

# E2E Testing

with Cypress

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 <https://github.com/niewiemek>



iteratec

# About iteratec

We develop individual **software systems and digital products**.

We drive technological leadership, develop innovation potential and **leverage brave new ideas**.

Together with our customers, we develop innovative solutions to **turn challenges into pioneering successes** that increase our customers' ability to compete.



# Well placed

**400**

Colleagues

**100**

Students

**25**

Years of experience

**50**

Million euros turnover

**7**

Locations



Office

## Wrocław (Breslau)

**15**

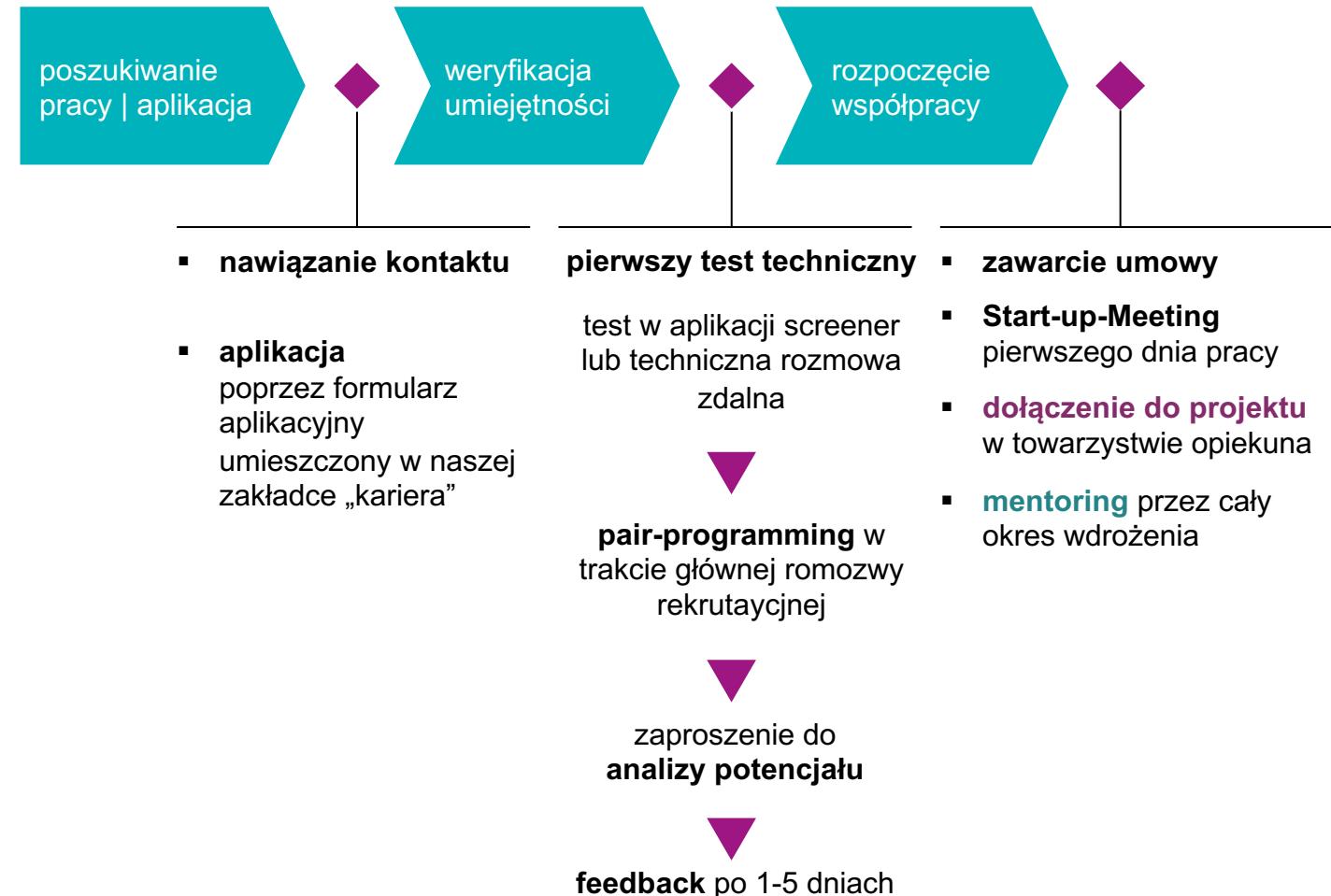
Colleagues

**5**

Students



# Proces rekrutacyjny w iteratec



# Our Customers ...



DAIMLER



**OTTO**



**SIEMENS**



**SW/M**



... and over **200** more

## Open and modular smart metering for the property sector

Cockpit and assembly portal

The screenshot shows the QIVALO platform interface. On the left, a vertical navigation bar lists: DASHBOARD, AUFGABEN, PORTFOLIO (selected), ABRECHNUNG, IMPORT (COMING SOON), and AUSWERTUNG. The main area displays a dashboard titled 'Nutzeinheit 2, EG