

Since 2007 I have been working with great passion as a software developer and software architect in desktop and web development. As a consultant I help to increase the quality of my customers' software. I specialize in the development of web-based business applications. I create backends in C# using the Microsoft .NET framework as services or APIs. They usually run in the cloud and on the local intranet. The frontends are developed in JavaScript/TypeScript, HTML and (S)CSS with Angular and can be used by browser-enabled systems. My strengths lie in independent and responsible thinking and acting.

**14** *Frontend Skills***8** *Backend Skills***11** *Industries***32** *Implemented Projects*

## Skills

<i>Backend</i>		<i>Frontend</i>		<i>Software/Tools</i>	
ASP.NET Core	★★★★★	Angular	★★★★★	Angular CLI	★★★★★
ASP.NET WebAPI	★★★★★	AngularJS	★★★★★	Autodesk Map Server	★★★★★
C#	★★★★★	ASP.NET MVC	★★★★★	GitHub	★★★★★
FDO data access	★★★★★	ASP.NET Webforms	★★★★★	Jenkins	★★★★★
Rx	★★★★★	CSS	★★★★★	Jira	★★★★★
SQL data access	★★★★★	HTML	★★★★★	Microsoft Azure	★★★★★
SQL Reporting Services	★★★★★	Ionic	★★★★★	Microsoft SQL Server	★★★★★
WCF	★★★★★	JavaScript	★★★★★	Microsoft TFS	★★★★★
		LESS/SASS/SCSS	★★★★★	NPM und NodeJs	★★★★★
<i>Testing</i>		NativeScript	★★★★★	SonarQube	★★★★★
Integration-Tests	★★★★★	Razor	★★★★★	Visual Studio	★★★★★
UI-Tests	★★★★★	TypeScript	★★★★★	Web Debug Tools	★★★★★
Unit-Tests	★★★★★	WinForms	★★★★★	WebStorm	★★★★★
		WPF	★★★★★		

## Industry experience

- Vending machine operation
- Access control systems
- Event management
- Vehicle inspection
- Gastronomy
- Geoinformation systems
- Healthcare
- Real estate
- Marketing
- Particle measurement
- Video surveillance



## Skill Profile & Project CV

**Version** 2024.11

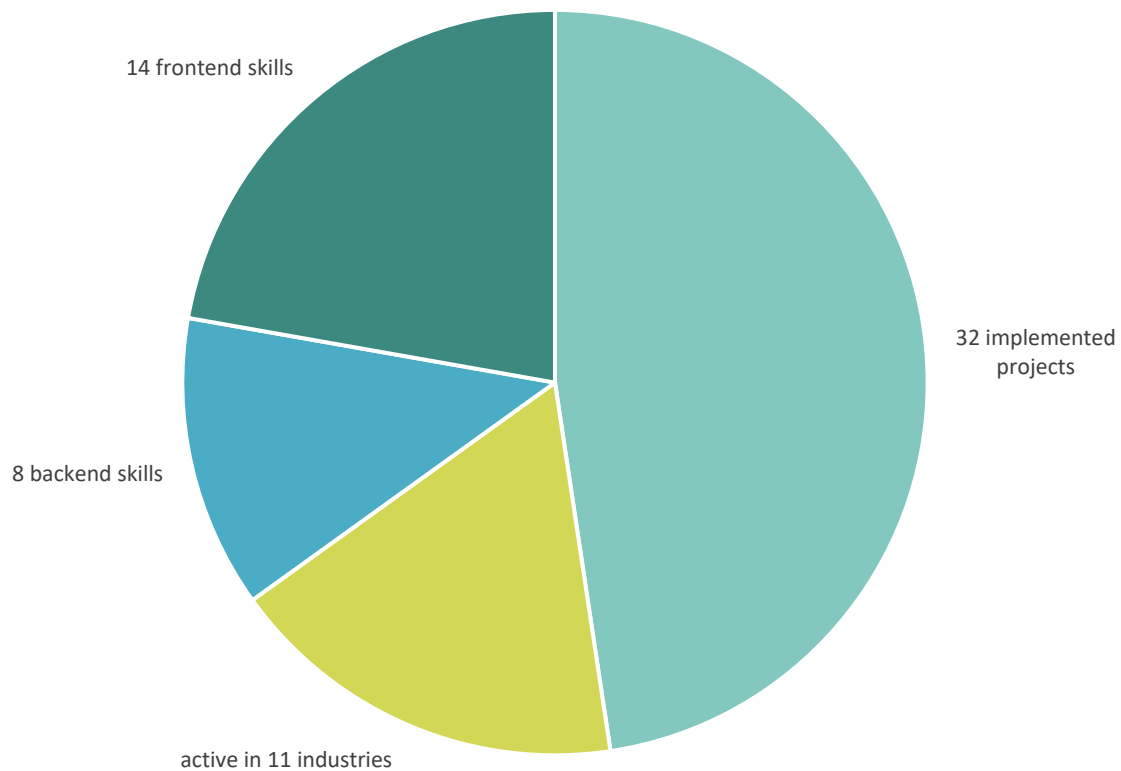
**Date** 22<sup>th</sup> November 2024

 [latest version online](#)

 [also available in german](#)

## Project experience

Reactive Systems can offer a wealth of experience from projects implemented in various industries. We enjoy working with already established teams but when taking on projects and implementing them at our own responsibility, we can truly shine. Our strengths lie in independent and responsible thinking and acting coherently. With our internal teamwork as well as our superb communication with external teams we ensure any project's success.



