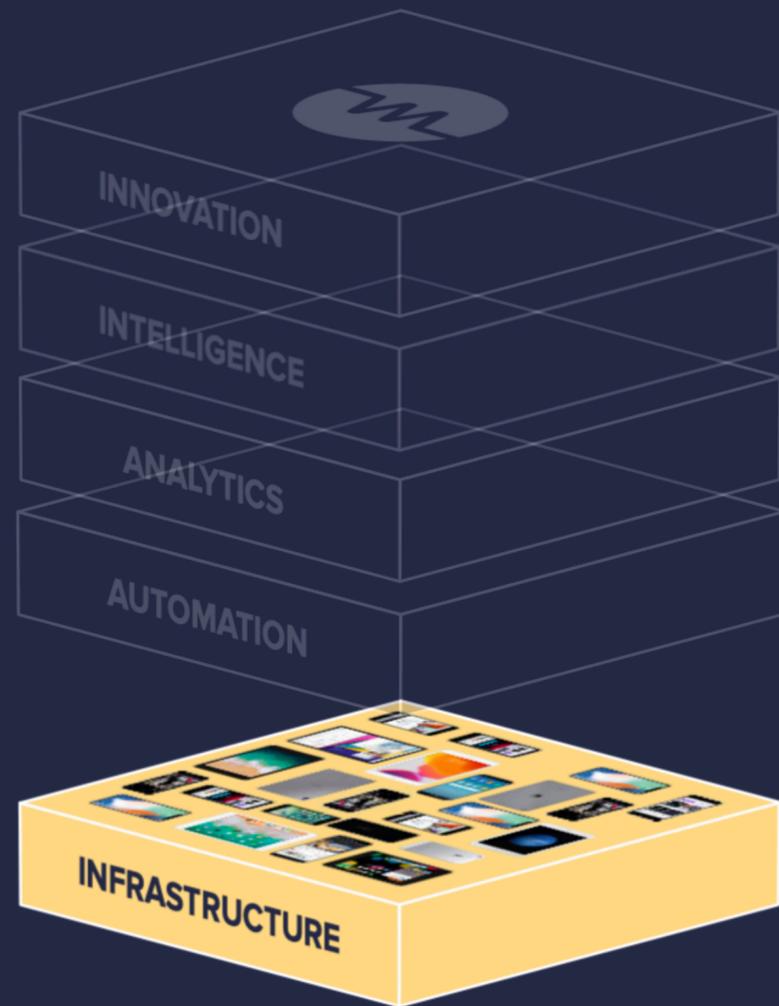
VOLLAUTOMATISCHE REGRESSIONSTESTS

Vergleich von Anwendungen gegen festgelegte
Soll-Eigenschaften oder eine Referenz-Version



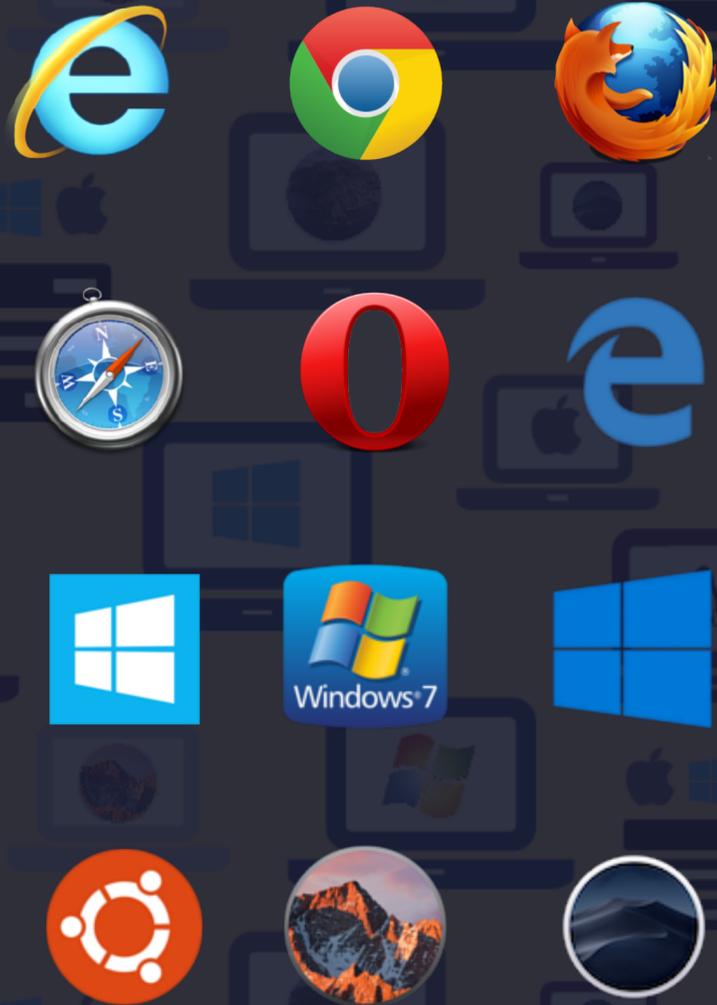
webmate Test-Automatisierung und -Infrastruktur





TEST- INFRASTRUKTUR

Desktop-Infrastruktur



- ▶ On-Demand **virtuelle und reale Maschinen**
- ▶ Windows, MacOS und Linux
- ▶ Chrome, Firefox, Opera, Safari Browser
- ▶ Aktuelle und alte Versionen (inklusive Beta-Releases)
- ▶ Hosting in **deutschem Rechenzentrum**
- ▶ Kundenspezifische Images (z. B. mit speziellen Zertifikaten, Anwendungen oder spezieller Hardware)
- ▶ Voll-integriert in die Plattform:
 - Automatisierungs-APIs (WebDriver / Selenium, CDP)
 - Netzwerk (VPN-Integration, Bandbreiten-Simulation, DNS)

Device Übersicht

Verwalten aller Geräte (Mobil + Desktop) eines Projekts in einer zentralen Übersicht

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	Menu
	MACOS MONTEREY created Today at 10:58 AM	Slot 5 no daily redeployment	running is available to jobs	Access	Details	Delete	Menu

Device Slots in Project 4 of 6 slots available

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

"Device Slots" repräsentieren Infrastruktur-Ressourcen

Devices in Project 2 online / 0 queued

	MACOS BIGSUR created 02/09/2021	Slot no daily re-deployment	Access	Details	Delete	Menu
	WINDOWS 10 created 02/21/2021	Slot no daily re-deployment	Access	Details	Delete	Menu

Nahtloser Zugriff
auf Mobil- und Desktopgeräte

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 können zwischen Projekten geteilt werden

Device Slot Administration

- ▶ Zentrale Verwaltung der Infrastruktur einer Organisation
- ▶ Zuweisung (exklusiv oder geteilt) an Projekte
- ▶ Verwaltung von OS-Updates

The screenshot displays the 'ADMINISTRATION' section of a web application, specifically the 'Slots' tab under 'Infrastructure'. The interface features a top navigation bar with 'PROJECT OVERVIEW', 'ADMINISTRATION', and 'DOCS'. Below this, there are tabs for 'Infrastructure', 'Slots', and 'Mobile Devices'. A search bar is located in the top right corner. The main content area is a table with 7 rows, each representing a device slot. Each row includes a slot icon, a slot number, a list of assigned projects (each with a project icon), and the current OS status. Slot 5 and Slot 7 have a 'CLEAR SLOT' button next to their OS information.

Slot	Assigned Projects	OS Status	Actions
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	CLEAR SLOT
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	CLEAR SLOT

Devices

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

Für alle Geräte (Desktop + Mobile) können Netzwerkbedingungen angepasst werden.

Reservations

2 online / 0 queued

of 7 slots available

- No Limit
- 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)

Enable redeployment

Reserve this device slot

Limit bandwidth

Access

Access

Deploy

Deploy

mac- in this

Deploy

Beta in this

win-7 Another

Deploy device

Details



Device Deployment

- ▶ Standard OS Templates für Windows und Mac (weitere auf Anfrage)
- ▶ Sprachspezifische Templates
- ▶ **Viele Browser Versionen**
- ▶ **Individuelle Templates** können bereitgestellt werden
- ▶ Geräte stehen binnen Sekunden zur Verfügung

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

Steuern Sie Desktop- und Mobilgeräte aus dem Browser heraus.

The screenshot shows a browser window with a Windows 10 desktop environment. The browser's address bar shows the URL <https://app.webmate.io/console/>. The desktop environment includes a taskbar with buttons for 'Keyboard', 'Characters', and 'Clipboard', and a 'Browsers' folder containing icons for Chrome, Edge, Firefox, Internet Explorer, and Microsoft Edge. The browser window displays a blog post titled 'Manuelles Testen mit webmate' with a video player and a list of 'Letzte Posts'.

Der perfekte Tester-Arbeitsplatz

Navigation

Letzte Posts

- Manuelles Testen mit webmate**
10. Januar 2022
- Testinfrastruktur: Mieten oder Betreiben?**
2. November 2021
- Making of: Neue Devices für webmate**
3. August 2021

Manuelles Testen mit webmate

10. Januar 2022 Serjoscha Ziegler webmate

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 Testszenarien oder zur Erteilung der Abnahme durch die Fachabteilung. Manuelle Tests ergänzen die Automation in vielerlei Hinsicht und werden auch zukünftig nicht gänzlich aus dem Testalltag verschwinden.

CATEGORIES

- webmate (2)
- tech (6)
- company (5)
- casestudy (3)

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 Infrastruktur

- ▶ Mobile Device Farm mit echten Geräten
- ▶ Shared Cloud (große Gerätevielfalt)
- ▶ Private Cloud (volle Kontrolle über das System)
- ▶ Hosting im **deutschen Rechenzentrum**
- ▶ Simulationen (GPS, Kamera, Biometrie, Netzwerk)
- ▶ Vollständige Integration in die Plattform
- ▶ App und Web-Debugging mit Xcode (iOS) and ADB / Android Studio
- ▶ On-Premise-Hosting möglich

