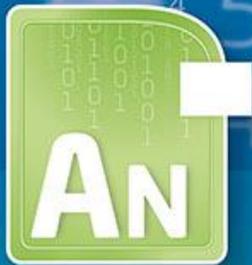


enabling the adaptive enterprise



Applications



Analytics



Services

UIs einfach und
umfassend testen

Eine Einführung in Codecept.js

About me



Fabian Neureiter



student of computer science at
University of Applied Sciences Gelsenkirchen



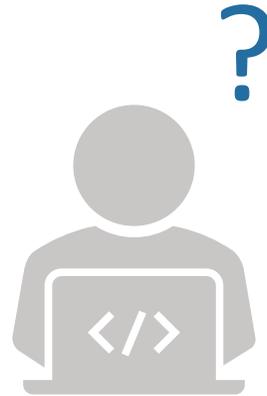
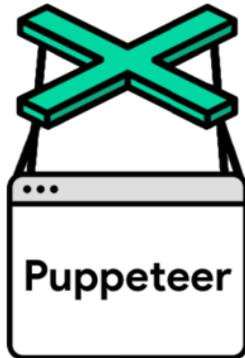
student trainee at MT AG since 2018



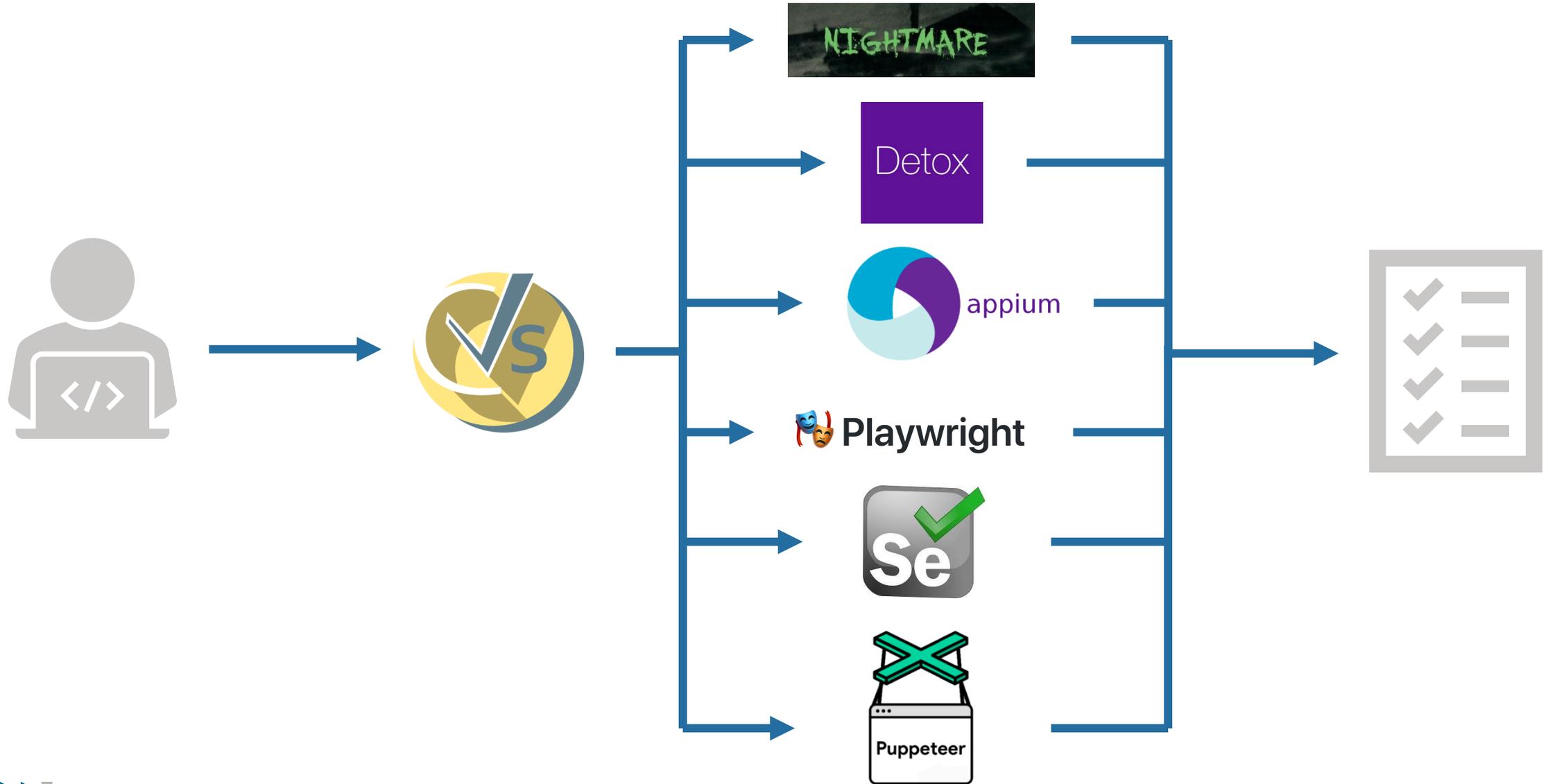
bachelor thesis: Automated
JavaScript Testing for Oracle APEX