## Industry experience

- Vending machine operation
- Access control systems
- Event management
- Vehicle inspection
- Gastronomy
- Geoinformation systems
- Healthcare
- Real estate
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- Particle measurement
- Video surveillance

## Top clients in recent years



**Gesellschaft für  
Technische Überwachung,  
Stuttgart**



**CompuGroup Medical  
SE & Co. KGaA, Koblenz**



**Softplan Informatik GmbH,  
Wettenberg**



**Intelligent incentivieren  
Sales & Marketing Services  
AG, Montabaur**

## Top projects in recent years

2024	<ul style="list-style-type: none"> <li>• Further development of a web application for vehicle testing Angular, Angular Material, ASP.NET Core, C#, GraphQL, Kafka, MongoDB, NGRX</li> </ul>
2024	<ul style="list-style-type: none"> <li>• Development of medical practice software for managing appointments incl. online booking Angular, Bootstrap, ASP.NET Core, C#, MS SQL, REST, SCSS, TypeScript</li> </ul>
2023	<ul style="list-style-type: none"> <li>• Further development of a web application for vehicle testing Angular, Angular Material, ASP.NET Core, C#, GraphQL, Kafka, MongoDB, NGRX</li> </ul>
2022	<ul style="list-style-type: none"> <li>• Web application for importing betting data and its statistical evaluation ASP.NET Core, Bootstrap, C#, MS SQL, Razor, TypeScript</li> </ul>
2022	<ul style="list-style-type: none"> <li>• PWA for recording working times and CMS for managing employees and times Angular, ASP.NET Core, C#, Entity Framework Core, MS SQL, SCSS, TypeScript</li> </ul>
2021	<ul style="list-style-type: none"> <li>• Mobile app for performing and logging COVID-19 antigen rapid tests. Angular, Bootstrap, HTML, NativeScript, SCSS, TypeScript</li> </ul>
2020	<ul style="list-style-type: none"> <li>• Further development of a web application for the submission of doctors' invoices AngularJS, Bootstrap, CSS, HTML, Java, JavaScript, SCSS</li> </ul>
2019	<ul style="list-style-type: none"> <li>• Lead Management System to manage leads and actions ASP.NET Core MVC, Bootstrap, JavaScript, C#, Entity Framework, Google APIs</li> </ul>
2018	<ul style="list-style-type: none"> <li>• Web application for creating and publishing advertising campaigns Angular 5, ASP.NET, Facebook API, Google APIs, HTML, JavaScript, C#</li> </ul>
2018	<ul style="list-style-type: none"> <li>• Further development of a web application for the submission of doctors' invoices AngularJS, Bootstrap, CSS, HTML, JavaScript, SCSS</li> </ul>
2017	<ul style="list-style-type: none"> <li>• Development of website, API and database for presentation of real estate Angular 4, ASP.NET Core, Bootstrap, C#, Entity Framework Core</li> </ul>
2017	<ul style="list-style-type: none"> <li>• Further development of a software for premium shops AngularJS, ASP.NET WebAPI, C#, CSS, HTML, JS, Entity Framework, SQL</li> </ul>
2016	<ul style="list-style-type: none"> <li>• Development of a software for facial recognition AngularJS, ASP.NET WebAPI, C#, CSS, HTML, JS, Neurotechnology SDK, WCF</li> </ul>
2016	<ul style="list-style-type: none"> <li>• Development of a software for measuring particles in clean rooms AngularJS, ASP.NET MVC, Bootstrap, C#, HTML, JS, Entity Framework, WCF</li> </ul>
2015	<ul style="list-style-type: none"> <li>• Further development of a geoinformation system Angular, ASP.NET WebAPI, HTML, JavaScript, Material Design, SCSS</li> </ul>
2014	<ul style="list-style-type: none"> <li>• Development of a reporting system ASP.NET, C#, SQL Reporting Services</li> </ul>

## Skills

Reactive Systems has specialised in the development of web-based business applications. We create backends in C# using the Microsoft .NET Framework as Services or APIs. They usually run in the cloud and the local intranet. The frontends are being developed in JavaScript, HTML and CSS with Angular and can be used by browser-enabled systems. If required, we can also develop WPF frontends and dock them to the backend.



## Frameworks – Languages – Tools

- Angular and AngularJS
- ASP.NET Core
- ASP.NET MVC and WebAPI
- Bootstrap
- Entity Framework
- jQuery
- NativeScript
- WCF
- WinForms and WPF
- C#
- FDO
- JavaScript
- HTML
- Razor
- (S)CSS
- SQL
- TypeScript
- Azure DevOps
- Git
- Jira
- NPM and NodeJS
- SQL Reporting Services
- SQL Server
- Team Foundation Services
- Visual Studio
- WebStorm

## Ingo Grebe



**Ingo Grebe, Dipl.-Inform.** (\*19<sup>th</sup> October 1981)

**Company role:** Founder and owner

**Tasks:** Customer consulting, software architecture and development

Since 2007 I have been working with great passion as software developer and software architect in desktop and web development. As a consultant I help increase the quality of my client's software. By founding Reactive Systems, I aim at taking responsibility for larger projects and promoting young developers.