Mobile Device Deployment View

W

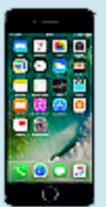
BASE PROJECT

ADMINISTRATION

DOCS

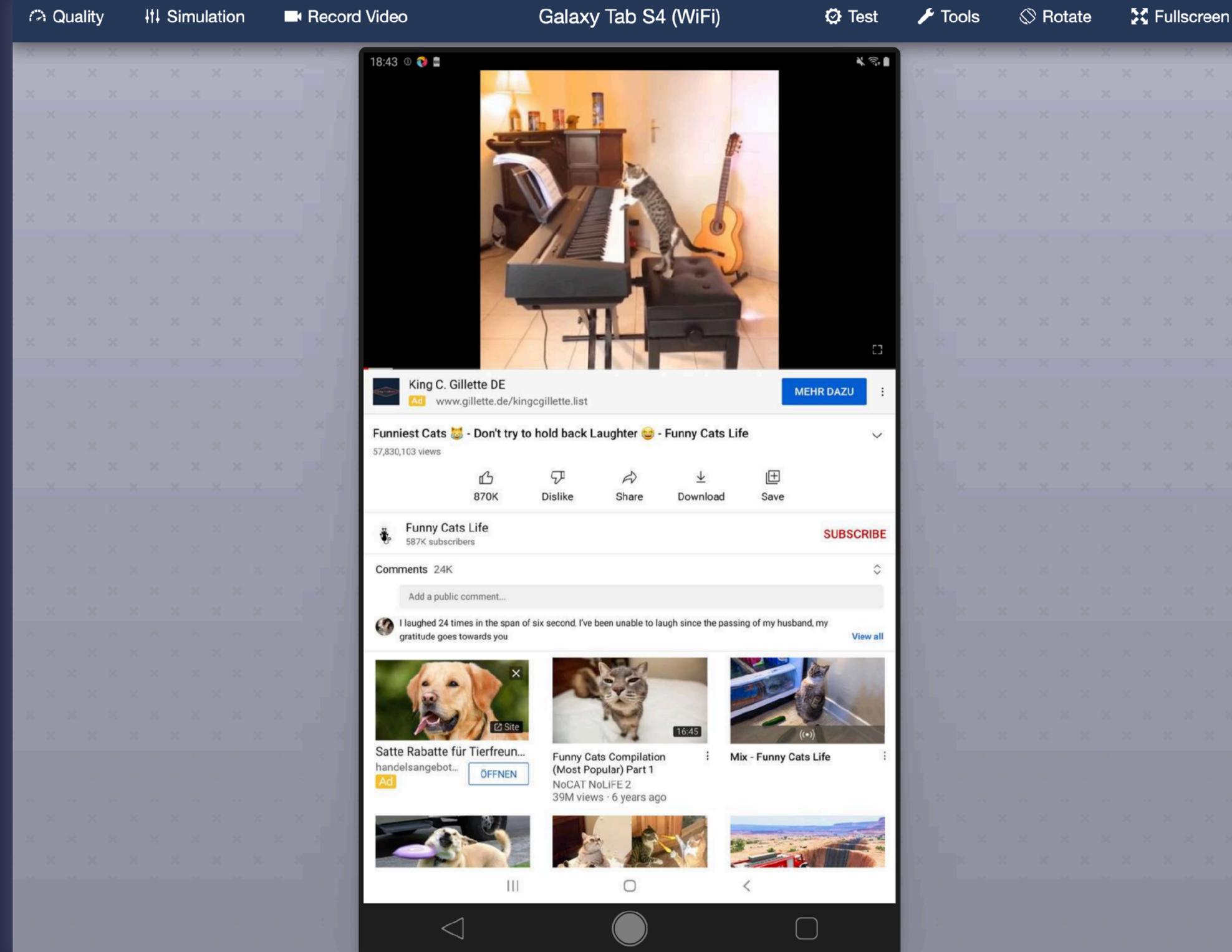
Filter

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>

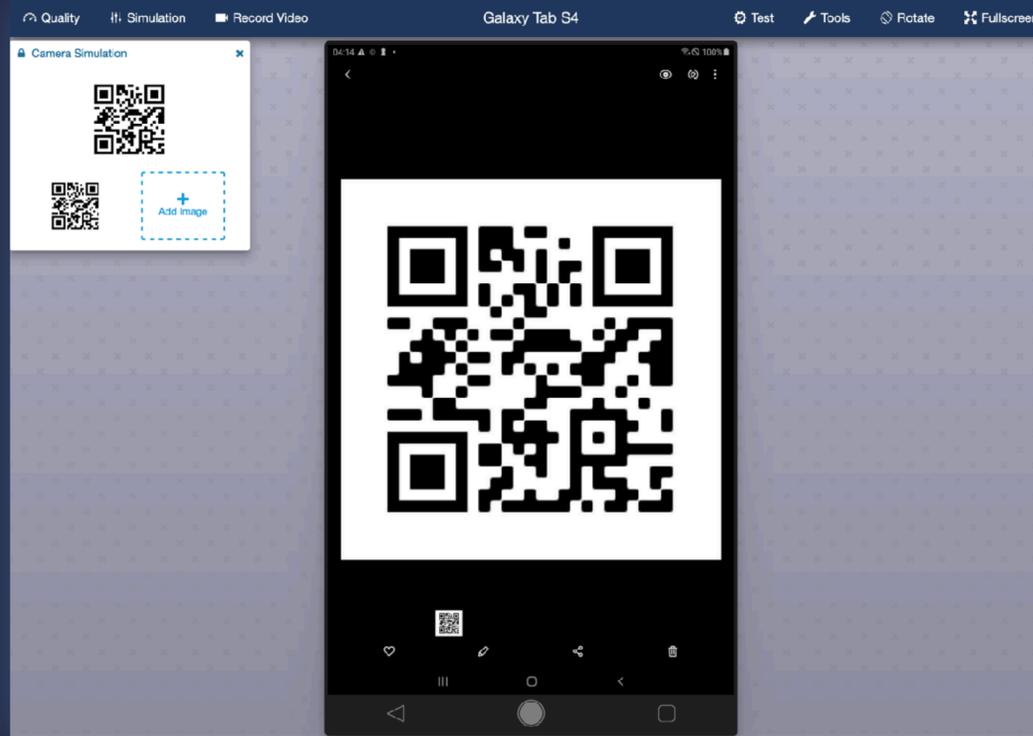
Mobile Device Console

- ▶ Fernsteuerung der Geräte im Browser
- ▶ Simulation von Gesten
- ▶ Integration des Test-Management
- ▶ Videoaufzeichnung

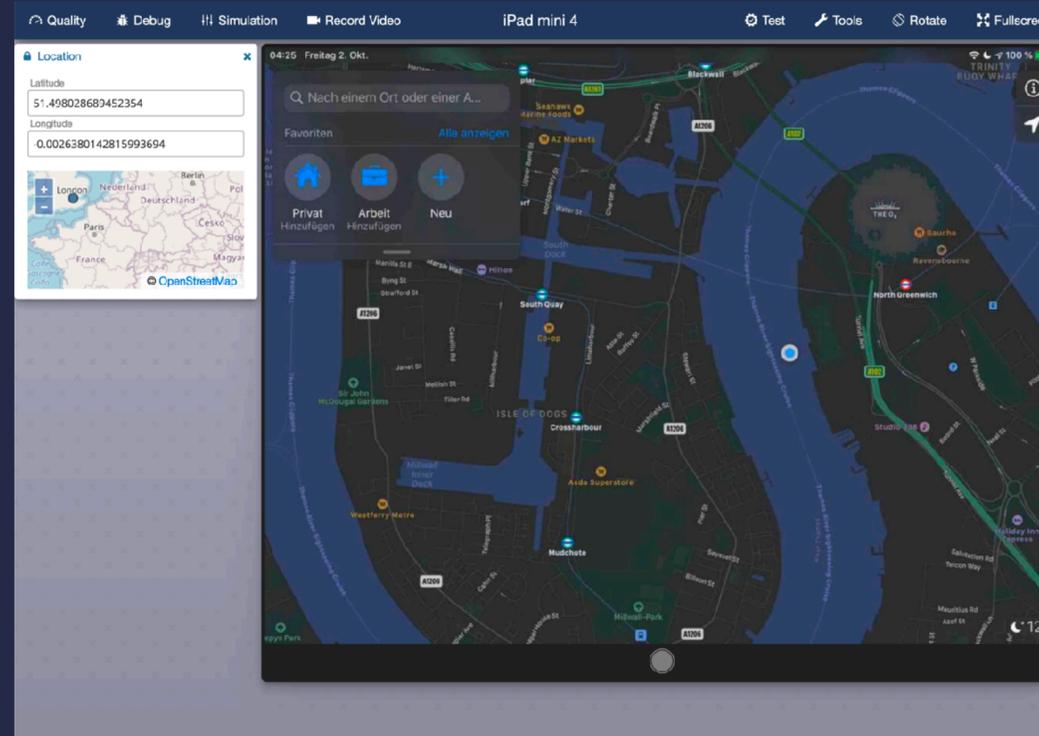


Mobile Hardware Simulation

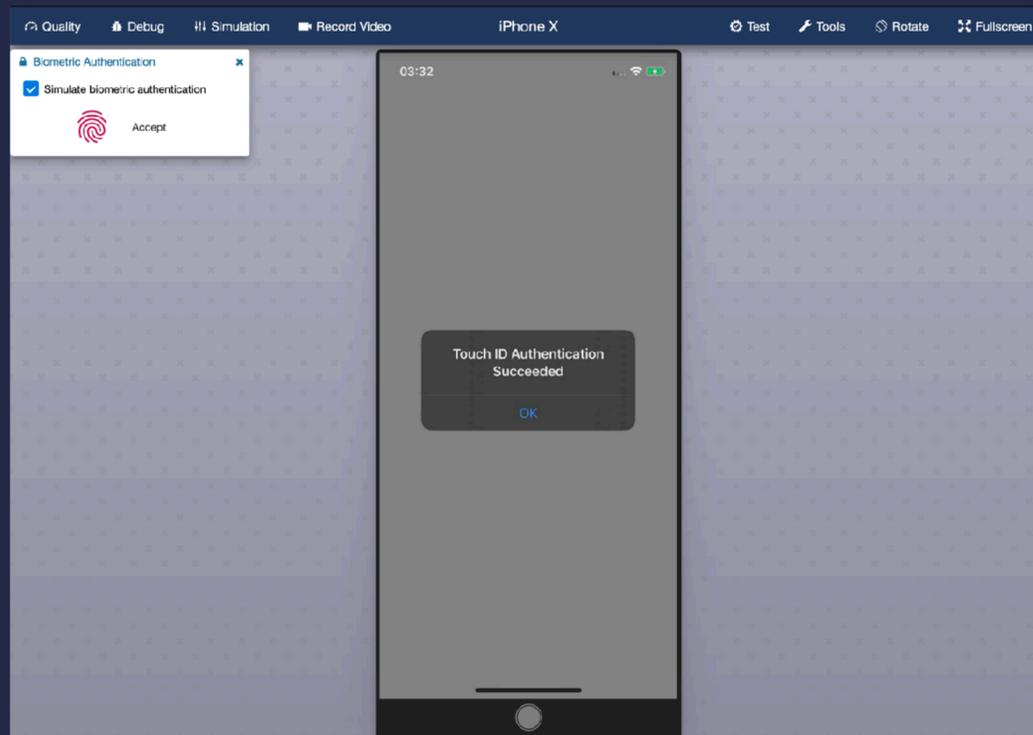
Kamera



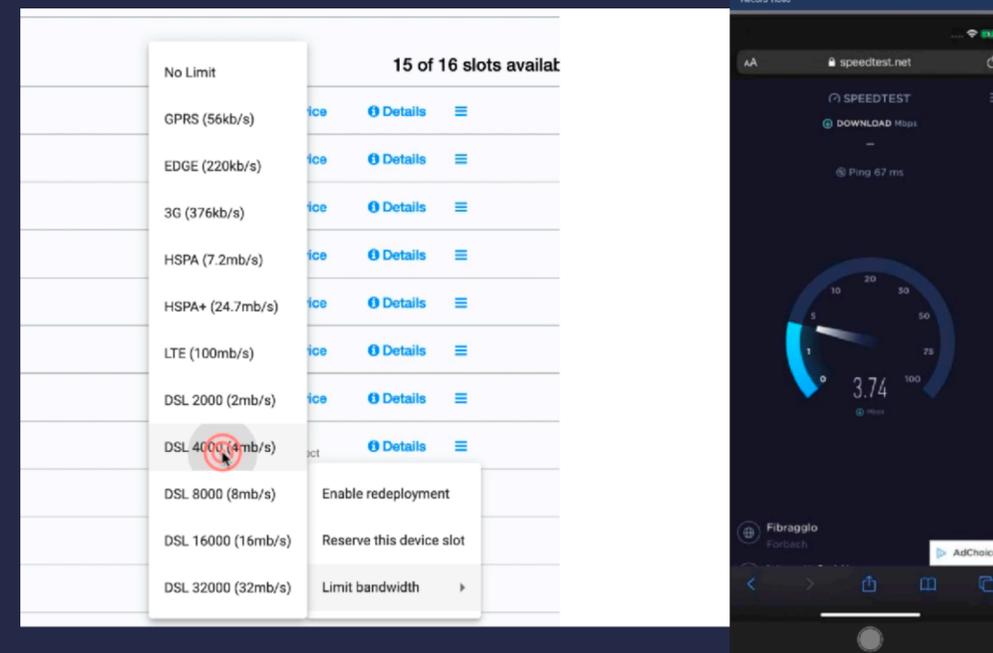
GPS



Biometrie



Netzwerk



Mobile-App Verwaltung

Automatisches Signieren und Instrumentieren der Apps

Synchronisation mit MS AppCenter oder manueller Upload (IPA/APK)

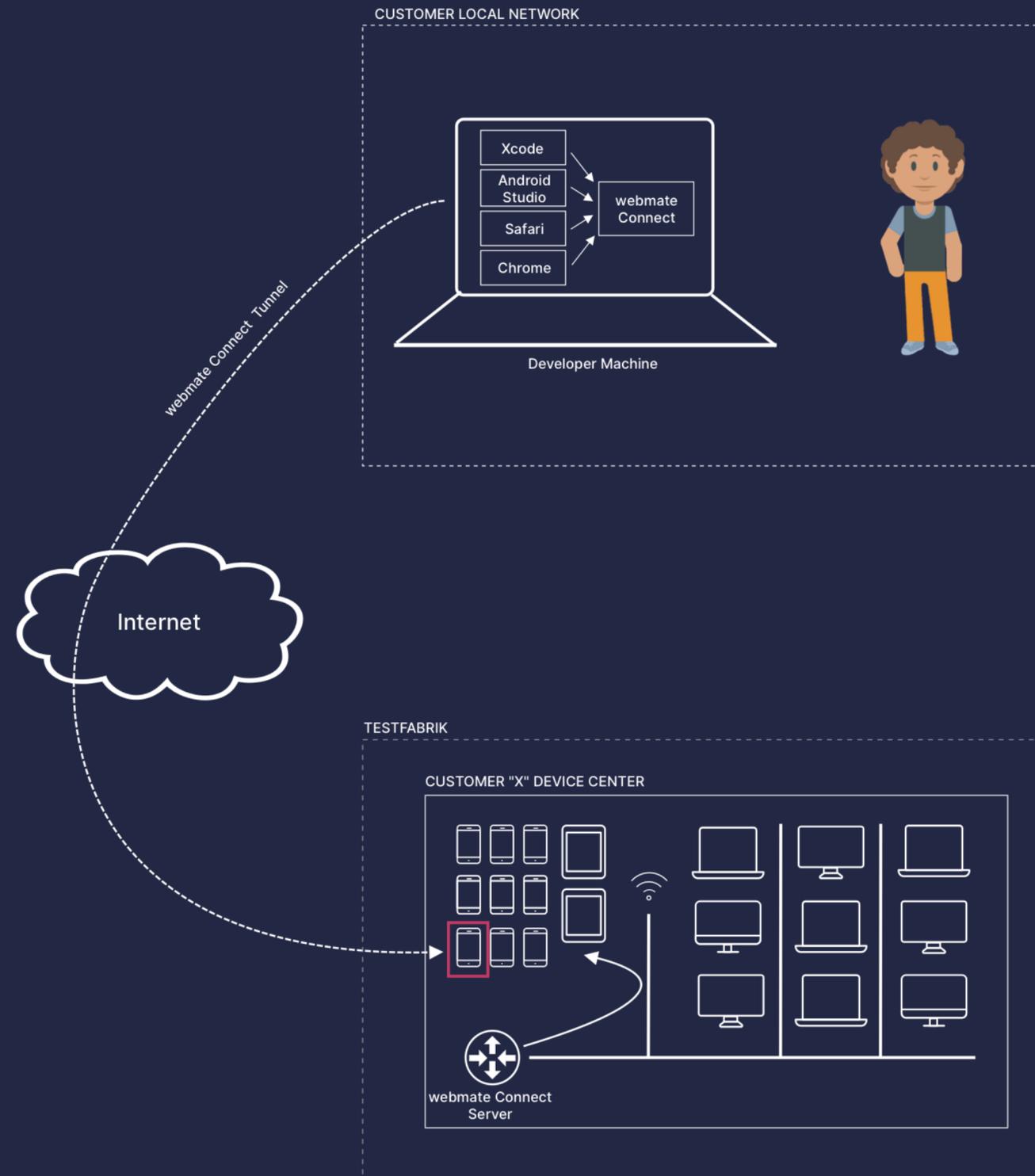
The screenshot displays the Microsoft AppCenter web interface. At the top, there's a navigation bar with 'WEBMATE PRESENTATION', 'ADMINISTRATION', and 'DOCS'. The main heading is 'Apps & Packages'. On the left, a sidebar lists various app packages, with 'AC Sample App' selected. The main content area shows details for 'AC Sample App', including its Package ID, Platform (Android), Package / Bundle Id, and App Version (1). Below this, a 'PACKAGE SOURCE' table shows the latest build from Microsoft AppCenter. At the bottom, 'PACKAGE VARIANTS' are listed, including the original and instrumented APK files.