Tools für automatisierbare Oberflächentests



One-framework-fits-all





- **Open Source**
- Ermöglicht End-to-End Testing
- JavaScript Framework
- Über NPM (Node Package Manager)
beziehbar
- Auf **automatisierte Akzeptanztests**
spezialisiert

Features – An BDD angelehnte Teststruktur

- GIVEN** ein Nutzer befindet sich auf der Login-Seite
- WHEN** er/sie Username- und Passwort-Felder korrekt ausfüllt und er den „Sign In“-Button betätigt
- THEN** wird er/sie zur Startseite der Anwendung weitergeleitet

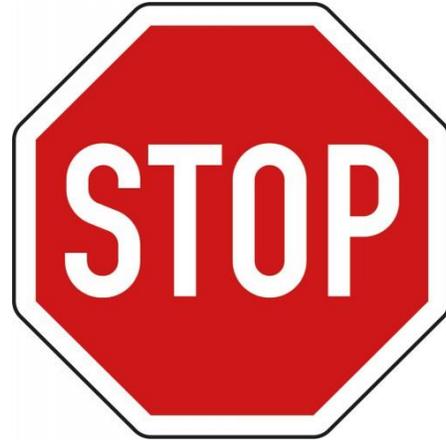
```
Feature('Authentication');  
  
Scenario('test login', (/) => {  
  
    I.amOnPage("https://apex.kai-donato.de/ords/f?p=128");  
  
    I.appendField('#P101_USERNAME', 'usr');  
    I.appendField('#P101_PASSWORD', 'pwd');  
    I.click('Sign In');  
  
    I.seeInCurrentUrl("f?p=128:1:");  
});
```

Features – „Sprechende Syntax“

Tests werden **aus der Sicht eines** (virtuellen) **Nutzers** geschrieben

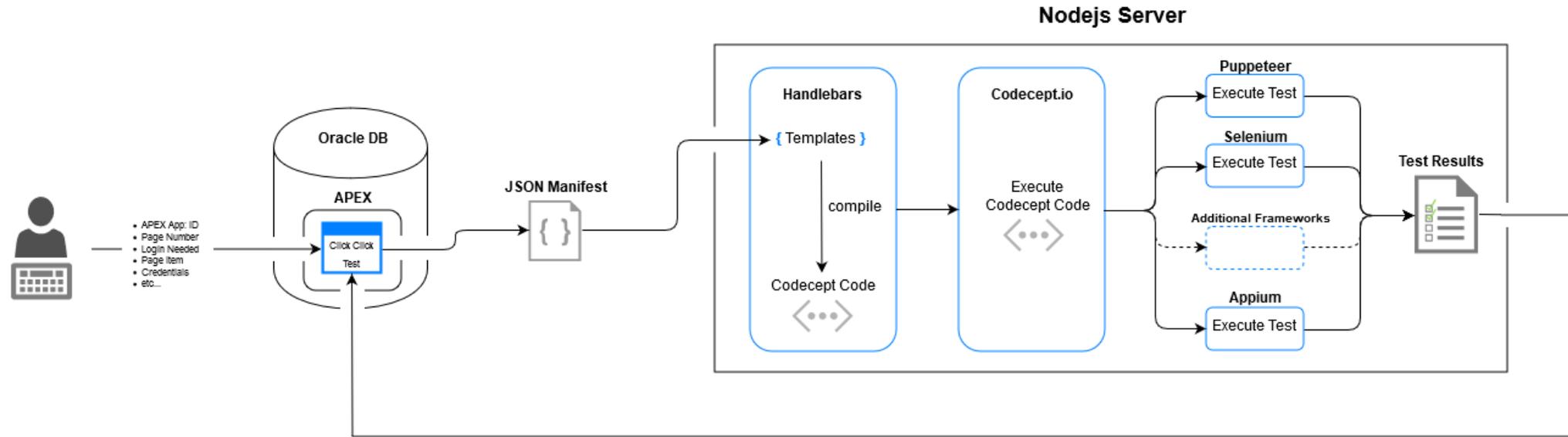
```
I.amOnPage("https://apex.kai-donato.de/ords/f?p=128");  
I.click('Sign In');  
[...]
```

- I-Objekt, welches den Nutzer repräsentiert
- Methodennamen, die Wahrnehmungen oder Tätigkeiten aus Sicht des Nutzers beschreiben



Demo Time

LCT – Codecept.js in der Praxis



The screenshot shows the LCT interface with a 'Test Queue' section. The table lists various test cases with their respective App IDs, JSON IDs, Project Names, and Case IDs. Each row has a green play button icon and a '+ Add' button.

