# Utilisation de Behat dans Laravel

Behat is a PHP framework for BDD (Behavior-Driven Development). It allows you to write human-readable descriptions of your application's behavior and then automate the testing of those descriptions. Integrating Behat with Laravel can help ensure your application meets its specifications from the perspective of its stakeholders.

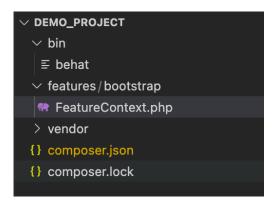
```
Then I should see the "div*block-sl
Then I should see the "div*block-m
Then I should see the "div*breadcr

Feature: Home Page

Scenario: View Homepage Features
Given I am on the homepage
Then I should see the "div*block-b
Then I should see the "div*block-w
Then I should see the "section*block

19 scenarios (19 passed)
86 steps (86 passed)
0m19.81s (11.43Mb)
```

# Setting Up Behat with Laravel



- 1. Install Behat
- 2. Configure Behat
- 3. Write Feature Files
- 4. Write Context Classes
- 5. Run Behat Tests

## 1. Install Behat

```
"require": {
    "php": >=5.5.9",
    "laravel/framework": "5.2.*",
    "quzzlenttp/guzzle": "^6.1",
    "laralib/l5scaffold": "dev-master",

    "behat/mink": "^1.7",
    "behat/behat": "^3.1",
    "behat/behat": "^3.1",
    "behat/mink-extension": "dev-master",
    "laracasts/behat-laravel-extension": "^1.0",
    "behat/mink-selenium2-driver": "^1.3",
    "league/flysystem-aws-s3-v3": "^1.0",
    "laracasts/utilities": "~2.0"
```

First, install Behat and its dependencies using Composer:

```
composer require --dev behat/behat
```

Then, initialize Behat:

```
vendor/bin/behat --init
```

This command will create the initial directory structure for Behat in your project.

# 2. Configure Behat

```
default:
    suites:
        home_ui:
            paths: [ *paths.base*/features/home]
            contexts: [ HomePageUiContext ]

extensions:
        Laracasts\Behat:
            env_path: .env.behat
        Behat\MinkExtension:
            default_session: laravel
            base_url: https://recipes.dev
            laravel: ~
            selenium2:
            wd_host: "http://selenium.dev:4444/wd/hub"
            browser_name: chrome

travis:
    extensions:
    Laracasts\Behat:
        env_path: .env.travis
    Behat\MinkExtension:
        base_url: http://localhost:8000
        default_session: laravel
        laravel: ~
        selenium2:
        wd_host: "http://127.0.0.1:4444/wd/hub"
        browser_name: chrome
```

Behat uses a configuration file (behat.yml) to define settings for your tests. Create this file in the root of your Laravel project:

## default:

suites:

This configuration sets up Behat with the Mink extension, which allows browser interaction. Adjust the base\_url to match your local development environment.

#### 3. Write Feature Files



Feature files describe the behavior of your application in Gherkin syntax. Create a directory for your feature files (features) and add a new feature file (login.feature):

```
Feature: User Login
In order to use the application
As a registered user
I want to log in to my account

Scenario: Successful login
Given I am a registered user with email "john@example.com" and password "password I go to the login page
And I fill in "email" with "john@example.com"
And I fill in "password" with "password"
And I press "Login"
```

Then I should be redirected to the dashboard And I should see "Welcome, John Doe"

#### 4. Write Context Classes

Context classes contain the PHP code that implements the steps in your feature files. Behat generated a FeatureContext.php file when you ran the --init command. Open this file and add the necessary step definitions:

```
use Behat\Behat\Context\ClosuredContextInterface,
    Behat\Behat\Context\TranslatedContextInterface,
    Behat\Behat\Context\Bhat\ContextInterface,
    Behat\Behat\Context\Behat\Context,
    Behat\Behat\Exception\PendingException;
use Behat\Gherkin\Node\PystringNode,
    Behat\Gherkin\Node\TableNode;

use Behat\MinkExtension\Context\MinkContext;

/**
    * Features context.
    */
class FeatureContext extends MinkContext
{
}
```

```
<?php
```

```
/**

/**

* @Then I should be redirected to the dashboard

*/

public function iShouldBeRedirectedToTheDashboard()
{

$this->assertPageAddress('/dashboard');
}

/**

* @Then I should see :text

*/

public function iShouldSee($text)
{

$this->assertPageContainsText($text);
}
```

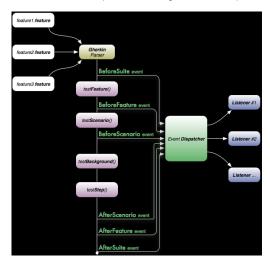
### 5. Run Behat Tests

Before running your tests, ensure your Laravel application is running. Then, execute Behat:

vendor/bin/behat

# **Example Complete Workflow**

- 1. Write a Feature File: Describe the behavior in Gherkin syntax.
- 2. **Implement Step Definitions**: Add methods to the context class to match each step.
- 3. Run Behat: Execute Behat to run your tests.
- 4. **Develop and Refactor**: Implement the necessary functionality in Laravel, refactor your code, and ensure all tests pass.



## Tips for Integration

- Database Transactions: Use Laravel's DatabaseTransactions trait in your context class to ensure each scenario runs in isolation.
- **Browser Testing**: For more complex browser interactions, consider using Selenium with Mink.
- Mocking and Stubbing: Use Laravel's testing helpers to mock and stub external services.



# Example behat.yml with Laravel Specific Configurations

## Conclusion

By following these steps and examples, you can effectively integrate Behat into your Laravel project, enabling you to practice BDD and ensure your application behaves as expected from the user's perspective.