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

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

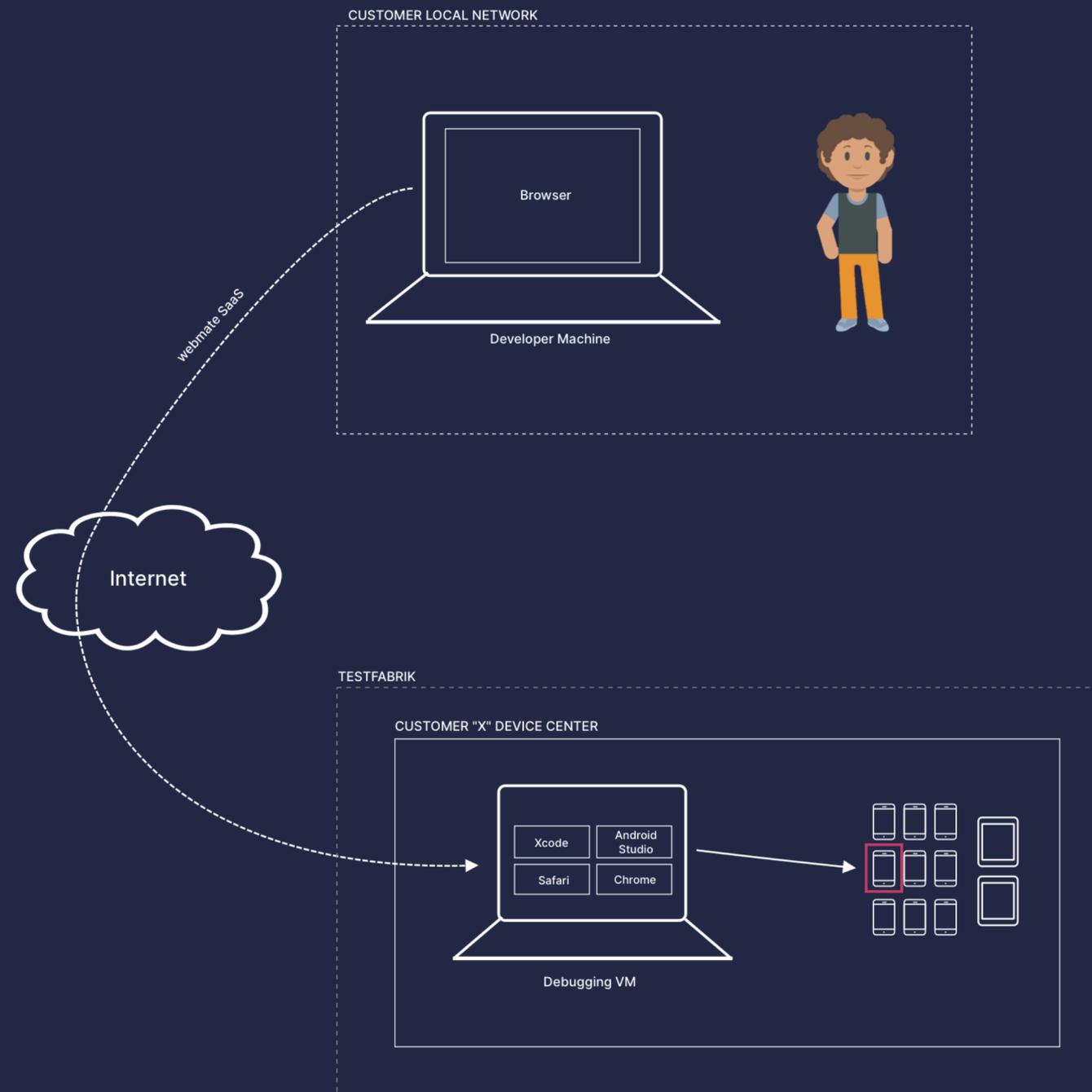
Mobile Debugging

- ▶ Nutzung mobiler Geräte in webmate als wären sie **lokal verbunden**
- ▶ Mobile Debugging mit
 - Xcode, Safari, Console libimobiledevice
 - Android Studio, Chrome, ADB



Mobile Debugging with Debugging VM

- ▶ Mobile Debugging aus einer virtuellen webmate-Maschine (MacOS) heraus
- ▶ Keine Anforderungen an lokale Hardware
- ▶ Debugging-Werkzeuge vorinstalliert, z.B. Xcode

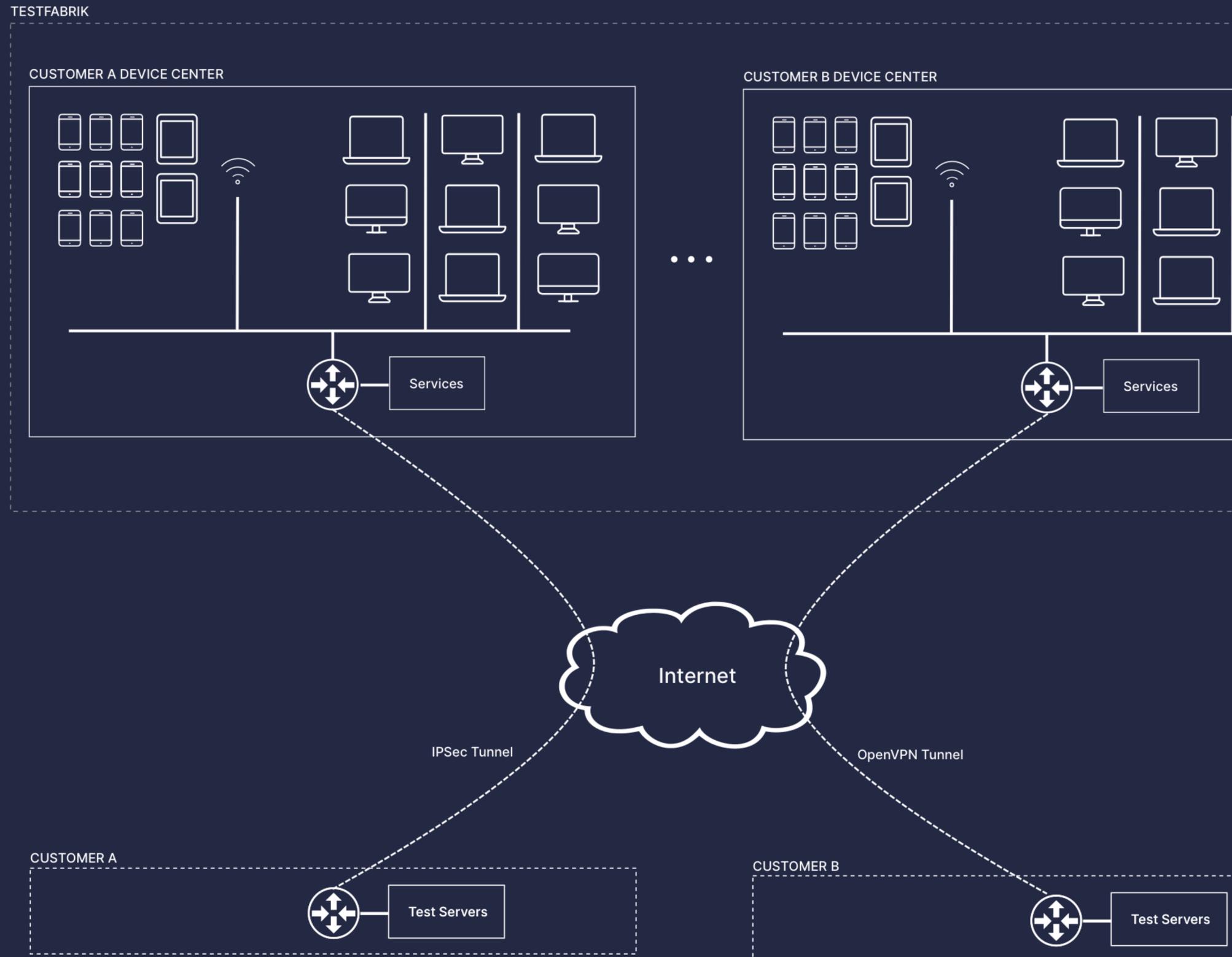




ENTERPRISE INTEGRATION

VPN-Integration

- ▶ Test-Ressourcen eines Kunden isoliert in "Kunden Device Center"
- ▶ Device Center per VPN mit Kundennetzwerk verbunden
- ▶ VPN-Technologien:
 - IPSec
 - OpenVPN
 - WireGuard



Projekte, Rollen und Rechte

- ▶ Strukturierung größerer Organisationen durch Projekte
- ▶ Rechtevergabe auf Projektbasis
- ▶ Flexible RBAC Rollenverwaltung
- ▶ Trennung von Organisations- und Projektadministratoren
- ▶ Volle Integration in SSO

The image displays three overlapping screenshots of a web application interface. The top screenshot, titled "Project Overview", shows a dashboard with three project cards: "Base Project" (webmate - Default Project), "Relaunch Website" (Website relaunch project 2021), and "Customer Mobile App". The middle screenshot, titled "Manage User Roles", shows a user profile for "Andreas Rau" with a list of roles assigned to him, including "Base Project" (Default User Role) and "QS Tage". The bottom screenshot, titled "Manage Roles", shows a form for creating a new role, with fields for "ROLE NAME" (New Role) and "DESCRIPTION", and a list of permissions with toggle switches: "Manage Infrastructure" (checked), "Access Infrastructure" (checked), "Manage Tests and Jobs" (checked), and "Execute Tests and Jobs" (unchecked).

Single-Sign-On

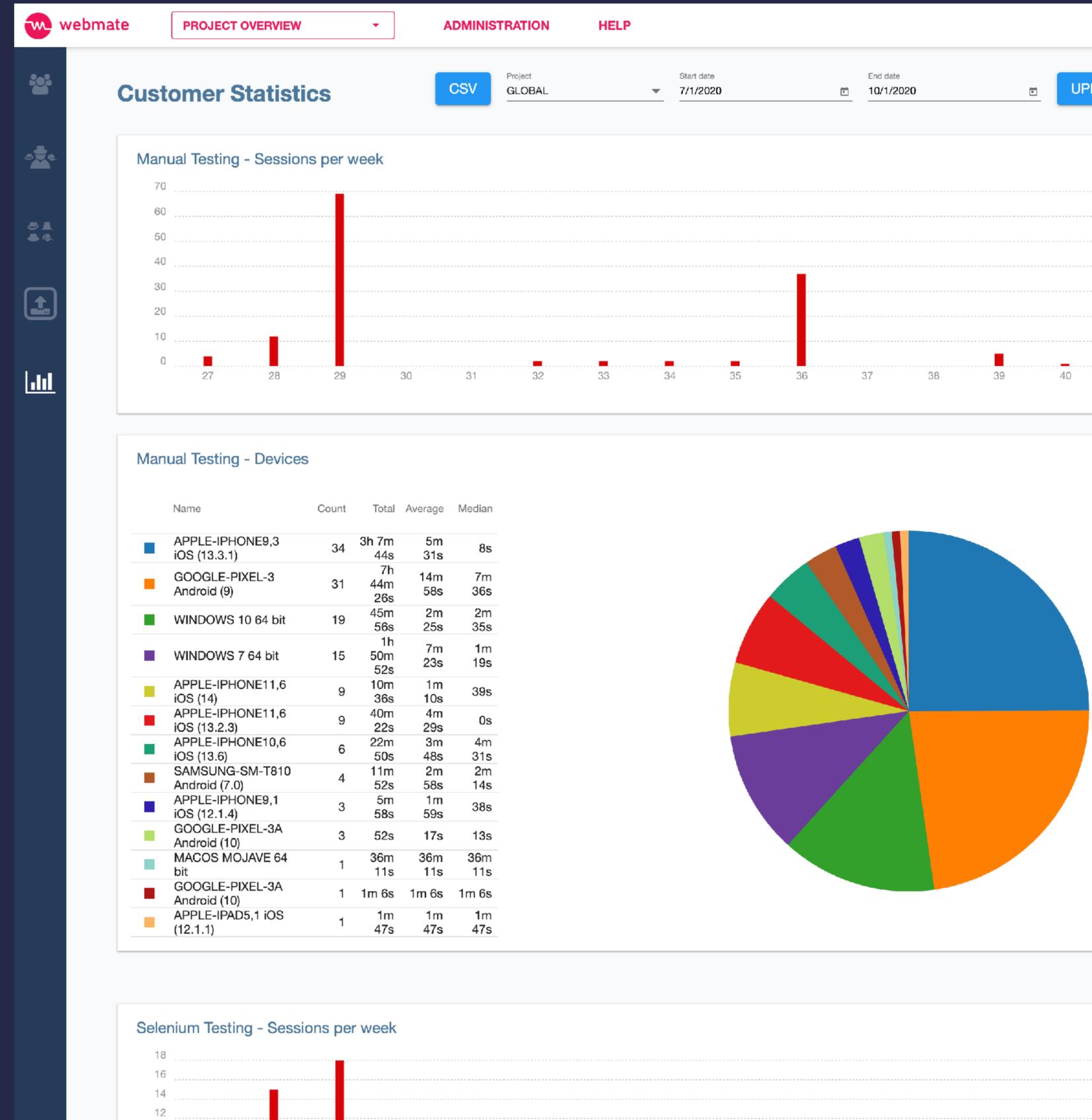
Nutzung externer Authentisierungssysteme / Identity Provider zur Vereinfachung des Usermanagement

The screenshot displays the 'Single Sign On (SSO)' configuration page in the webmate administration interface. The page is organized into several sections:

- Navigation:** The top navigation bar includes the 'webmate' logo, a 'PROJECT OVERVIEW' dropdown menu, and links for 'ADMINISTRATION' and 'HELP'. A vertical sidebar on the left contains icons for various system functions.
- Section Header:** The main heading is 'Single Sign On (SSO)'.
- Basic Settings:** This section explains that SSO allows for user management via external systems like Active Directory or Keycloak. It features an 'ENABLE SSO' toggle switch that is currently turned on.
- Identity Provider Type:** Below the toggle, there are two buttons for selecting the provider type: 'OIDC' (which is selected) and 'SAML'.
- OpenID Connect Configuration:** This section provides instructions to request configuration information from the IdP administrator. It includes a 'CONFIGURATION TYPE' selector with 'Manual' (selected) and 'Auto Discovery' options.
- Endpoint URLs:** Two input fields are shown for the 'AUTHORIZATION ENDPOINT URL' and 'TOKEN ENDPOINT URL'. Both fields contain the URL 'https://keycloak.testfabrik.com/' followed by a redacted portion.