links' for '65197 Wiesbaden'. It includes a 'Kundenportal Admin' header and a 'Liegenschaftsnummer Matchcode:' field. Below this is a section titled 'Zähler und Geräte' showing four meter readings:

Type	Number	Value	Unit
KUE	00626412	251	
WOZ	00626352	710	
	20026897	63	
	20022617	121	

Each reading includes a small icon (wavy lines for KUE, water drop for WOZ, and two other symbols for the others), a unique identifier, and a value.

# QIVALO

Development of a central platform to manage digital utility meters as well as analyse all usage data collected and aid with energy cost statements

### Added value

- Single-source support with the design, architectural draft, implementation, support and maintenance
- Providing support by making available competencies regarding business analysis
- Frontend comprising two modules (customer and assembly portal)
- Reduction in administrative costs achieved by designing the energy cost statement process in an easily understandable way

## Implementation of the DriveNow CarSharing services

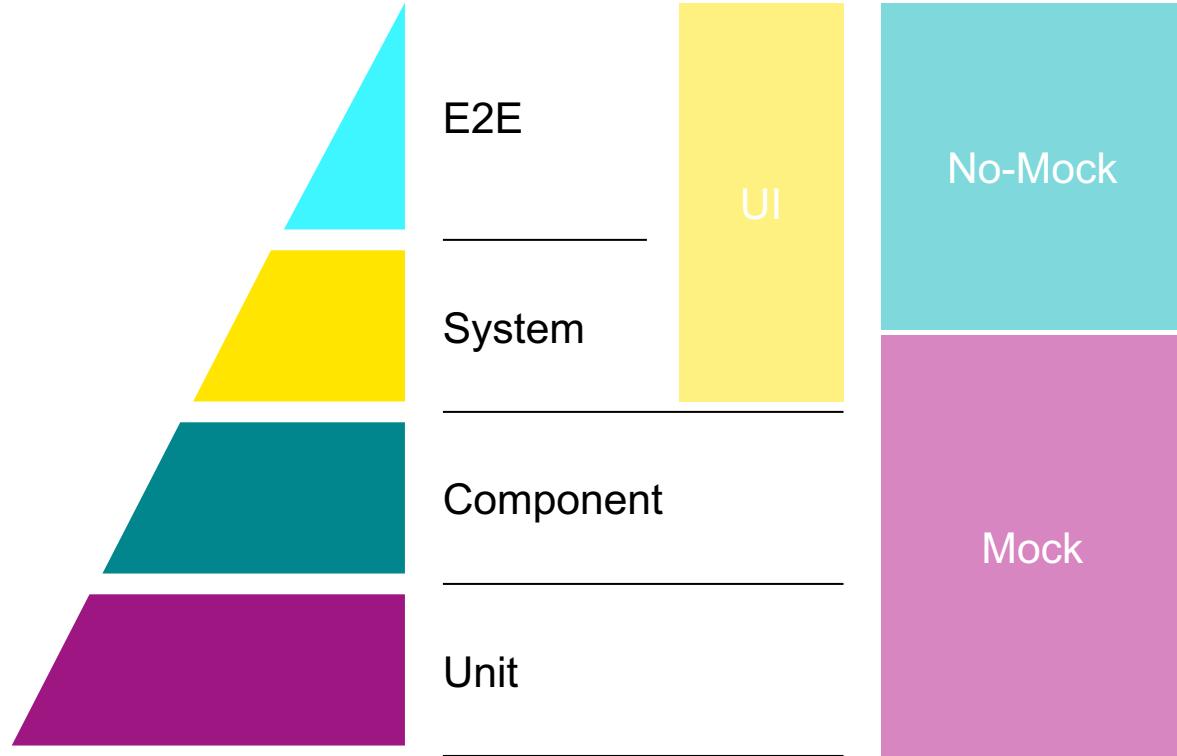
### DriveNow

Technical design and implementation of the DriveNow CarSharing clients as well as the backend vehicle services