## Skills

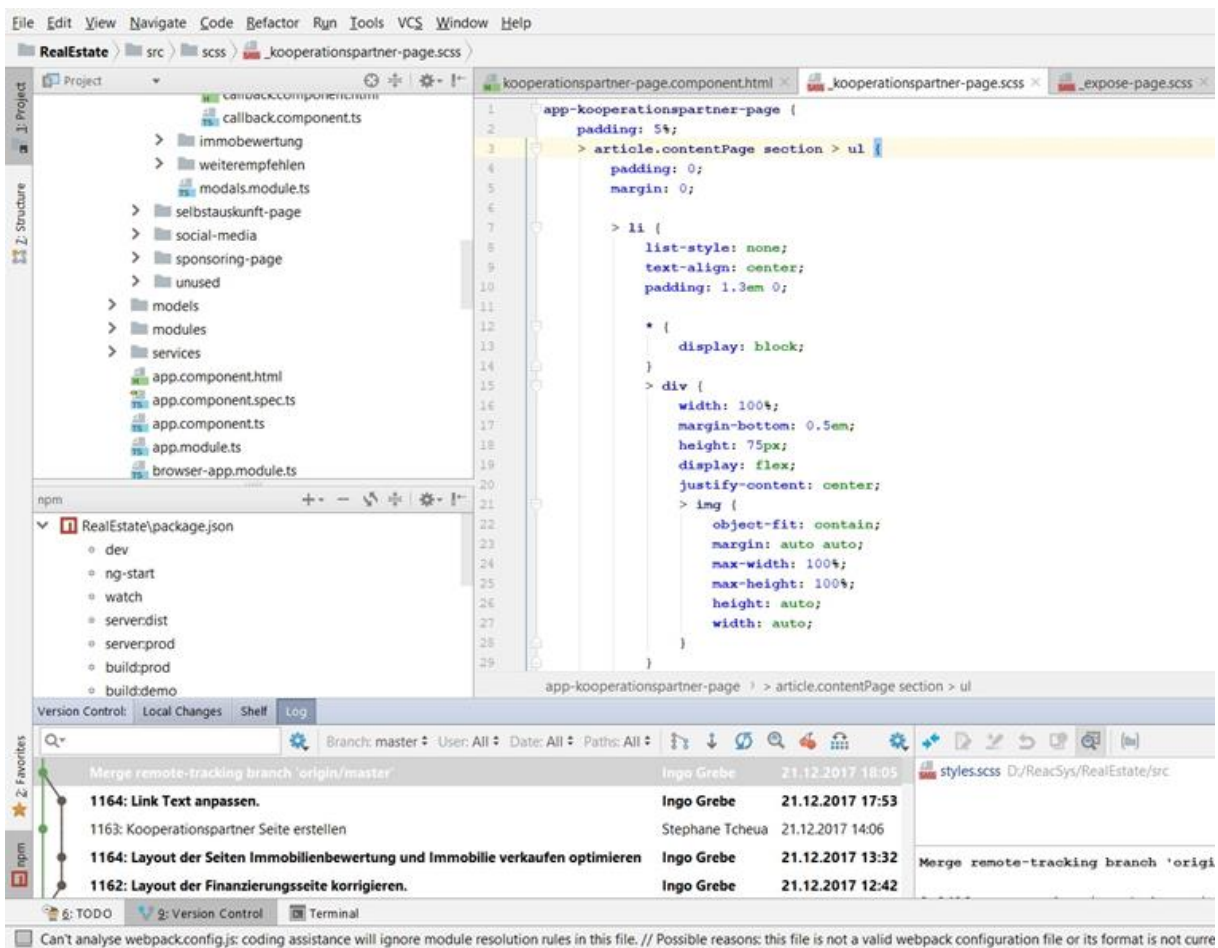
Technology	Description	Rating
<b>Backend</b>		
ASP.NET Core	Web development using ASP.NET Core	★★★★★
ASP.NET WebAPI	REST API development using ASP.NET WebAPI	★★★★★
C#	Application development with C# up to version 4.6.1 including unit tests and understanding of the concepts IoC and DI including their use within Unity	★★★★★
FDO data access	Data access via FDO	★★★★★
Rx	Software development with the Rx-Framework, as well as Observables and Observers	★★★★★
SQL data access	Data access via Entity Framework, Repository Pattern and T-SQL	★★★★★
SQL Reporting Services	Reporting with SQL Reporting Services	★★★★★
WCF	Service development using WCF	★★★★★
<b>Frontend</b>		
Angular	Web development using JavaScript and the Angular2/4 Framework	★★★★★
AngularJS	Web development using JavaScript and the AngularJS Framework	★★★★★
ASP.NET MVC	Web development using ASP.NET MVC	★★★★★
ASP.NET Webforms	Web development using ASP.NET Webforms including ViewState and Session Handling	★★★★★
CSS	Styling of web pages using pure CSS and CSS frameworks such as Bootstrap and Material Design	★★★★★
HTML	Web development using HTML including semantic elements and main components	★★★★★