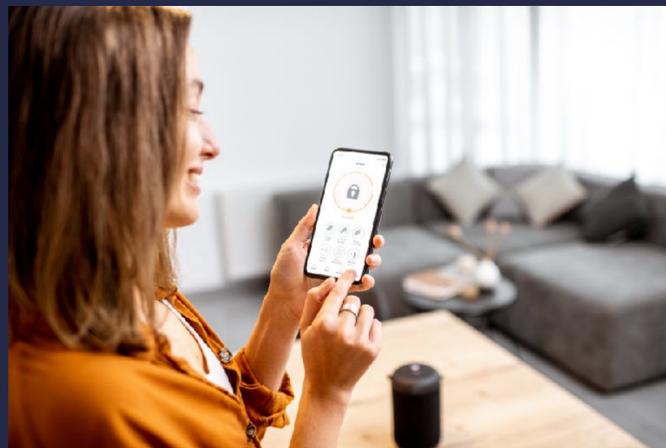
Nutzungsstatistiken

- ▶ Analyse der Gerätenutzung bei manuellen und automatisierten Aktivitäten
- ▶ Flexible Filterung
- ▶ CSV export for offline-processing



webmate Mobile Access

Ermöglicht den Zugriff von lokalen Mobilgeräten (z.B. im Home-Office) auf Testumgebungen



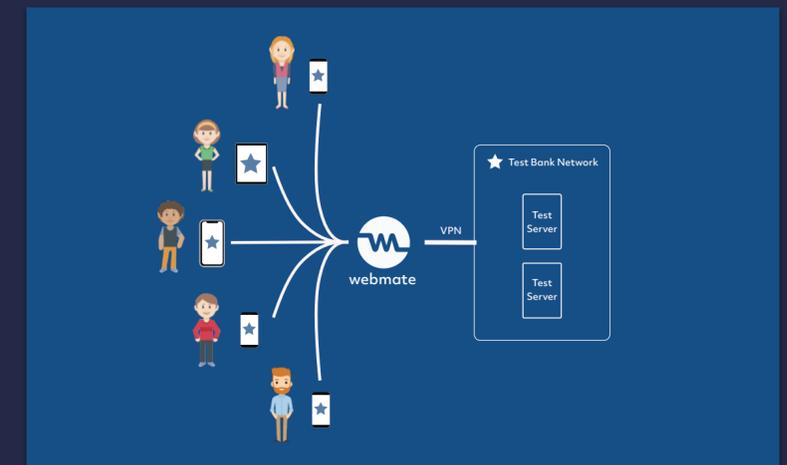
1

Use local mobile device



2

Activate device in webmate

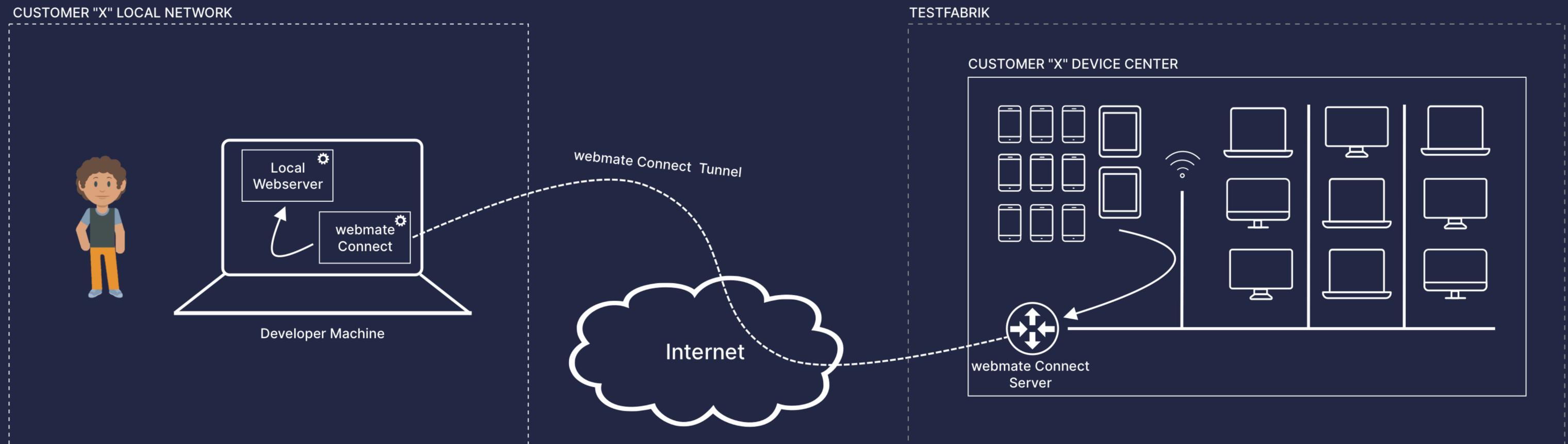


3

Access test environment with device

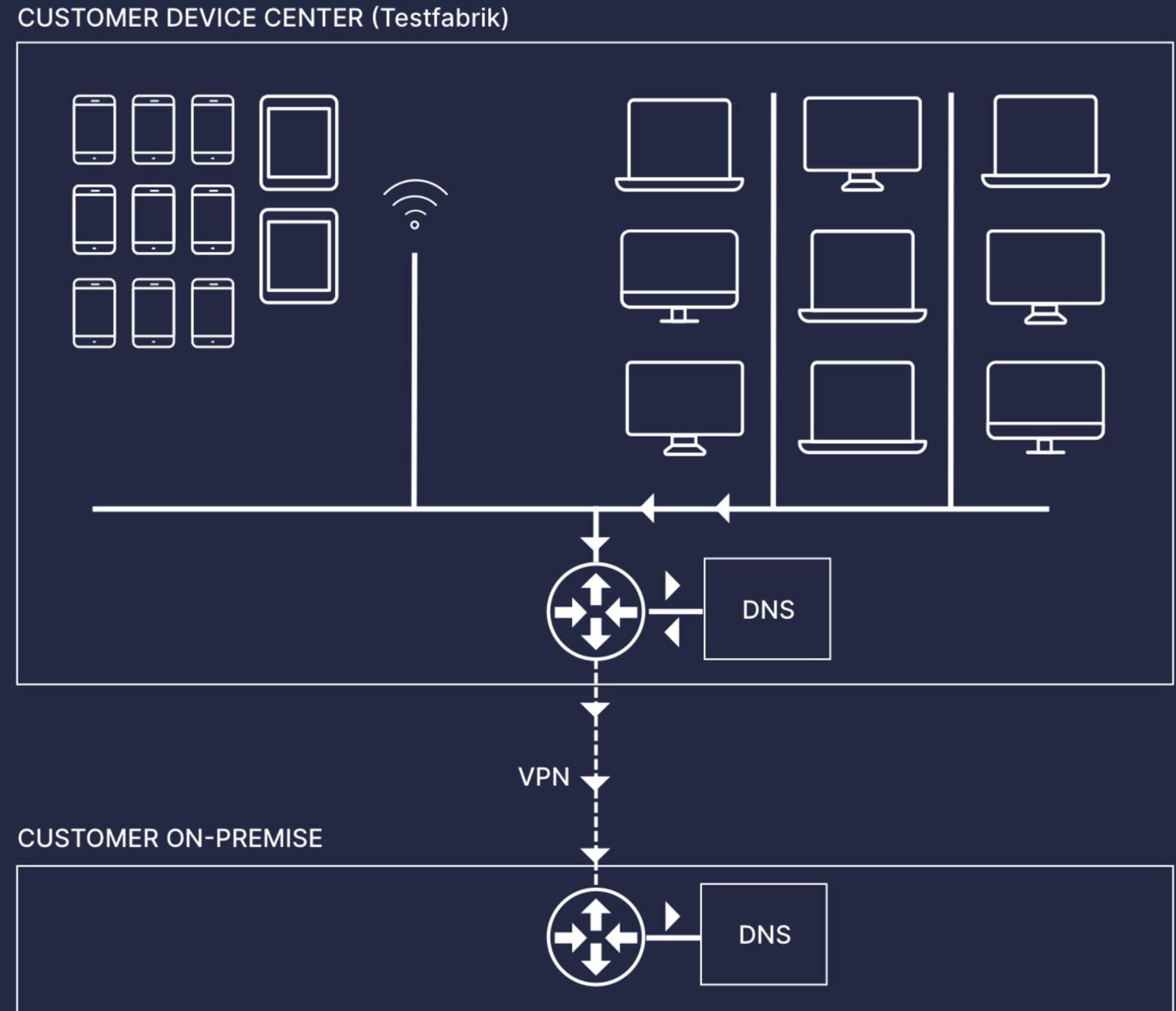
webmate Connect

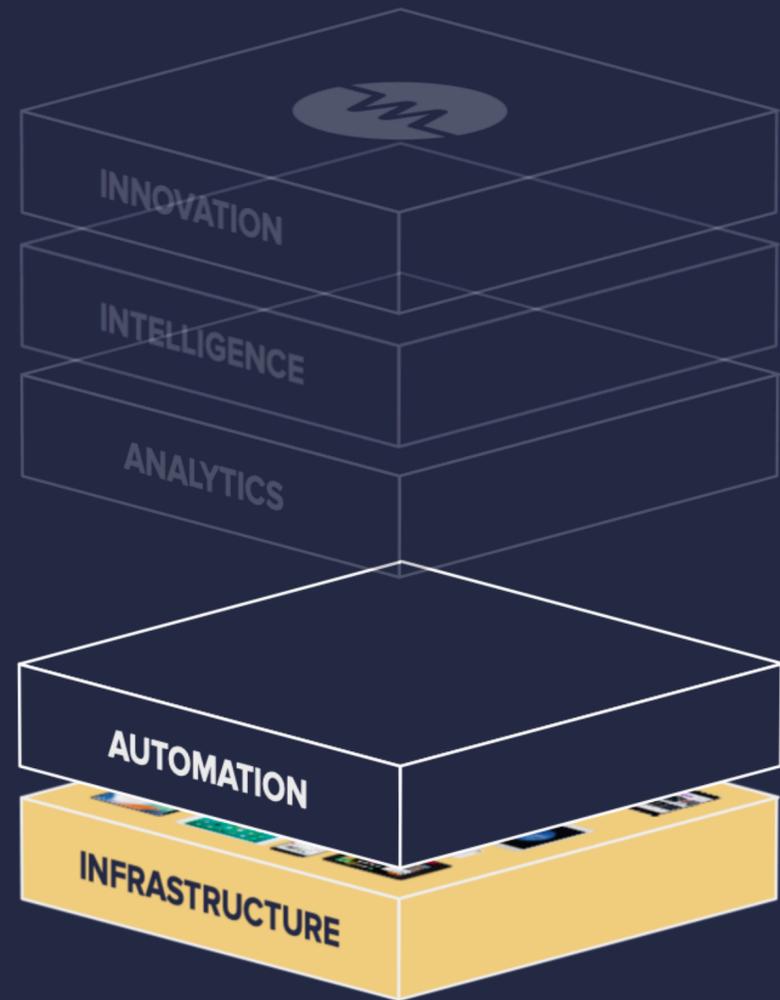
- ▶ Erlaubt den Zugriff lokaler Ressourcen durch die webmate Testinfrastruktur
- ▶ Kann z.B. von Entwicklern verwendet werden, um lokal laufende Webanwendungen oder APIs zu testen.
- ▶ Auch in CI/CD Setups (z.B. für Protractor / Karma basierte Tests) nützlich, wenn kein VPN verfügbar ist



