

Acceptance & Integration Testing Using Behat

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BA Picture





The Problem

Acceptance Testing

Integration Testing

Behat

What Does It Test?

Scripts

API's

Web Pages

Models

Anatomy Of A Behat Test





STEPS
HEARTBEAT /
TRAGEDY



Feature Files

Feature: Home Page

When visiting the PHPCon site

As a site visitor

I need to be able to see what conferences
are coming up

Scenarios

Scenario: Get all conferences

Given there is conference data in the database

When I go to the homepage

Then I should see three conferences in a table

Scenarios

Given
(Some Context)

When
(Some Event)

Then
(The Outcome)

Example

Feature: ConferenceService class

In order to display conferences on
PHPCon site

As a developer

I need to be able to retrieve an array of
conference objects.

Scenario: Get all conferences

Given there is conference data in the database

When I use the findConferences method

Then I should get a array of three conferences

Example

Feature: Home Page

When visiting the PHPCon site

As a site visitor

I need to be able to see what conferences
are coming up

Scenario: Get all conferences

Given there is conference data in the database

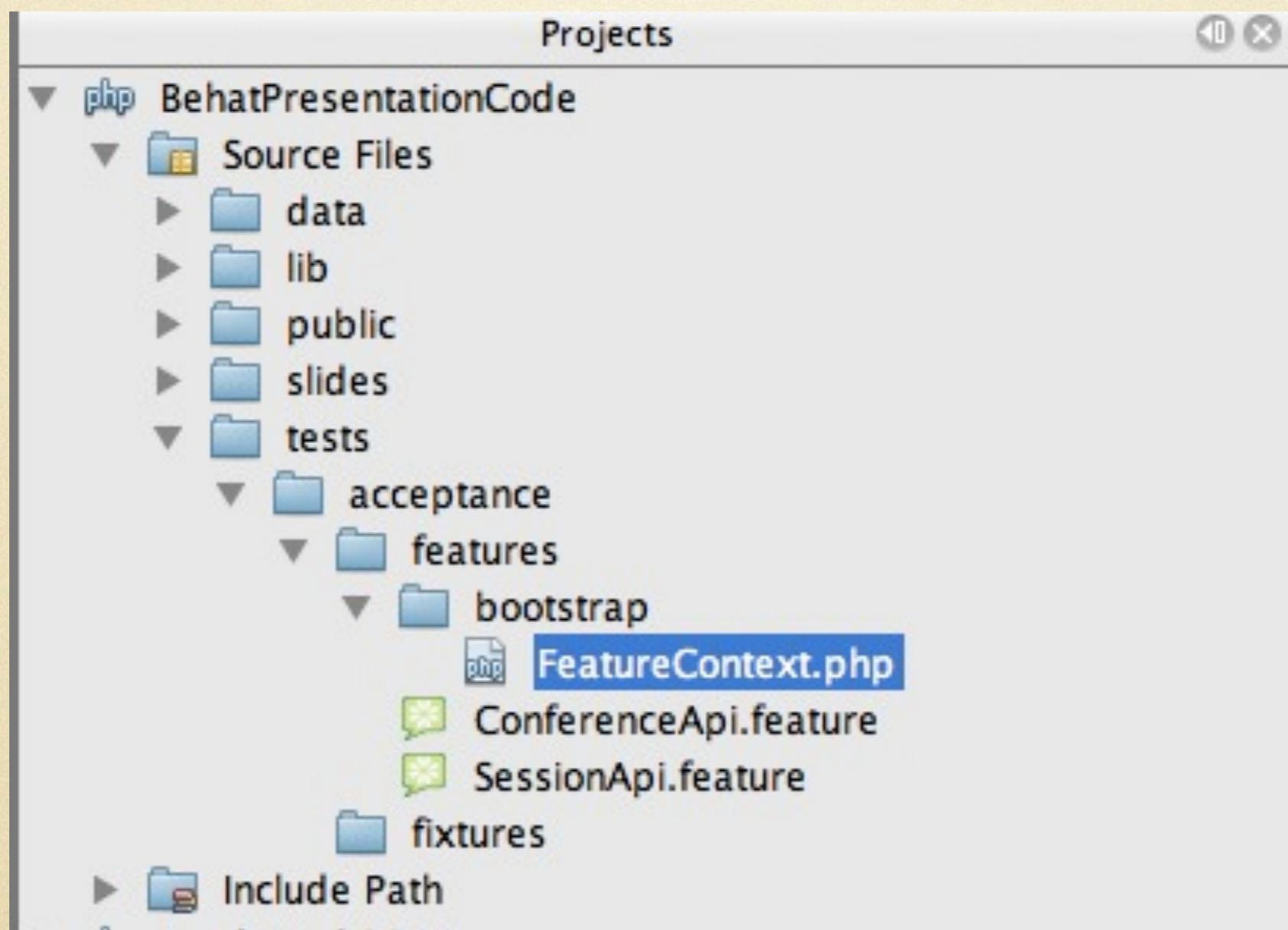
When I go to the homepage

Then I should see three conferences in a table

Writing Behat Tests

```
$ben > cd /path/to/projects/tests  
$ben > behat --init
```

Writing Behat Tests



Example

Feature: ConferenceService class

In order to display conferences on
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As a developer

I need to be able to retrieve an array of
conference objects.