Technology	Description	Rating
Ionic	Framework for the development of hybrid apps	★★★★★
JavaScript	Web development via JavaScript and jQuery, web-service calls and AJAX	★★★★★
LESS/SASS/SCSS	Compiling CSS Files from LESS/SASS/SCSS	★★★★★
NativeScript	Framework for the development of hybrid apps	★★★★★
Razor	Web development using Razor	★★★★★
TypeScript	Web development using TypeScript	★★★★★
WinForms	Desktop development using WinForms	★★★★★
WPF	Desktop development using WPF	★★★★★
<b>Software/Tools</b>		
Angular CLI	Use of the Angular CLI for code generation, compilation, and build process	★★★★★
Autodesk Infrastructure Map Server	Use of the Autodesk Infrastructure Map Server and MapGuide as map service	★★★★★
GitHub	Use of GitHub as version control system	★★★★★
Jenkins	Continuous Integration Tool	★★★★★
Jira	Task management	★★★★★
Microsoft Azure und Azure DevOps	Use of Azure and AzureDevOps for the provision of services and for the development cycle	★★★★★
Microsoft SQL Server	Use of the SQL Server for data storage	★★★★★
Microsoft Team Foundation Server	Use of TFS as a version control system and for task management	★★★★★
NPM und NodeJs	Use of NPM and NodeJs for package management and compilation	★★★★★
SonarQube	Static analysis and evaluation of source code quality	★★★★★
Visual Studio	Development environment	★★★★★
Web Debugging Tools	Google Chrome, IE and Firefox developer tools	★★★★★
WebStorm	Entwicklungsumgebung	★★★★★
<b>Testing</b>		
Integration-Tests	Testing of components in interaction using frameworks such as MSTest in the backend and Jasmine in the frontend.	★★★★★
UI-Tests	User interface tests with Selenium Webdriver.	★★★★★
Unit-Tests	Tests of code classes using frameworks such as MSTest in the backend and Jasmine in the frontend.	★★★★★

## References

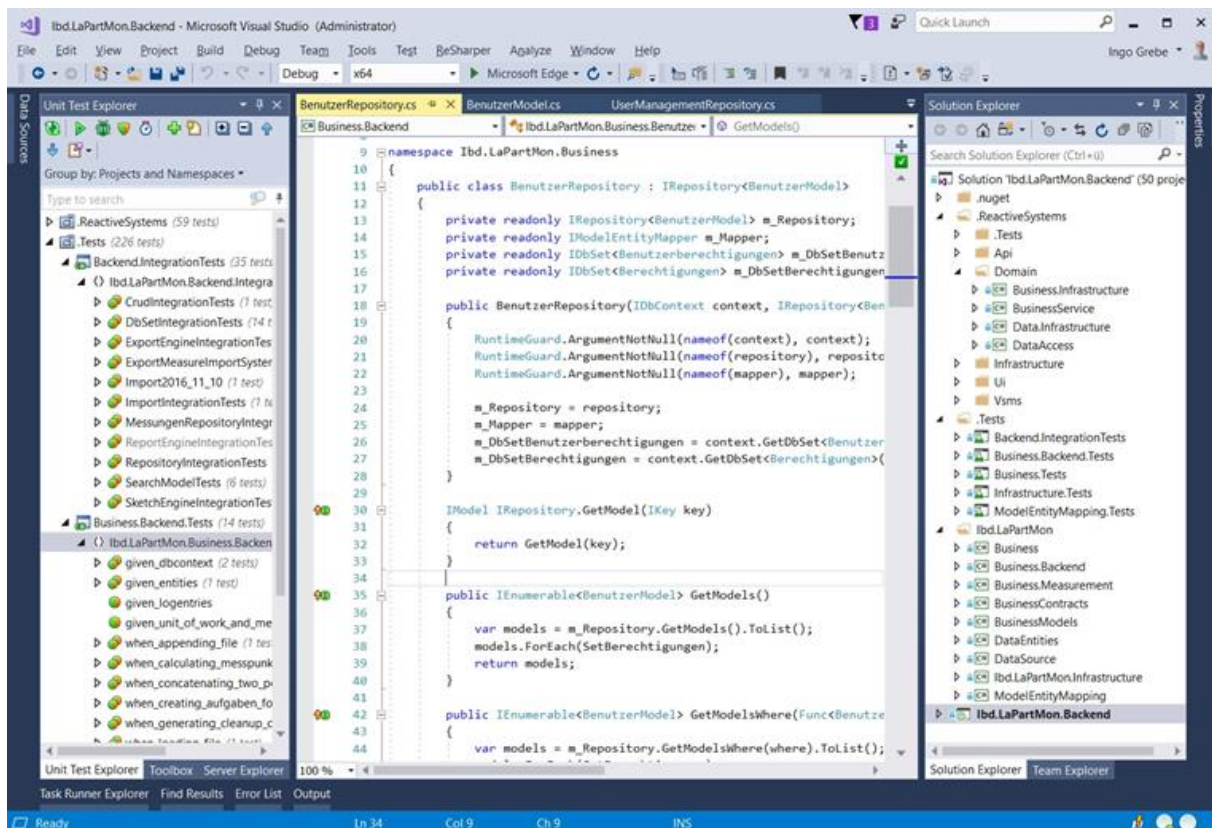
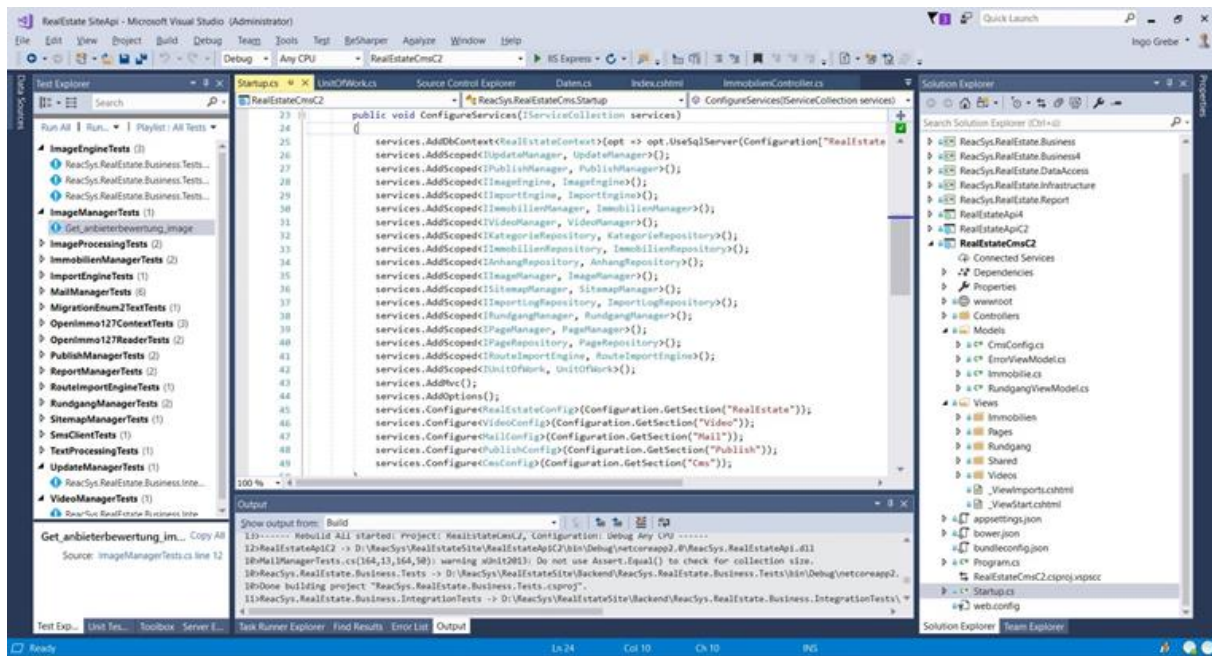
This section contains an excerpt of screenshots of the web applications and development environments with project structure of the projects we have developed independently.