#### **Added value**

- Expansion of BMW's product range to include an innovative solution for urban mobility
- Linking intelligent services with mobile solution concepts
- Deployment in the city centre

where to use Cypress





- ✓ works directly in a browser
- ✓ tests written in JavaScript
- ✓ designed for developers & QA
- speed ✓
- mocking ✓
- not flaky ✓

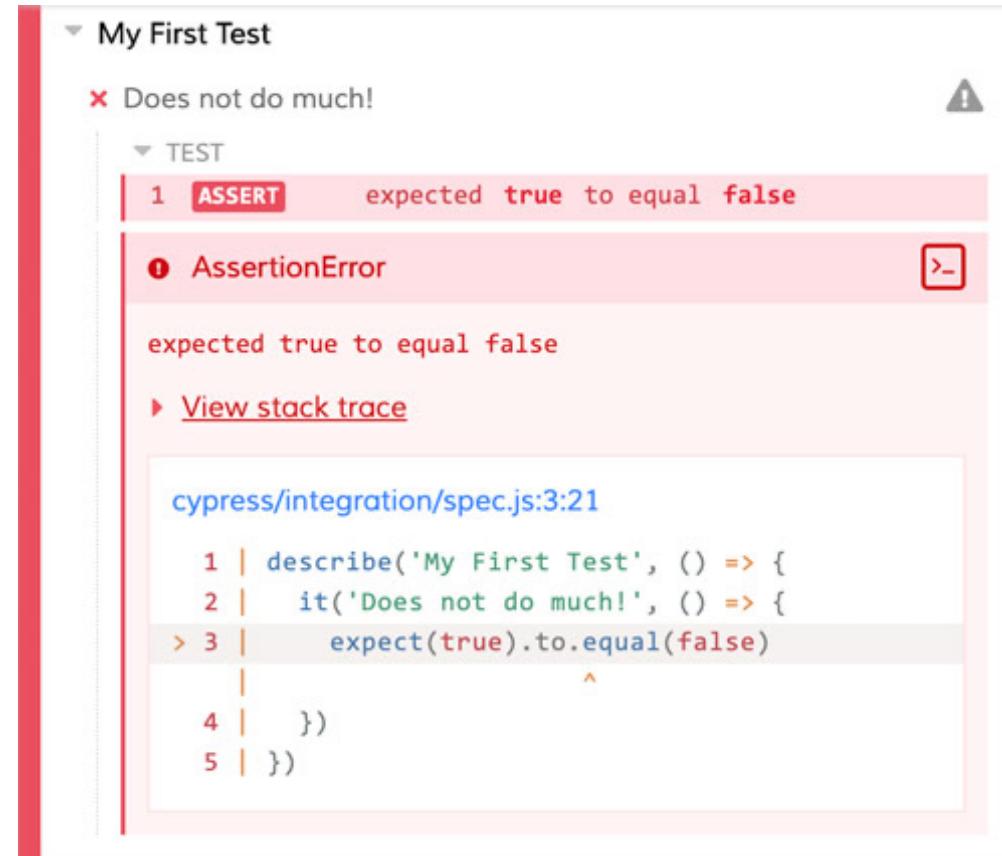
```
describe('My First Test', () => {
  it('Does not do much!', () => {
    expect(true).to.equal(true)
  })
})
```



# First failing test

iteratec

```
describe('My First Test', () => {
  it('Does not do much!', () => {
    expect(true).to.equal(false)
  })
})
```



# Getting started

iteratec

```
npm init
npm install cypress --save-dev
npm install @nrwl/cypress --save-dev
npm install cypress-multi-reporters --save-dev
npm install typescript --save-dev
```

```
"scripts": {
  "test": "cypress run --headed",
  "start": "cypress open"
},
```

```
cy.visit(url)
```

```
cy.get(selector)
```

```
.within(() => ...)
```

```
.then($element => ...)
```

```
.should(...)
```

```
.and(...)
```

```
.click()
```

```
.type(value)
```