DNS Integration

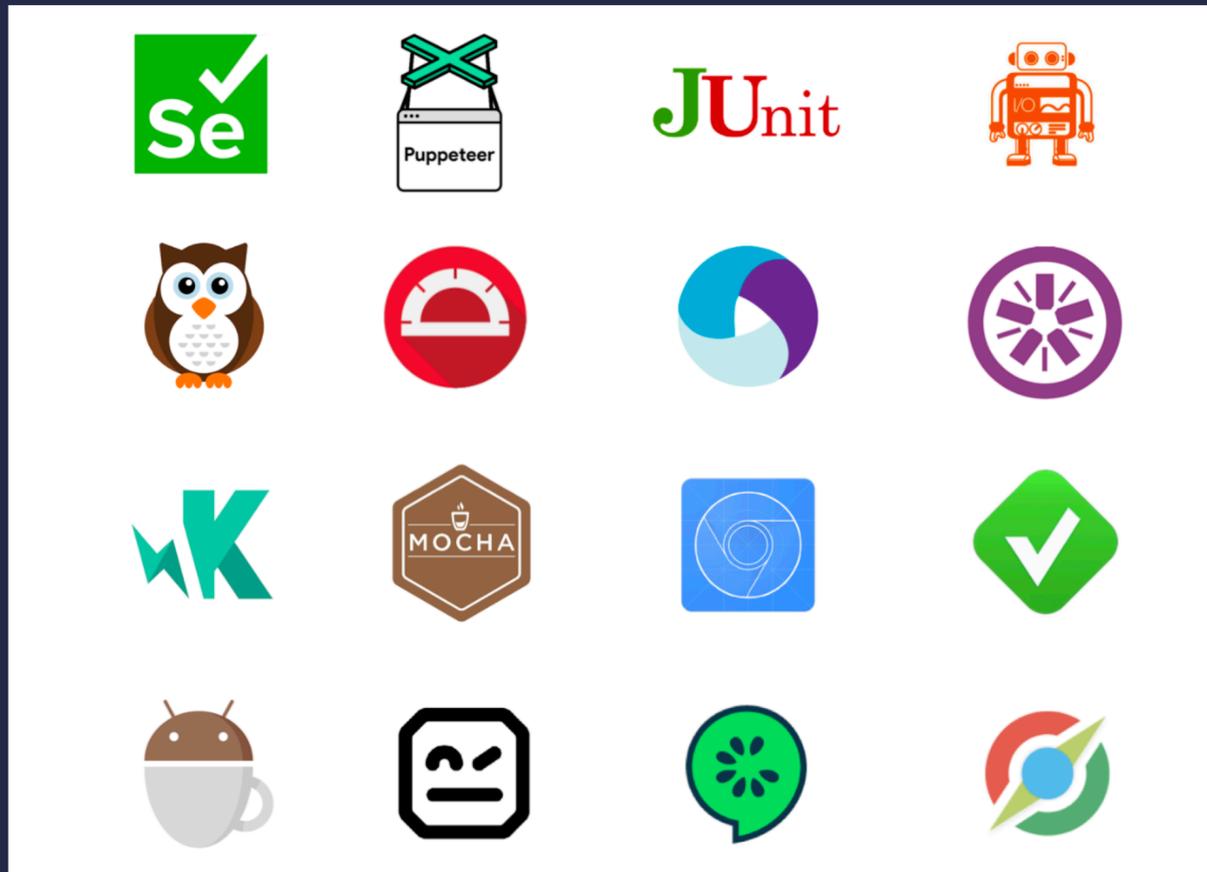
- ▶ Nutzung interner DNS-Server
- ▶ Auch gezielt pro Domain möglich
- ▶ Alternativ: Manuelle Konfiguration von Hostnamen





TEST AUTOMATION & TOOLS

Test Automation



- ▶ webmate bietet eine Vielzahl an Automationschnittstellen (WebDriver, Appium, CDP, ADB, iOS usbmuxd)
- ▶ Ermöglicht die Nutzung vieler Testwerkzeuge, z.B.
 - Selenium, Appium, webdriver.io, Protractor
 - Cucumber, Fitnessse, Tosca
 - Espresso, XCTest, Flutter Test
 - Puppeteer, Playwright, Cypress
 - Galen

API First

- ▶ All webmate Funktionen steuerbar via REST API
- ▶ Umfassende SDKs für Java and JavaScript verfügbar
- ▶ OpenAPI-Dokumentation

The screenshot displays the 'Test Management' API documentation page. On the left is a dark sidebar with a navigation menu containing items like 'Artifacts', 'Assets', 'Blobs', 'BrowserSessions', 'BusinessTransactions', 'Consoles', 'Devices', 'Projects', 'Images', 'Jobs', 'Package Management', 'Selenium Service', 'Tags', 'Test Management', 'Users', and 'User Administration'. The main content area is titled 'Test Management' and includes a subtitle 'Api Routes managing Test Management functionalities.' Below this, a list of API endpoints is shown, each with a colored header indicating the HTTP method (GET, PUT, DELETE, POST) and a lock icon on the right. The endpoints include actions like 'Get Test Template', 'Update Test Template', 'Delete Test Template', 'Get Test Execution', 'Start Test Execution', 'Get TestRun', 'Delete TestRun', 'Finalize TestRun', 'Override EvaluationStatus of TestRun', 'Set Name of TestRun', 'Get TestRuns of Test Execution', 'Get Test results for TestRun', 'Add a Test result for TestRun', 'Get Report Specs In Project', 'Add Report Specs To Project', and 'Query Test Report'.

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

Umfassende Dokumentation

 webmate DOCS Type to search... java ▾

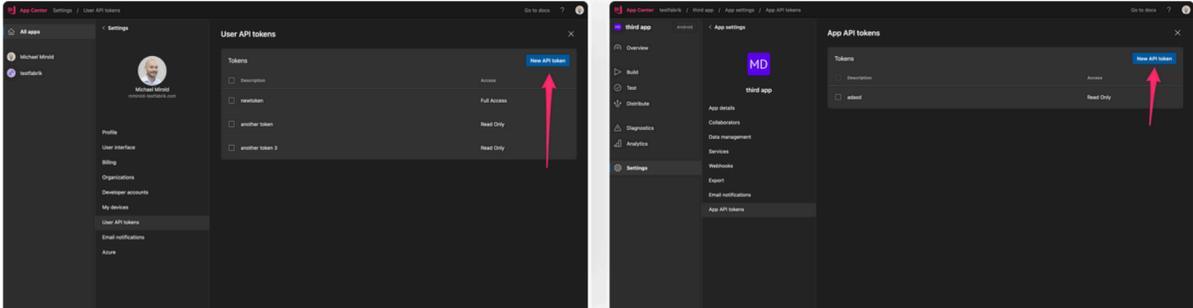
[Home](#) > [Appium Testing](#) > [Integrate MS AppCenter](#)

Integrate MS AppCenter

Microsoft AppCenter is an SaaS solution that helps you build, test, manage, and deploy Android and iOS mobile apps. If you use AppCenter, you can integrate it with webmate to manage the mobile apps available on your webmate devices. This document describes how you use apps managed at AppCenter in webmate.

Integrating AppCenter with webmate

To use Microsoft AppCenter with webmate, you need an MS AppCenter user account with read-access to the app you want to use in webmate. Create a new user API token in your AppCenter settings. The token is only visible once, so either copy it directly to webmate or store it at some safe place.



On this page

- Integrating AppCenter with webmate
- Configuring the AppCenter Integration
- Download Specific Releases from AppCenter
- Enable Automatic App Synchronization

[Home](#) | [Appium Testing](#)

TUTORIAL

- Getting Started
- Using the SDK

HOW-TO

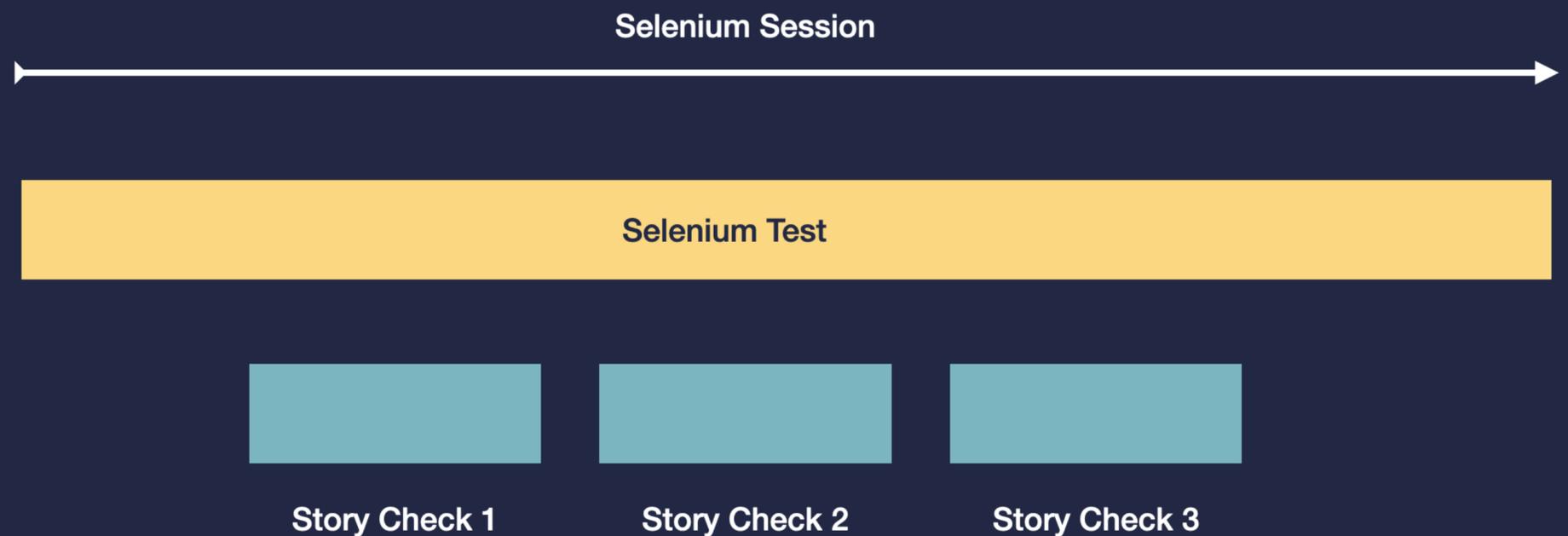
- Debug an Android Mobile App
- Debug an iOS Mobile App
- Use the iOS Debugging Template
- Test Local Web Applications
- Integrate MS AppCenter**
- Use Appium Desktop
- Use Existing Tests with webmate
- Upload a Mobile App to webmate
- Organize webmate Tests

REFERENCE

- webmate mobilebridge - Technical Details
- Appium Capabilities

Strukturierung langlaufender Test mit StoryChecks

- ▶ StoryCheck: logischer Test-Run innerhalb eines anderen Tests (z.B. Selenium)
- ▶ Testtyp erster Klasse in webmate