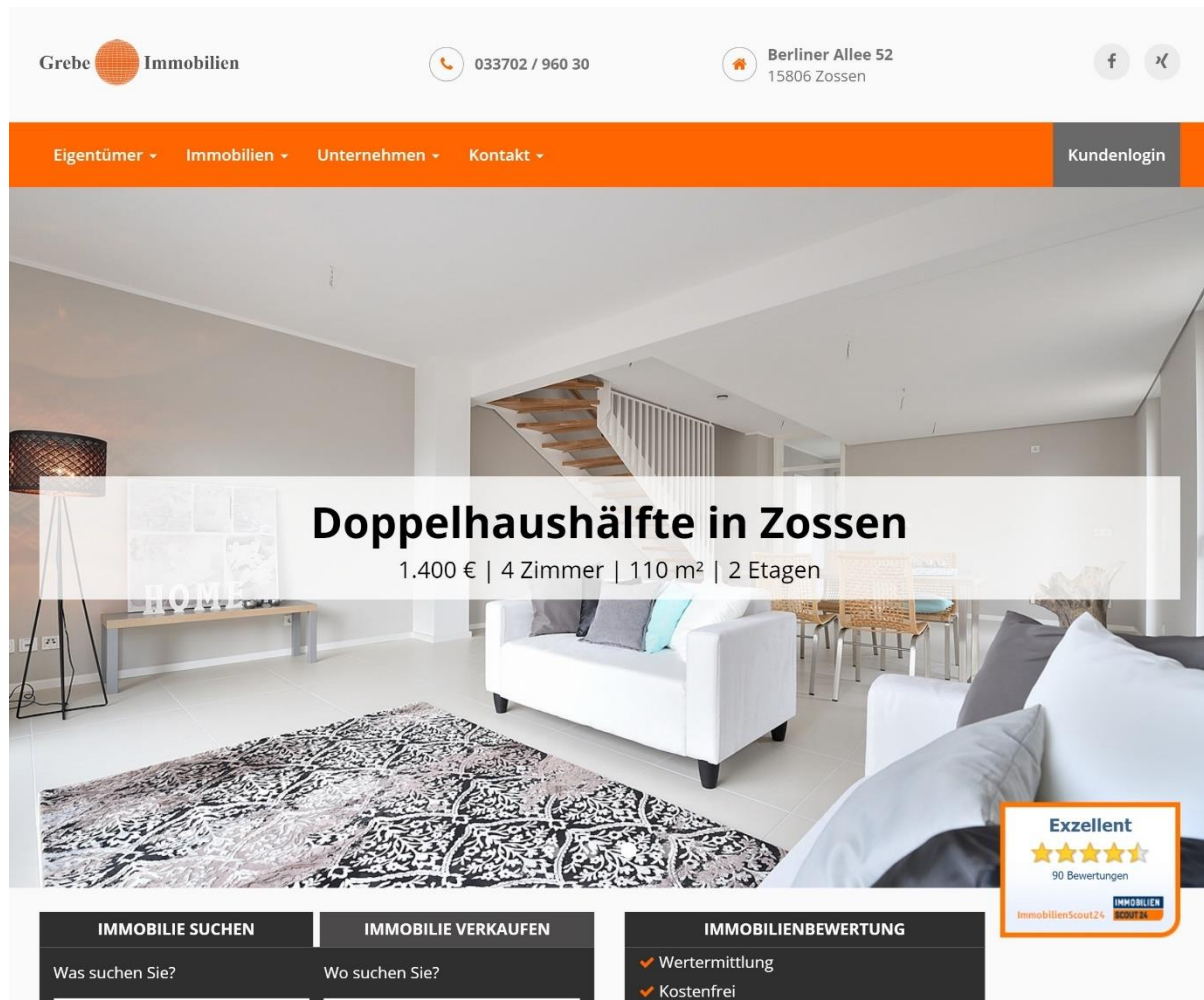
## Frontend development environment

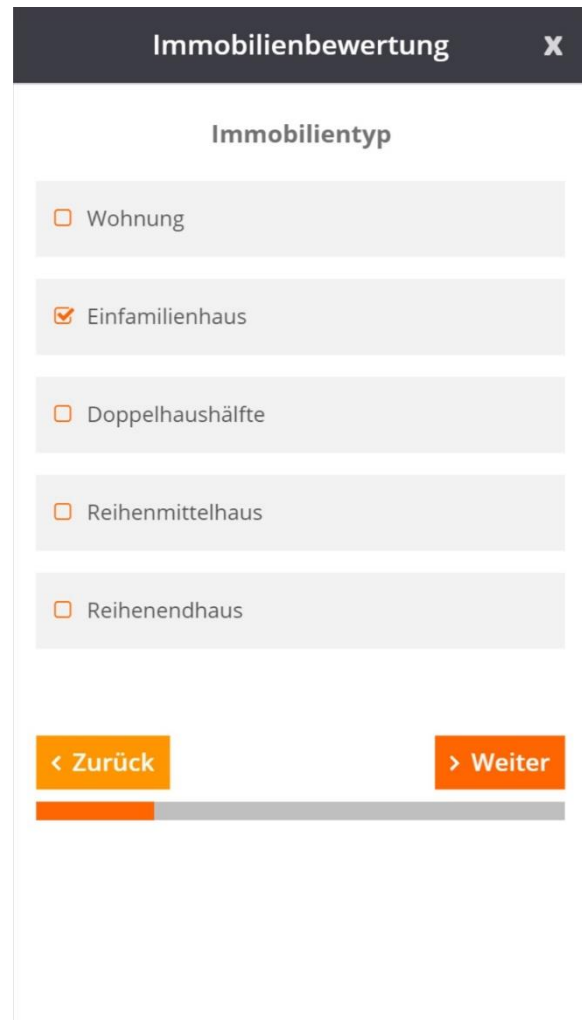
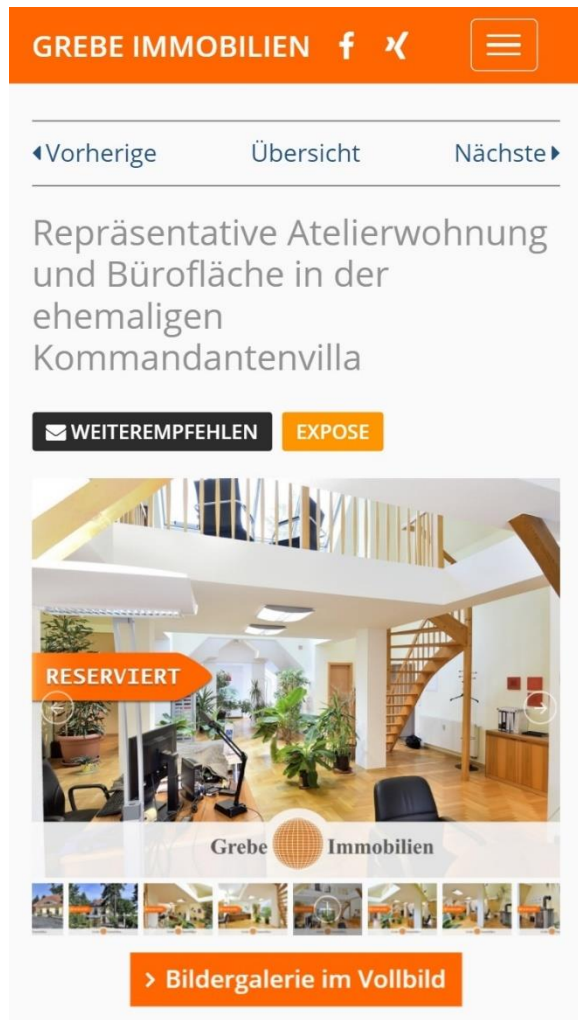