Scenario: Get all conferences

Given there is conference data in the database

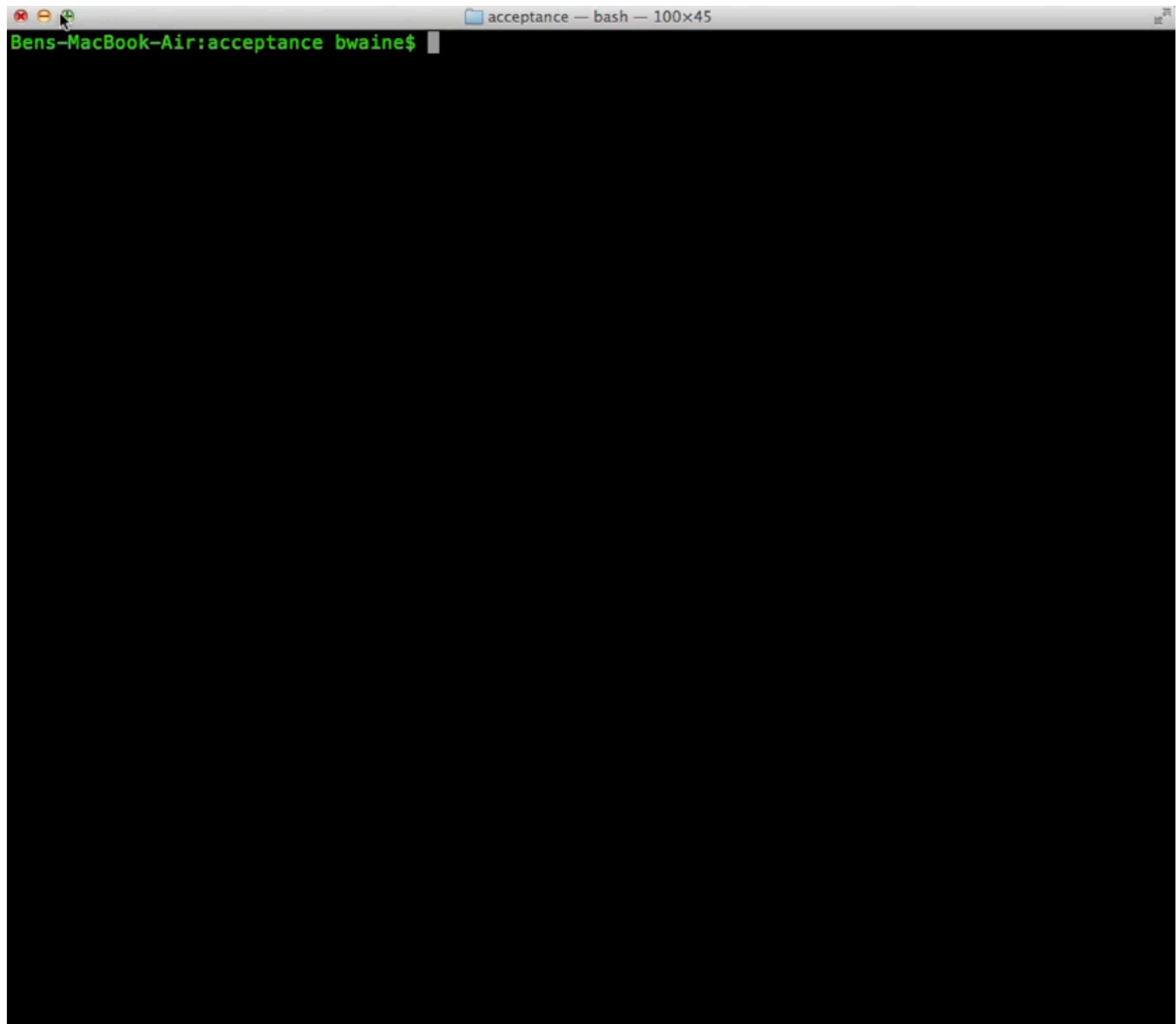
When I use the findConferences method

Then I should get a array of three conferences

/ Everybody Stand Back /

Behat Knows Regular Expressions

Bens-MacBook-Air:BehatPresentationCode bwaine\$



Fill in the Feature Context File

```
public function __construct(array $parameters)
{
    $params = array(
        'user' => $parameters['database']['username'],
        'password' => $parameters['database']['password'],
        'driver' => $parameters['database']['driver'],
        'path' => $parameters['database']['dbPath'],
    );

    $con = \Doctrine\DBAL\DriverManager::getConnection($params);

    $confMapper = new \PHPCon\Conference\Mapper($con);
    $confService = new \PHPCon\Conference\Service($confMapper);

    $this->service = $confService;
}
```

Fill in the Feature Context File

```
/**  
 * @Given /^there is conference data in the database$/  
 */  
public function thereIsConferneceDataInTheDatabase()  
{  
    $fileName = self::$dataDir . 'sample-conf-session-data.sql';  
    self::executeQueriesInFile($fileName);  
}
```

Fill in the Feature Context File

```
/**  
 * @When /^I use the findConferences method$/  
 */  
public function iUseTheFindConferencesMethod()  
{  
    $this->result = $this->service->findConferences();  
}
```

Fill in the Feature Context File

```
/**  
 * @Then /^I should get a array of (\d+) conferences$/  
 */  
public function iShouldGetAnArrayOfConferences($numberOfCons)  
{  
    assertInternalType('array', $this->result);  
    assertEquals($numberOfCons, count($this->result));  
}
```

Fill in the Feature Context File

```
/**  
 * @Then /^it should contain the conference "([^\"]*)"$/  
 */  
public function itShouldContainTheConference($confName)  
{  
    $names = array();  
  
    foreach($this->result as $conf)  
    {  
        $names[$conf->getName()] = true;  
    }  
  
    if (!array_key_exists($confName, $names))  
    {  
        throw new \Exception("Conference " . $confName . " not found");  
    }  
}
```

Failing Test

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Add some application code.....

Passing Test!

Bens-MacBook-Air:acceptance bwaine\$ behat

What about the UI?

Mink

Example

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Example

Install Mink Via Github / Pear

Extend Mink Context

Use Bundled steps to create higher level abstractions.

Data

SQL Fixture

Phabric

Phabricator Example