

Кросс-платформенная разработка

Лекция 3

Topics

- TDD & BDD
- Objects

Why Do We need tests?

TDD Steps

- Write Tests
- Check that tests are red/failing.
- Write simple implementation.
- Make sure tests are green.
- Refactor

Good Practices

Short Iterations

Small modules

Self-documented tests

Separate global setup from single test setup

BDD

Title

An explicit title.

Narrative

A short introductory section with the following structure:

- **As a**: the person or role who will benefit from the feature;
- **I want**: the feature;
- **so that**: the benefit or value of the feature.

Acceptance criteria

A description of each specific [scenario](#) of the narrative with the following structure:

- **Given**: the initial context at the beginning of the scenario, in one or more clauses;
- **When**: the event that triggers the scenario;
- **Then**: the expected outcome, in one or more clauses.

Example

```
pow(x, n)
```

```
describe("pow", function() {  
  it("raises to n-th power", function() {  
    assert.equal(pow(2, 3), 8);  
  });  
});
```

Before / After

```
before(() => alert("Testing started – before all tests"));  
after(() => alert("Testing finished – after all tests"));
```

```
beforeEach(() => alert("Before a test – enter a test"));  
afterEach(() => alert("After a test – exit a test"));
```


What else?

- In some cases we can generate tests
- Tests can be (Tests + Docs + Examples)
- Tests lead to better architecture
- Tests can give you false confidence

References

- <https://javascript.info/>
- <https://developer.mozilla.org/>
- <https://www.chaijs.com/>