## API and backend development environments

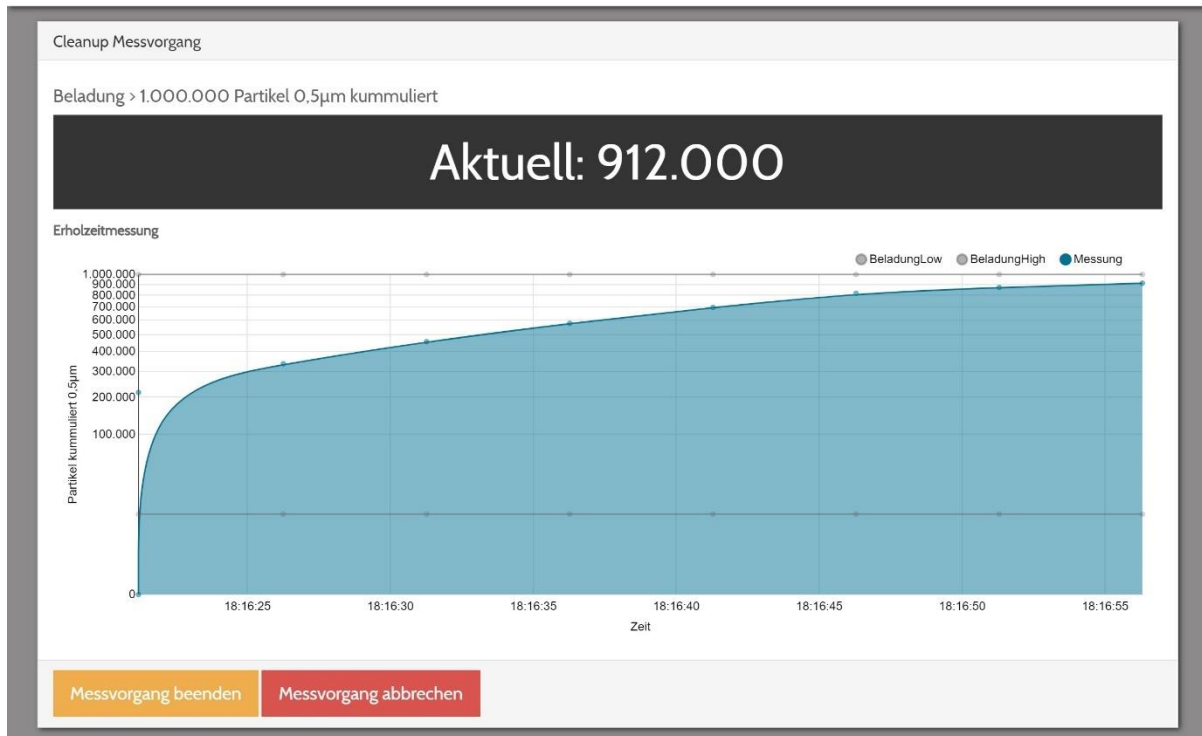


Desktop optimised UI of the website <https://grebe.immobilien>

Smartphone optimised UI of the website <https://grebe.immobilien>

## Tablet optimised UI of the application LaPartMon Measurement

### LaPartMonMeasurement



### LaPartMonMeasurement



## Desktop optimised UI of the application LaPartMon Management

LaPartMonManagement

Office Messung Admin marcel

Aufgaben Angebote Rechnungsverfolgung

Aufgaben anlegen Messungen zusammenführen Suchtext Suchen Erweitern

Zeige 10 Einträge Filter:

Aktionen	Messart	Anlage	Datum	Messpunkt	Angebot	Ergebnis	Fälligkeit	Prüflos	Status
<input type="checkbox"/>		Video	I4-42	28.04.2017	1		01.03.2017		
<input type="checkbox"/>		Video	E47	27.06.2017	1		01.01.2016		
<input type="checkbox"/>		Video	B13	12.01.2016	1	0	01.11.2020		offen
<input type="checkbox"/>		Video	B13	12.01.2016	1	0	01.01.2021		offen
<input type="checkbox"/>		Video	B13	12.01.2016	1	0	01.03.2021		offen
<input checked="" type="checkbox"/>		Video	F29	16.06.2016	1	200062606	1	16.06.2016	abgeschlossen
<input checked="" type="checkbox"/>		Video	B13	12.01.2016	1	0	01.05.2021		offen
<input type="checkbox"/>		Video	B13	12.01.2016	1	0	01.07.2021		offen
<input type="checkbox"/>		Video	B13	12.01.2016	1	0	01.09.2021		offen
<input type="checkbox"/>		Video	B13	12.01.2016	1	0	01.11.2021		offen

1 bis 10 von 2.500 Einträgen

Zurück 1 2 3 4 5 ... 250 Weiter

Aktionen



## Desktop optimised UI of the application SprAd\$ales

The image displays three screenshots of the SprAd\$ales desktop application interface, showing a desktop-optimized UI.

**Screenshot 1: Dashboard**

The dashboard shows a sidebar with navigation links: Dashboard, Einkäufe, Leads, Aktionen, Produkte, Administration, and Über. The main content area displays a "Dashboard" section with four summary cards:

- Leads gesamt: 532
- Leads im Monat: 32
- Aktionen gesamt: 2398
- Aktionen im Monat: 125

Below the summary cards, there is a section titled "Aktionen für heute" (Actions for today) showing a list of leads with their details:

Lead	Typ	Fälligkeit	Bearbeiter	Volumen	Status
Samen-Schneider GmbH Groß- und Einzelhandel mit Saatgut, Garten- und Zoobedarf	☎	15.11.2019 10:20	Marcus Graetz		🕒
Hirschhäuser - Herr Dr. med. Malk Hirschhäuser	☎	18.11.2019 09:05	Marcus Graetz		🕒
Uwe Wenzel - U.W.'s Bustouristik	📅	18.11.2019 09:10	Marcus Graetz	115 €	🕒
Pane Autohandel e.U.	☎	18.11.2019 09:40	Marcus Graetz		🕒
Fahrschule Nikolaus Rommel	☎	18.11.2019 09:40	Marcus Graetz		🕒
Vural Autohandel GmbH	☎	18.11.2019 09:45	Marcus Graetz	360 €	🕒

