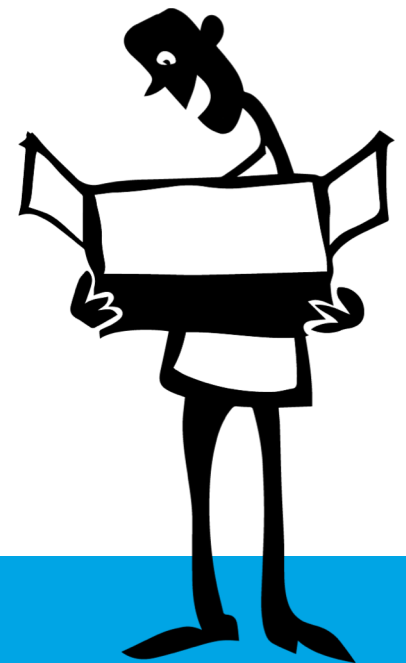


# Test Café for automation of functional UI tests

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# About Test Café

- Open source Node.js tool to automate end-to-end web testing: <https://github.com/DevExpress/testcafe>
- Usage:
  - Install  

```
npm install -g testcafe
```
  - Write test  

```
await t.click(Selector('.menu a').withText('Reasons to invest in us'))
```
  - Run in any browser  

```
testcafe chrome myTest.js
```
- Demo

# Web-based mobile app for HVAC drives

## Mobile/WebView/JS

### IDEA

Mobile application used for setting up and steering HVAC-type drives with usage of web-based application embedded in mobile device.

- Data Visualization, Data Configuration and Management, Reactive UI, Mobile.

### TECHNOLOGY



Vue.js



### SOLUTION



# Project showcase

- Integration testing of complex Web-hybrid mobile application
- DSL ready (business friendly) and AAA compliant (QA friendly) style of testing
- Integrated into CI/CD pipeline (DevOps friendly)
- Demo

```
Running tests in:  
- HeadlessChrome 67.0.3396 / Mac OS X 10.13.5  
  
Backups  
✓ Should present list of backups  
✓ Should present a backup details of non-compatible drive  
✓ Should present a backup details of compatible drive
```

# Test source code as documentation

```
test('Can edit backup details', async (t) => {
  await connectToDrive(t, 'ACH580');
  await goToFetchedBackupList(t);
  await openBackupDetails(t, 'ACH580 t1');

  await editBackupDetails(t, {
    name: 'ACH580 t1',
    newName: 'TestCafe Name',
    description: 'Test Backup 1',
    newDescription: 'TestCafe Description',
  });

  await expectBackupDetailsPage(t, {
    name: 'TestCafe Name',
    created: '2018-03-27 09:52:27',
    type: 'ACH580',
    fwVersion: 'AHVK2 v2.04.0.0',
    lpVersion: 'AHVD2 v2.04.0.0',
    restoreEnable: true,
    syncEnable: true,
  });
});
```

# Continuous integration - Travis

## Active Branches

✓ develop 1768 builds	# 3410 passed about 2 hours ago	1eb2aa3 GitHub	✓	✓	✓	✓	✓
✓ hotfix/ 17 builds	# 2692 passed 3 months ago	aa4591f Petri Julkunen	✓	✓	✓	✓	✓
✗ release/AREI-41 9 builds	# 2537 failed 4 months ago	ca92417 lukasz.laszkiwicz	✗	✗	✗	✗	✗
✓ hotfix/ 13 builds	# 2511 passed 4 months ago	518107e jslowikette	✓	✓	✓	✓	✗

```
985 > testcafe 'chrome:headless' src/js/test/integration/io --quarantine-mode --assertion-timeout 10000
986
987 Running tests in:
988 - HeadlessChrome 69.0.3497 / Linux 0.0.0
989
990 I/O Dashboard Extension menu
991 ✓ Extension menu items R04-5 and D01 should be visible when the extension
992 module is CMOD-01
993 ✓ Extension menu items R04-5 and F0 should be visible when D01 Frequency
994 output is selected and the extension module is CMOD-01
995 ✓ Extension menu items DI7-12, R04-5 and D01 should be visible when the
996 extension module is CHDI-01
997
998 I/O Dashboard menu
999 ✓ All menu items are visible
1000
```

<https://travis-ci.com/>

# Continuous integration - Jenkins



Startup assistant

- ✓ can enter assistant in First Start mode.
- ✓ can enter assistant in regular mode.
- ✓ can exit assistant without switching the start flag
- ✓ can exit assistant and toggle the start flag
- ✓ can go through the wizard in commission mode
- ✓ can go through the wizard in spin mode
- ✓ can go through the wizard in fieldbus detection/restore mode
- ✓ Should not have the Restore from backup option if no backups

831 passed (3h 02m 21s)

<https://jenkins.io/>

# Summary, Q&A

- The right tool for the quality driven teams
- Designed for developers to let them achieve tests coverage goals in a reasonable way
- Many improvements and simplifications targeting web UI
- Easily integrable with legacy chains and processes.







**Etteplan**