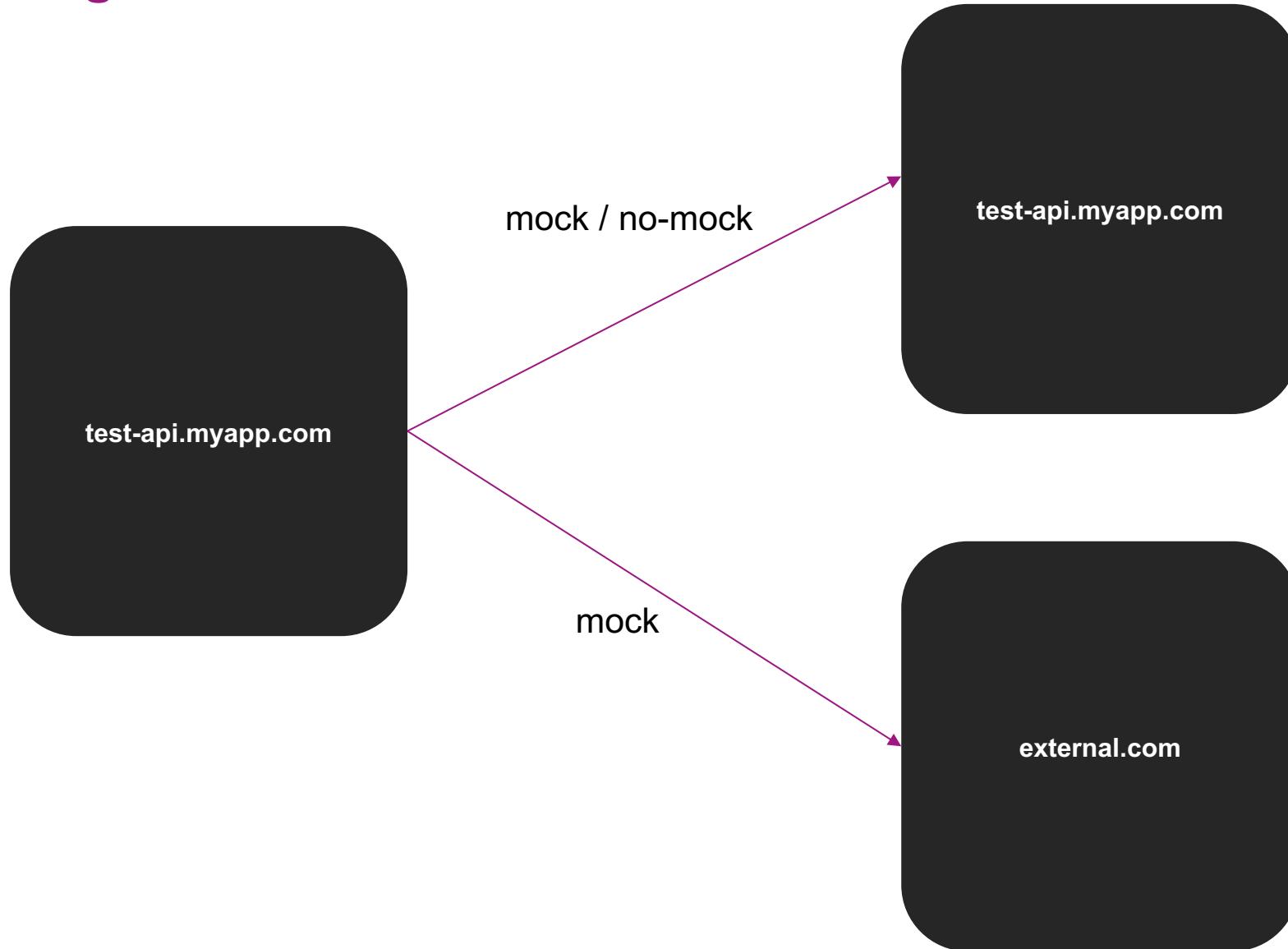
# mocking

# iteratec

```
cy.intercept(...)
```

```
cy.intercept('GET', '/complete/search*', req => {
  req.reply({
    statusCode: 200,
    fixture: 'search-iteratec.json'
  })
})
```

```
cy.intercept('GET', '/complete/search?q=iteratec*').as('iteratec-query')
// ... later on
cy.wait('@iteratec-query')
```



# Thanks!



<https://github.com/niewiemek/iteratec-cypress-pwr>