Custom Actions

Logische Kapselung von technischen Aktionen,
z.B. bei WebDriver, Appium oder Cucumber

```
@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

Timeline
der Aktionen

Session Video
und 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 on 2021-03-25 at 15:28, which has failed. The test steps are listed on the left, with the 'Click on Checkbox' step highlighted in red and marked as failed. The central pane shows a visual representation of the test actions, including 'CLICKS', 'HOVER', 'INPUT', and 'SCROLL'. The bottom of the screen features a timeline with various action markers and labels such as 'Action.ActionStart', 'Action.BrowserSessionState', 'DOM.DomLayoutTree', 'Page.FullpageScreenshot', and 'Page.Screenshot'.

webmate WEBINAR AUTOMATED TESTING ADMINISTRATION HELP

Story Check Test

Selenium FAILED 2021-03-25 15:28 Duration: a few seconds 2021-03-25 15:28 webinar automation

IsElementEnabled id = undefined ✓

GetElementText id = 1bd6ee9f-645f-4a05-a5ac-a15683f55ea3 ✓

after link

Click on button ✓

Click on Checkbox ✗
Not really a failure but anyway
15:29:00.65 (744ms)

FindElement css = #ck ✓

ExecuteScript ✓

IsElementEnabled id = undefined ✓

ElementClick id = 5a69cbab-443e-4302-9f27-517987219475 ✓

Click on Radiobutton ✓

CLICKS
link click link Clicked
button click Button Clicked
checkbox click checkbox Clicked
radio button

HOVER
hover me!

INPUT

SCROLL
scroll me!

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



< Ratenkauf E2E Test

Se Selenium

✓ PASSED

2021-05-05 12:21

2021-05-05 12:22

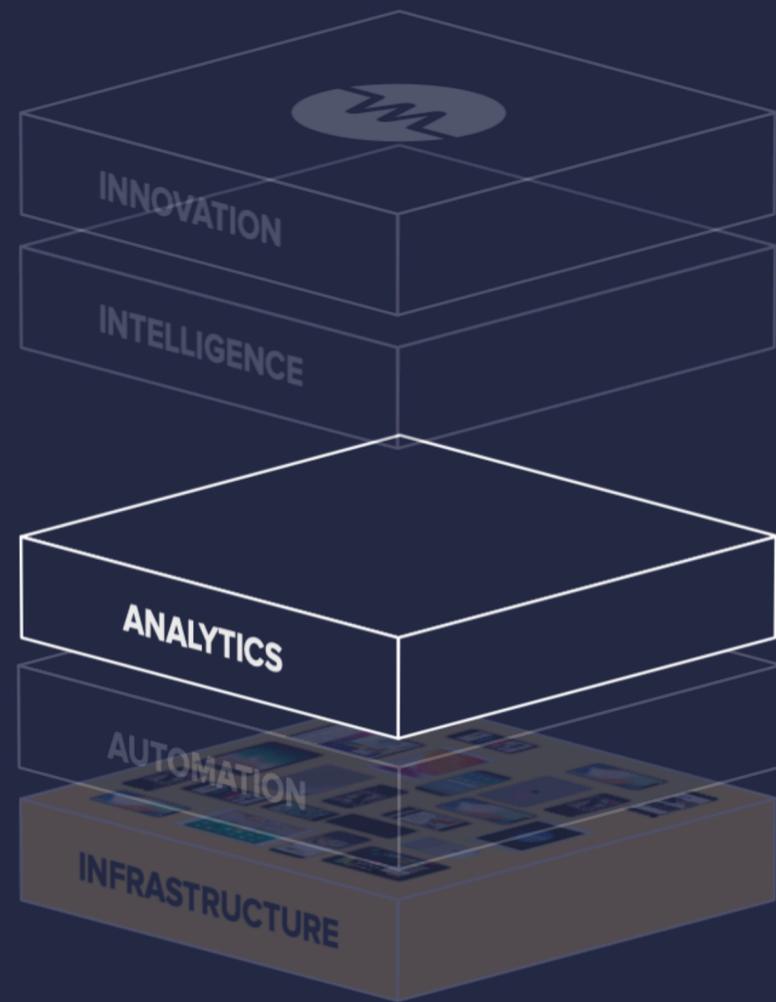
produkt ratenkauf regression sprint 34

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)
- Se FindElement ✓
css = #next\~btn
- Se /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 ✓





TEST ANALYTICS & MANAGEMENT

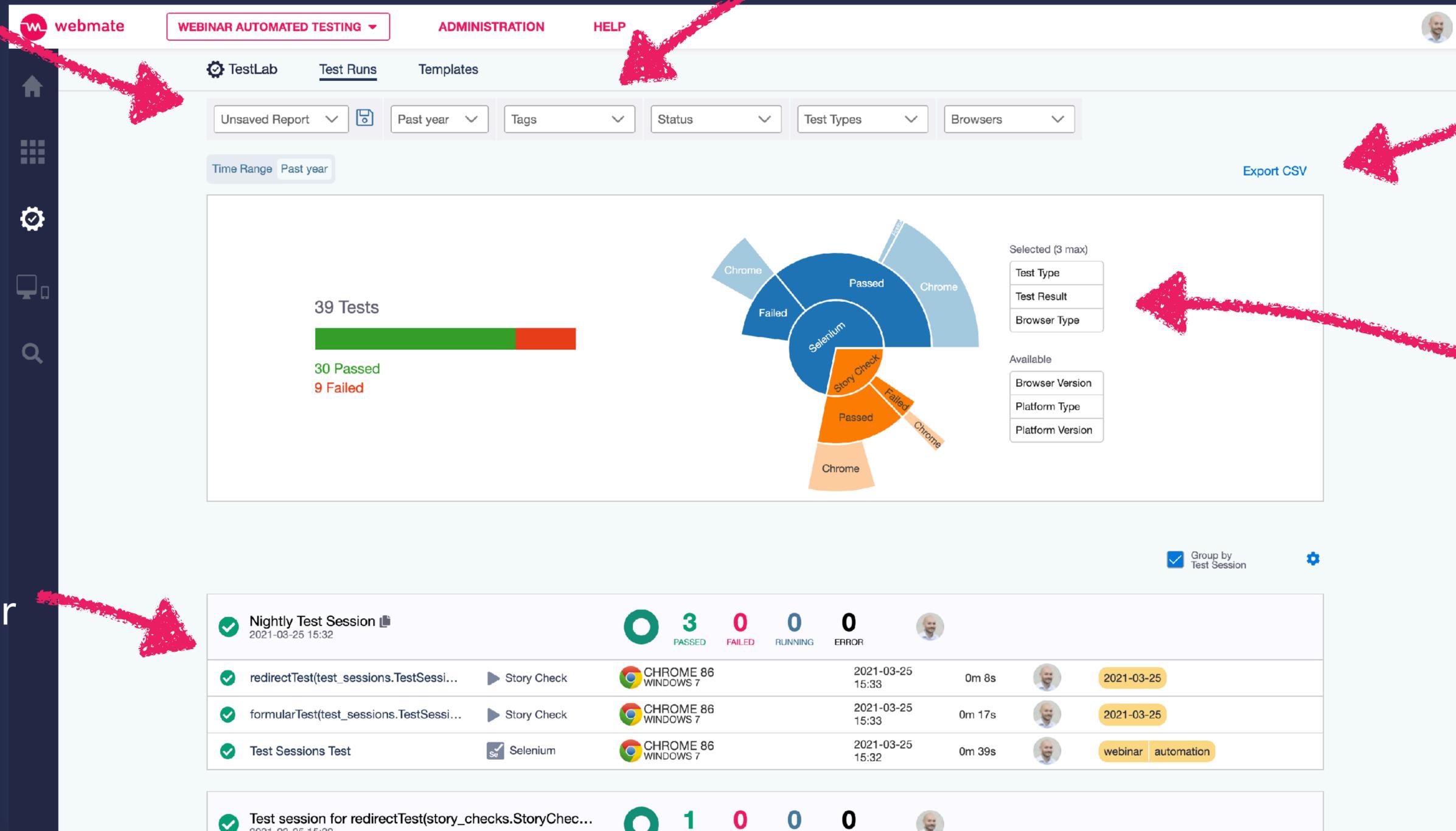
Test Reports

Speichern und teilen von Filtern

Tag-basierte Filter

Datenexport

Interaktiver Drill-Down

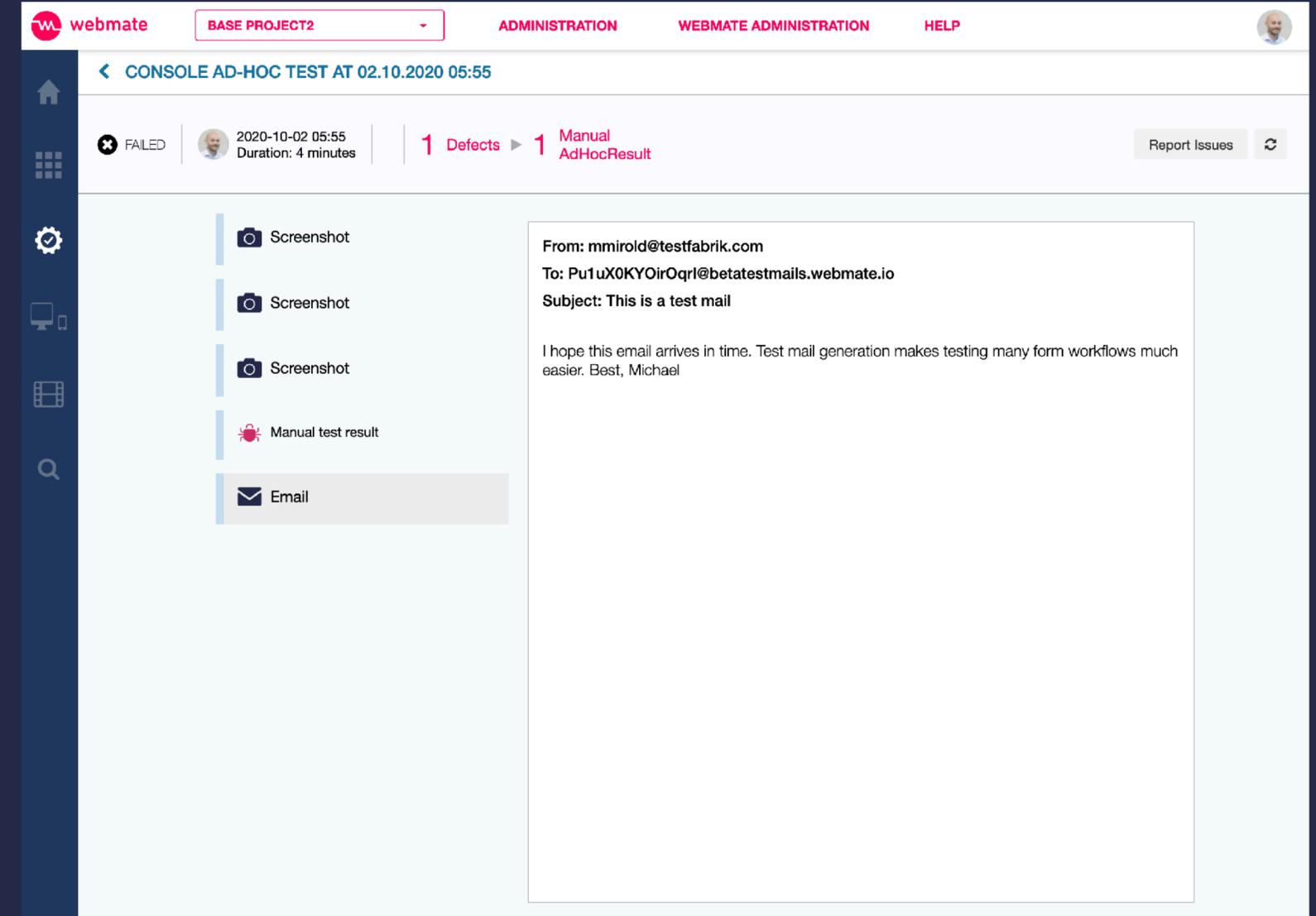
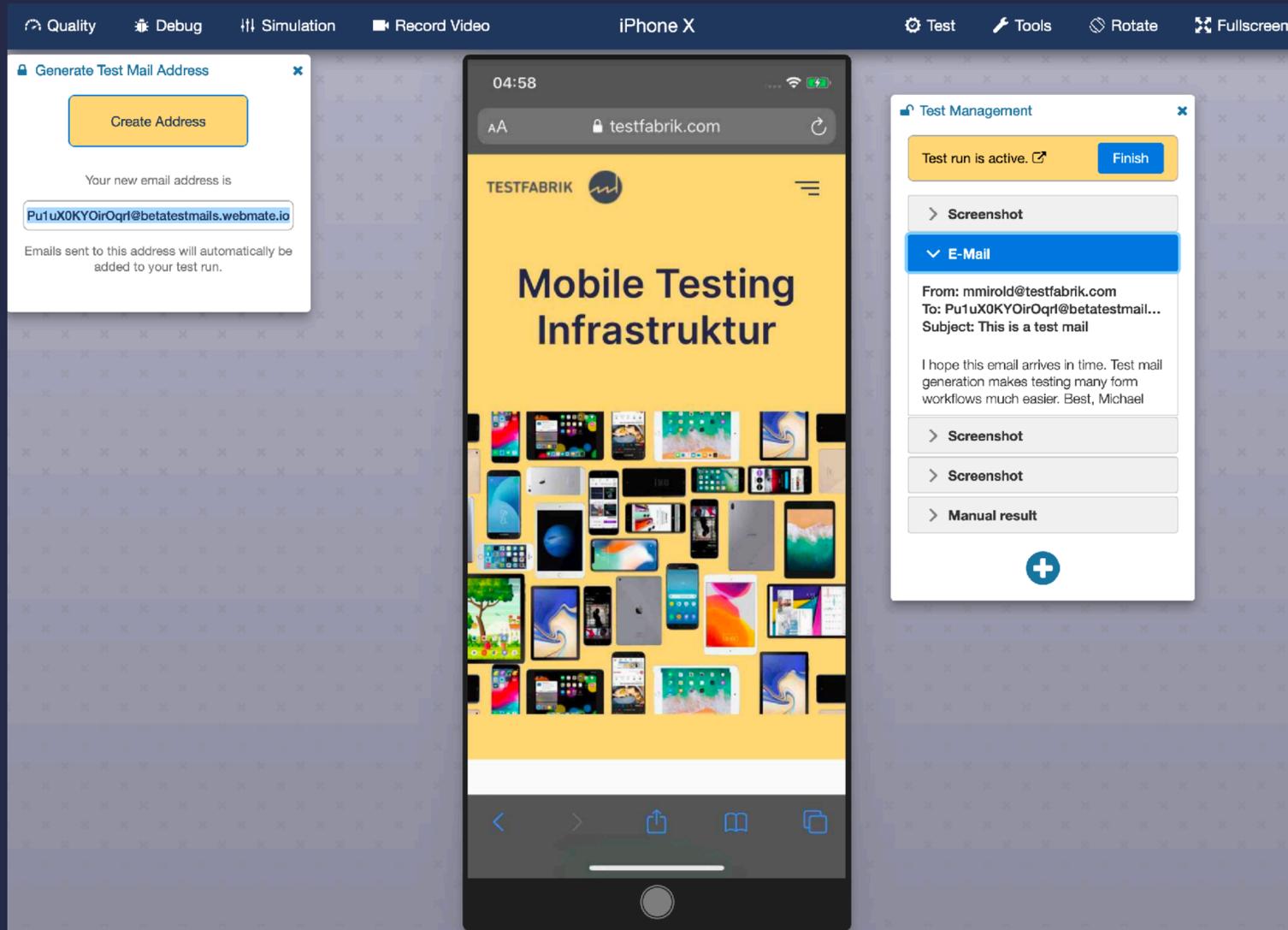


Übersicht vergangener Testläufe

Dokumentation Manueller Tests

Ausführung interaktiver Tests in Device Console

Zugriff auf Testergebnisse im Testlab



Test Mail Accounts

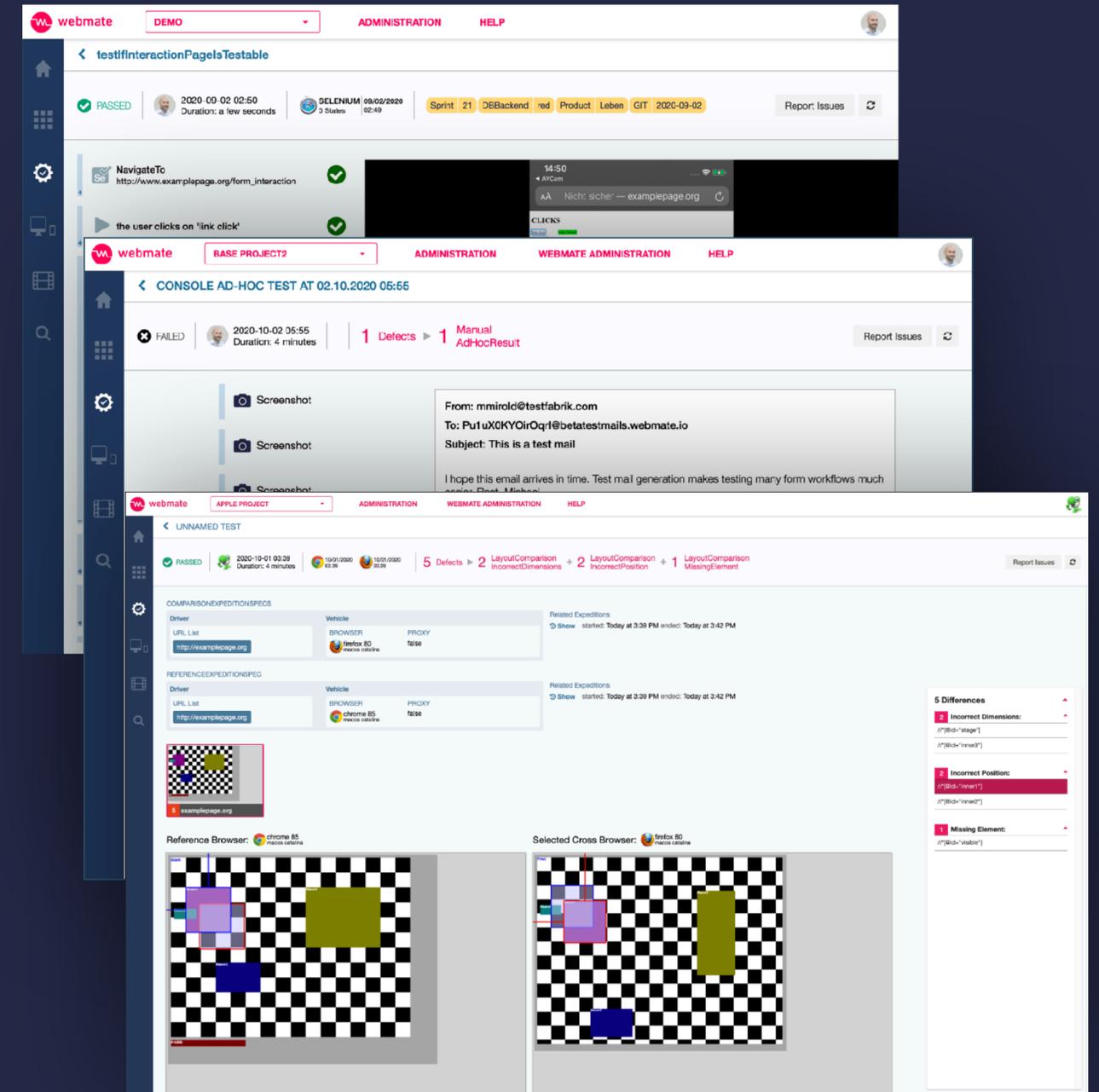
Unterstützung beim Testen von Testfällen mit E-Mail-Workflows

The image illustrates the process of creating and testing a test email account. It is divided into several key components:

- Generate Test Mail Address:** A dialog box with a "Create Address" button. Below the button, it displays the newly generated email address: `3iecBHf20Qsl2I9@betatestmails.webmate.io`. A note states: "Emails sent to this address will automatically be added to your test run."
- Simulated iPhone X:** A central mobile device simulation showing a 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 address field in the email client below.
- Test Management:** A panel on the right showing "Test run is active." with a "Finish" button. Underneath, it lists actions like "Screenshot" and "E-Mail". The "E-Mail" section is expanded to show the email details.
- Email Content:** A detailed view of the generated email. The header shows the recipient: `To: 3iecBHf20Qsl2I9@betatestmails.webmate.io`. The subject is "This is a test mail". The sender is "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". A red arrow points from the "E-Mail" section in the Test Management panel to this email content.

Tests and Test Runs

- ▶ Alle Testaktivitäten in webmate erzeugen **Test Runs**
- ▶ Verschiedene Typen (werden ständig erweitert):
 - **Selenium / Appium**: repräsentieren Sessions
 - **StoryCheck**: Logischer Test innerhalb einer automatisierten Session
 - **Ad-Hoc Check**: Dokumentation eines interaktiven Tests
 - **Expedition Check**: Model-Prüfung innerhalb einer automatisierten Session
 - **Expedition Comparison**: Vergleich von Sessions, z.B. Selenium, bzgl. Layout etc.



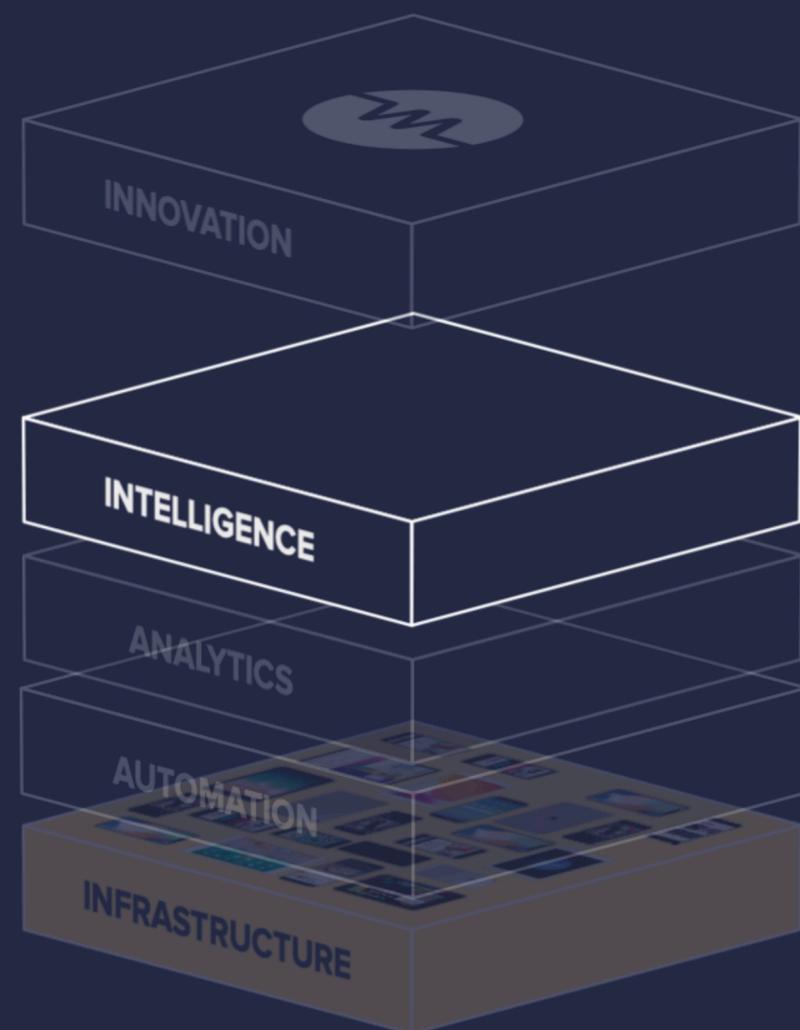
Issue Reporting / Export

- ▶ Test Run Ergebnisse können in externe Tools exportiert werden, z.B. **HP ALM** oder **Jira**
- ▶ Informationen in Test Runs können in Export eingebettet werden, z.B. Screenshots, E-Mails

The screenshot displays the 'Report Issue' form in the webmate application. The interface includes a top navigation bar with 'webmate', 'BASE PROJECT2', 'ADMINISTRATION', 'WEBMATE ADMINISTRATION', and 'HELP'. The main content area is titled 'Report Issue' and contains the following sections:

- Issue Report Target:** A dropdown menu labeled 'GHOOSSE TARGET' with 'ALM Testinstanz' selected.
- Custom Fields:** A section for 'Fields specific to your ALM instance.' containing several dropdown menus: 'FEHLER ID CC', 'FEHLER STATUS' (set to 'NEU'), 'ANWENDUNG', 'ANWENDUNGSKOMPONENTE', 'PROJECT', 'UNTERPROJEKT', 'GEFUNDEN IN TESTPROJECT', 'TESTUMGEBUNG', 'ZIELZYKLUS', and 'LÖSUNGRELEASE'.
- Attachments:** A section titled 'Attach test run information to the reported issue.' with three items: 'Screenshot', 'E-Mail', and another 'Screenshot'. The second 'Screenshot' item is selected, and a preview of a mobile phone home screen is visible below it.

A 'Report Issue' button is located at the bottom of the form.

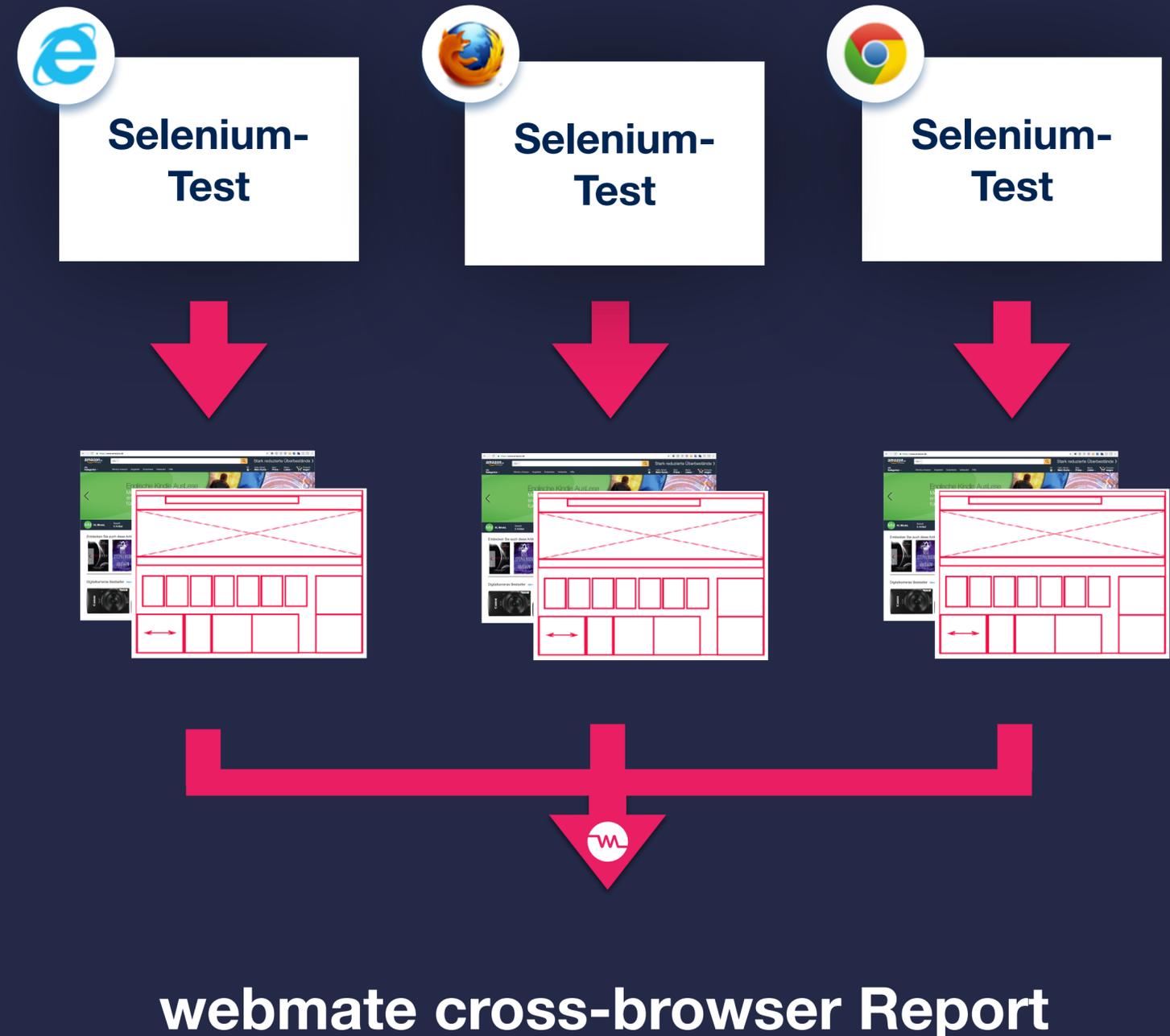


KI BASIERTE TEST AUTOMATION

Vollautomatische Cross-browser Checks

- ▶ Finden Layout- und Content-Abweichungen zwischen verschiedenen Browsern
- ▶ Basieren auf existierenden Selenium-tests oder URL-Listen