App	JSON	Project Name	Case
173	>	Test_1	+ Add
103	>	Sample Database Application - Acceptance Tests	+ Add
103	>	SampleApp	+ Add
103	>	SampleAPP	+ Add
103	>	TestWorksheet	+ Add

Warum Codecept.js verwenden?

- + Leicht zu erlernen
 - Keine tiefen JavaScript-Kenntnisse nötig
 - **Eine** Syntax für alle Test-Engines
 - Einfache, selbstdokumentierende Syntax
- + Erweiterbar mit eigenen Helfern
- + Große, aktive Community
 - Hilfsbereit -> Slack
 - Ständige Pflege des Frameworks
 - Schnelle Integration von neuen Technologien



Alternative – Cypress.io

- Ebenfalls End-To-End Testing Framework
- Ebenfalls Multi-Engine-Unterstützung
- Sehr angenehme UI

Einführung im APEX-Kontext von
Hayden Hudson (Insum)

https://www.youtube.com/watch?v=QFzN_0soxiQ&t=2033s

The screenshot displays the Cypress.io test runner interface. The top bar shows the test status: 29 passed (green checkmarks), 2 failed (red X's), and 0 pending (grey circles). The test duration is 25.54 seconds. The browser address bar shows the URL `http://localhost:8888/#/` and the window size is 625 x 750 (97%).

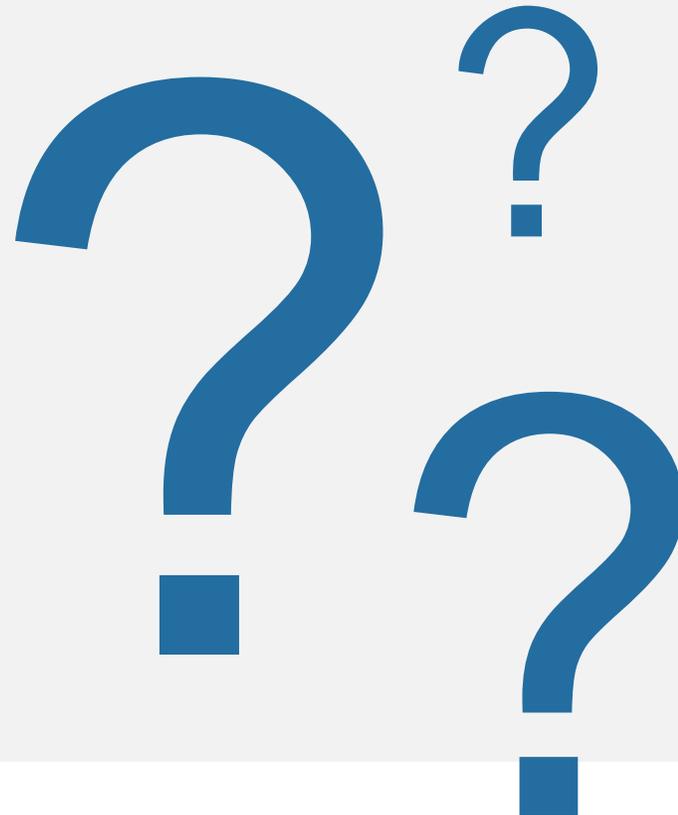
The left sidebar shows the test structure for 'TodoMVC' > 'New Todo'. The current test is 'should allow me to add a todo item', which is marked as passed (green checkmark). The test steps are:

- BEFORE EACH**
 - 1 VISIT `http://localhost:8888`
 - (NEW URL) `http://localhost:8888/#/`
- TEST**
 - 1 GET `.new-todo`
 - 2 - TYPE `buy some cheese`
 - 3 - TYPE `{enter}`
 - 4 GET `.todo-list li`
 - 5 - FIRST
 - 6 - FIND `label`
 - 7 - ASSERT `expected: <label> to contain: buy some cheese`

The right pane shows the application under test, 'todos', with a search bar containing 'What needs to be done?'. Below the search bar, there is a list of todos: 'buy some cheese' (checked) and 'feed the cat' (checked). At the bottom, it shows '0 items left' and filter buttons for 'All', 'Active', and 'Completed', along with a 'Clear completed' button.

Nützliche Informationen

- Codecept.js Website: <https://codecept.io/>
- Codecept.js Github: <https://github.com/codecept-js/CodeceptJS>
- Slack (!): <https://codeceptjs.slack.com/>



Kontakt



[@FabianNeureite1](https://twitter.com/FabianNeureite1)



Fabian.Neureiter@mt-ag.com



coming soon

Thank you for your attention!