**Screenshot 2: Lead Details**

The "Lead" section shows a form for entering lead information:

- Name: \_\_\_\_\_ Nachname: \_\_\_\_\_
- Firma: Reactive Systems
- Telefon: \_\_\_\_\_
- Mobil: \_\_\_\_\_
- E-Mail: \_\_\_\_\_
- Webseite: \_\_\_\_\_
- Url: \_\_\_\_\_
- Straße: Christian-Kremp-Straße 11
- PLZ: 35578 Stadt: Wetzlar
- Land: Deutschland

The "Gespräch" (Conversation) section shows a form for entering conversation details:

- Brutto: \_\_\_\_\_ Netto: \_\_\_\_\_ Gesprächspartner: \_\_\_\_\_
- Ergebnis: ☐ Anruf ☐ Präsentation ☐ Wiedervorlage ☐ Gewinn ☐ Verlust ☐ +1 Empfehlung ☐ Kein Bedarf ☒ Unbestimmt
- Fälligkeit: 30.12.2019 06:50
- Notizen: \_\_\_\_\_
- Buttons:

**Screenshot 3: Adressen einkaufen**

The "Adressen einkaufen" (Buy Addresses) section shows a form for entering address purchase details:

- Dein Preis pro gekaufte Adresse: 0,05€
- Genaue Adresssuche Bereichssuche
- Suchtext: \_\_\_\_\_
- Standort: \_\_\_\_\_
- Buttons:

Below the form, there is a table titled "Gekaufte Adressen" (Bought Addresses) showing a list of addresses with their details:

Name	Adresse	Telefon	Url	Website	Kaufdatum
Shiso Dayspa Thai Massage Frankfurt		+49 69 21998717	Link	Link	11.11.2019 12:47
Babys Fußpflege und Wellness Massagen		+49 6181 60633	Link		11.11.2019 12:47

## Desktop optimised UI of the application SprAdConnector

The image displays the desktop interface of the SprAdConnector application. It is divided into two main sections: a login screen on the left and a main dashboard on the right.

**Login Screen:**

- Logo: SPRADCONNECTOR
- Text: Anmelden
- Form fields: Username (admin), Password (\*\*\*\*\*)
- Checkboxes: ☐ Angemeldet bleiben, ☐ Passwort vergessen?
- Buttons: Anmelden, Konto erstellen | E-Mail Aktivierung

**Main Dashboard:**

The dashboard is titled "Kampagnen" (Campaigns) and "Kanäle" (Channels). It features a sidebar with navigation options: Übersicht, Kampagnen, Administration, Kanäle, Abo, and Einstellungen.

**Kampagnen Section:**

Buttons: + Kampagne erstellen

Search bar: Suche...

Aktionen	Überschrift	Text	Veröffentlicht am
Aktionen	Digitale Kundengewinnung und Kundenbindung - perfekt beraten und umgesetzt mit kreat...	Moderne Unterne...	11.11.19, 17:58
Aktionen	Gewinnen Sie mit Ihrer Website Kunden? Unsere Website-Analyse gibt Ihnen Gewissheit...	Ihre Website ist d...	30.07.19, 18:13
Aktionen	Mit Schnäppchen vertreiben Sie den letzten Kunden...	Schnäppchen sin...	28.07.19, 12:35
Aktionen	Wir haben uns neu positioniert und bieten Ihnen kreatives Online-Marketing und innovative...	Neue Kunden und...	28.07.19, 12:35
Aktionen	Wir haben uns neu positioniert und bieten Ihnen kreatives Online-Marketing und innovative...	Neue Kunden und...	28.06.19, 11:16
Aktionen	Unsere Crowdfunding-Kampagne: Unterstützen Sie uns und somit alle kleinen und mittleren...	Unternehmenssta...	11.04.19, 16:12
Aktionen	SprAdSnack # 13   Onpage - In der Küche liegt die Würde	Onpage sind o...	28.03.19, 18:45
Aktionen	SprAdSnack # 11   Mehr Kunden, Kontakte und Verkäufe mit Google My Business	Geheimtipps sind...	20.03.19, 07:32
Aktionen	SprAdSnack # 12   Erfahrungsorientiertes Lernen und Verkaufstrainings mit Umsetzungsgar...	Genau das bietet...	20.03.19, 07:30
Aktionen	SprAdSnack # 10   Creatis E-Book: „Worum Menschen kaufen – Entdecke die wahren Kaufmoti...	Unser Partner, dar...	08.03.19, 18:23

Gesamt: 29 | 10

**Kanäle Section:**

Buttons: + Kanal erstellen und bearbeiten

Aktionen	Typ	Name
Aktionen	🏠	Für Ihren Erfolg verbinden wir daten- und analysebasierte Digitalformate mit analoger Kommunikation und Verkauften 4.0!
Aktionen	G	Grobe & Groetz - Agentur für Digitales Marketing und Verkaufstrainings
Aktionen	f	Grobe & Groetz

Buttons: Facebook Kanal hinzufügen, Website Kanal hinzufügen, WhatsApp Kanal hinzufügen, GoogleMyBusiness Kanal hinzufügen

Footer: spradconnector JUMP v2019.0.0.0 [20190329], Impressum | Datenschutz | Nutzungsbedi...

## Mobile App „Mein Schnelltest“