```
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();
```



Vollautomatische 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 HIGH-SIERRA

1 Difference

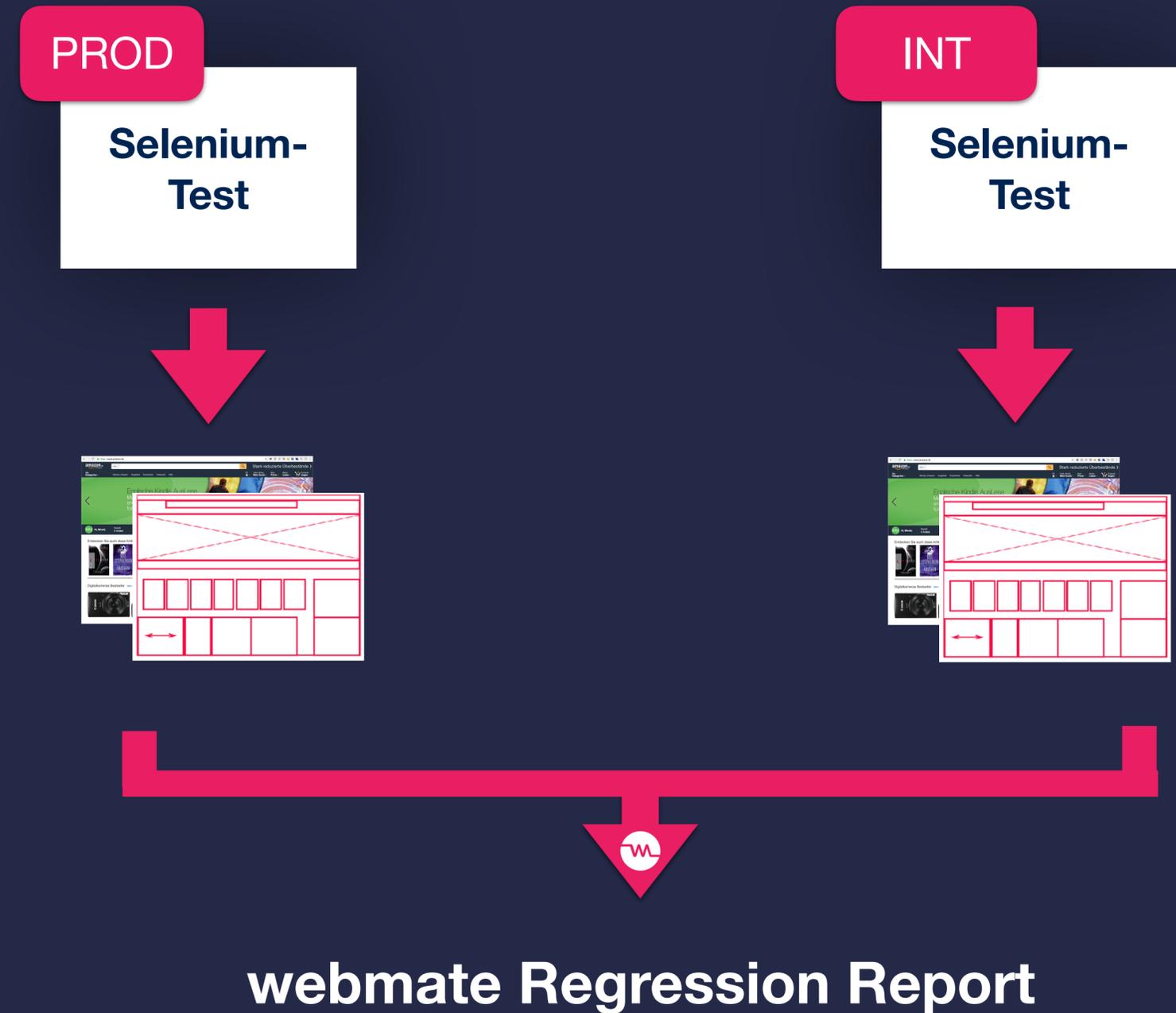
1 Additional Element:

```
//*[@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]`

Vollautomatische Regression Checks

- ▶ Finden Layout- und Content-Abweichungen zwischen verschiedenen Test Runs
- ▶ Basieren auf Seleniumtests oder URL-Listen



Vollautomatische Regression Checks

Regression Test E...

Regression

LAST RUN 10/28/2019

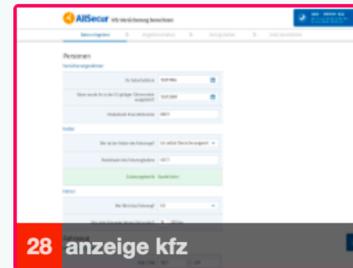
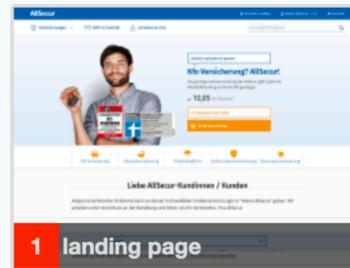
Rerun test



SELENIUM 02/15/2019 10:25

SELENIUM 02/15/2019 10:37

DETAILS



Reference Browser: CHROME 66 WINDOWS 10

Selected Cross Browser: CHROME 66 WINDOWS 10

Reference browser screenshot showing form fields for insurance calculation. The form includes sections for 'Personen' (Insurance holder), 'Halter' (Holder), 'Fahrer' (Driver), and 'Fahrzeug' (Vehicle). A red box highlights the 'Fahrzeug' section, specifically the 'Zulassung' (Registration) field.

Selected cross browser screenshot showing form fields for insurance calculation. The form is identical to the reference browser, but a red box highlights the 'Fahrzeug' section, specifically the 'Zulassung' field. A vertical red line is drawn through the form, and a red box highlights the 'Zulassung' field in the reference browser screenshot.

28 Differences

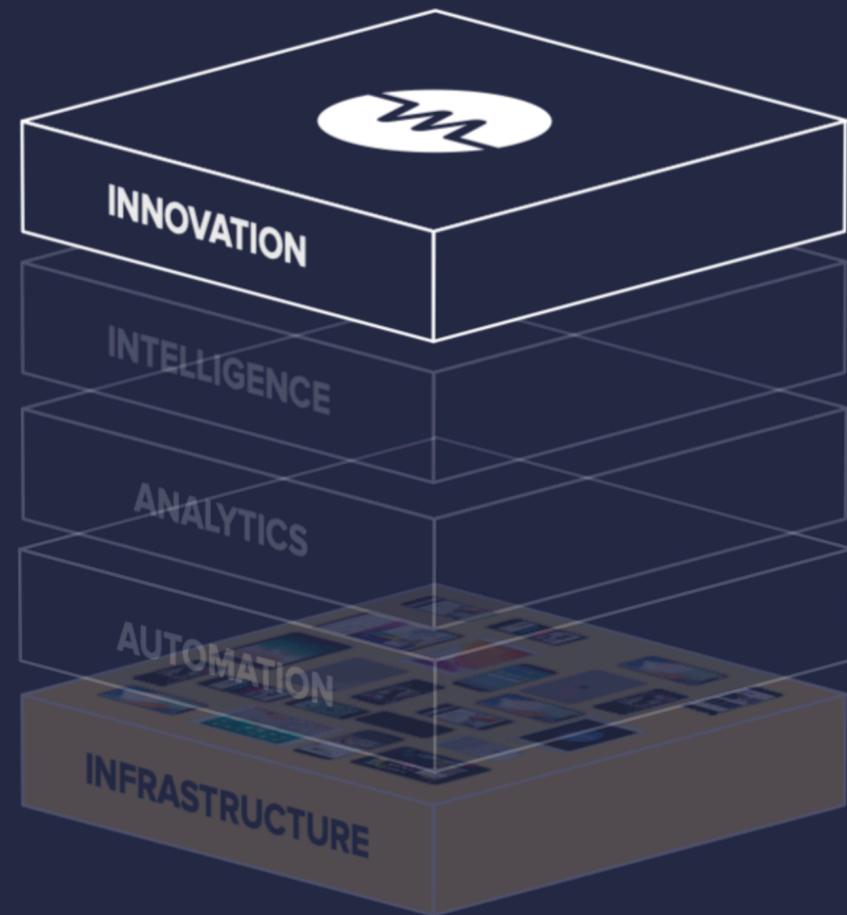
8 Additional Element:

- //*[@id="fahrzeugSuche"]/form[...]

2 Incorrect Dimensions:

- //*[@id="fahrzeugSuche"]/form[1]
- //*[@id="fahrzeugSuche"]/form[...]

10 Incorrect Position:



TEST INNOVATION

Test Innovation

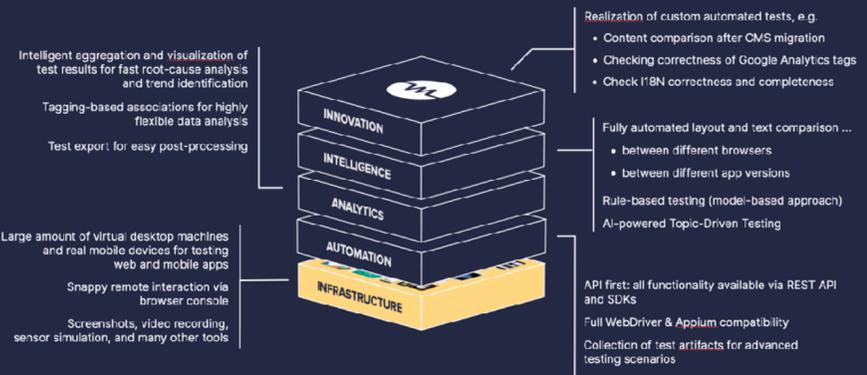
Aufgrund seiner offenen Architektur kann webmate für neuartige und individuelle Testarten eingesetzt werden.

Beispiele

Sind die
Google Analytics Tags
korrekt implementiert?

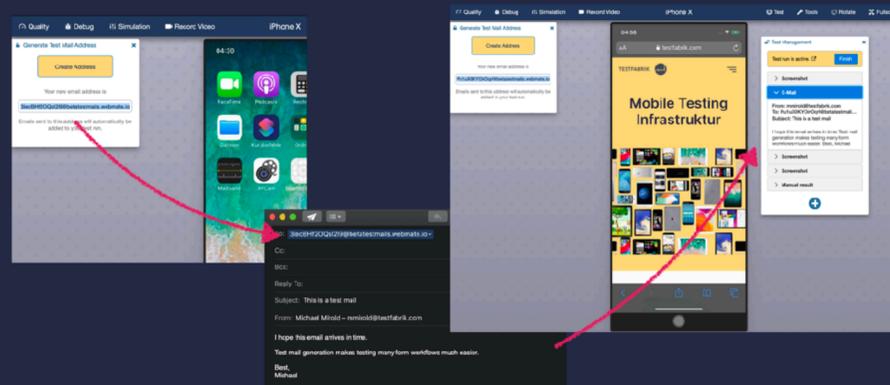
Ist die
Internationalisierung auf
allen Seiten korrekt?

Wurden alle Seiten korrekt
ins neue CMS migriert?

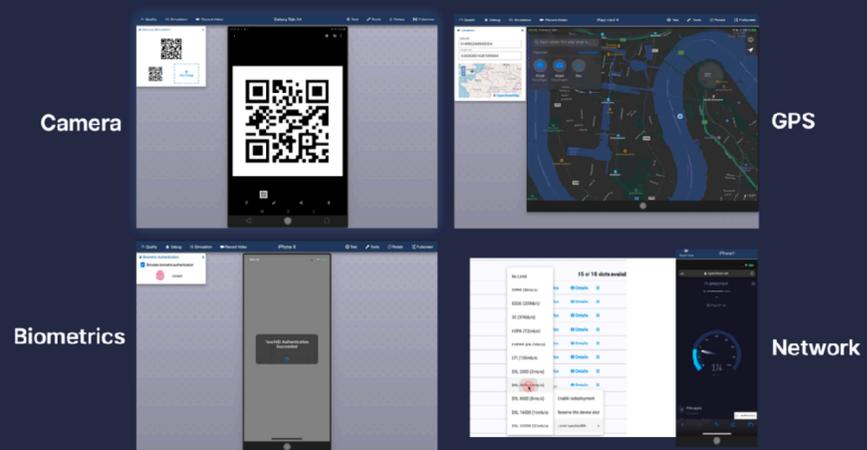


Test Mail Accounts

Simplify testing journeys where users must enter email addresses



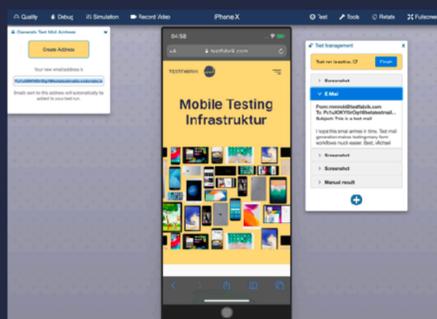
Mobile Hardware Simulation



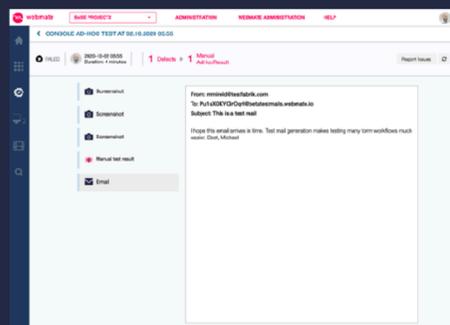
Vielen Dank :-)

Documenting Manual Tests

Perform interactive test in console

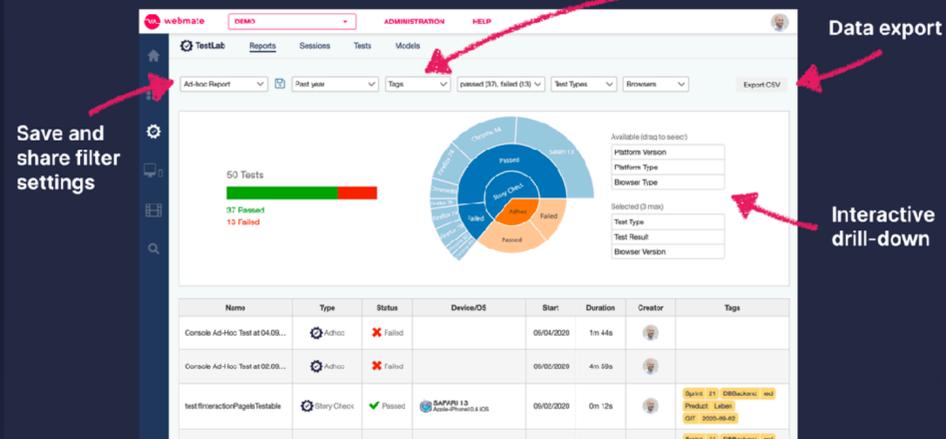


Access test result in reports or for issue export



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_Line"});
waitForElement(driver, By.id("ec")).click();
waitForElement(driver, By.id("ec")).click();
waitForElement(driver, By.id("red")).click();
browserSession.createState({matchingId:"after_radio button"});
waitForElement(driver, By.id("move")).click();
    
```

