

```

1  <?php
2
3
4  use PHPUnit\Framework\Assert;
5  use PHPUnit\Framework\TestCase;
6  require 'functions.php';
7
8
9  /**
10   * Class functionsTest
11   */
12  class functionsTest extends TestCase
13  {
14      /**
15       * Tests the call_api function
16       */
17      public function test_call_api(): void
18      {
19          $method_post = 'POST';
20          $method_get = 'GET';
21          $method_different = '1234';
22          $wc_order_test_request = '';
23          $backend_url = 'https://backend.demo.taler.net';
24          $api_key = 'ApiKey sandbox';
25
26          try {
27              $wc_order_test_request = 'wc_test_' . random_int(0, 1000);
28          } catch (Exception $e) {
29          }
30          $body_request_1 = array(
31              'order' => array(
32                  'amount' => 'KUDOS:0.1',
33                  'fulfillment_url' => 'http://gnutaler.hofmd.ch',
34                  'summary' => 'Test_order',
35                  'order_id' => $wc_order_test_request,
36              )
37          );
38          $purpose_1 = 'create_order';
39
40          $body_request_2 = $wc_order_test_request;
41          $purpose_2 = 'confirm_payment';
42
43          $result_create_order = call_api( $method_post, $backend_url,
44              json_encode($body_request_1), $purpose_1, $api_key );
45          $result_confirm_payment = call_api( $method_get, $backend_url,
46              $body_request_2, $purpose_2, $api_key );
47          $result_verify_backend_url = call_api( $method_get, $backend_url, '', '',
48              $api_key );
49          $result_method_different = call_api( $method_different, $backend_url,
50              json_encode($body_request_1), $purpose_1, $api_key );
51
52          Assert::assertTrue($result_create_order['result']);
53          Assert::assertEquals($wc_order_test_request,
54              json_decode($result_create_order['message'], true)['order_id']);
55          Assert::assertTrue($result_confirm_payment['result']);
56          Assert::assertEquals(false, json_decode($result_confirm_payment['message'],
57              true)['paid']);
58          Assert::assertTrue($result_verify_backend_url['result']);
59          Assert::assertEquals('Hello, I\'m a merchant\'s Taler backend. This HTTP
60              server is not for humans.', trim($result_verify_backend_url['message']));
61          Assert::assertFalse($result_method_different['result']);
62          Assert::assertEquals('Bad request', $result_method_different['message']);
63      }
64
65      /**
66       * Tests the create_api_url function
67       */
68      public function test_create_api_url(): void
69      {
70          $url_test = 'https://backend.demo.taler.net';
71          $wc_test_order = '';

```

```

66     try {
67         $wc_test_order = 'wc_test_' . random_int(0, 1000);
68     } catch (Exception $e) {
69     }
70     $purpose_create_order = 'create_order';
71     $purpose_confirm_payment = 'confirm_payment';
72     $purpose_create_refund = 'create_refund';
73
74     $create_order_url = create_api_url($url_test, $purpose_create_order, '');
75     $confirm_payment_url = create_api_url($url_test, $purpose_confirm_payment,
76     $wc_test_order);
77     $create_refund_url = create_api_url($url_test, $purpose_create_refund, '');
78
79     Assert::assertEquals('https://backend.demo.taler.net/order',
80     $create_order_url);
81
82     Assert::assertEquals('https://backend.demo.taler.net/check-payment?order_id='
83     . $wc_test_order, $confirm_payment_url);
84     Assert::assertEquals('https://backend.demo.taler.net/refund',
85     $create_refund_url);
86 }
87
88 /**
89  * Tests the curl_error_handling function with the http status code 200
90  */
91 public function test_curl_error_handling_code_200(): void
92 {
93     $api_key = 'ApiKey sandbox';
94     $test_url = 'https://backend.demo.taler.net';
95
96     $curl_error_message_array = call_api('GET', $test_url, '', '', $api_key);
97
98     Assert::assertTrue($curl_error_message_array['result']);
99     Assert::assertEquals(200, $curl_error_message_array['http_code']);
100 }
101
102 /**
103  * Tests the curl_error_handling function with the http status code 400
104  */
105 public function test_curl_error_handling_code_400(): void
106 {
107     $api_key = 'ApiKey sandbox';
108     $api_key_wrong = 'ApiKey ____***fèfèfèèè';
109     $test_url = 'https://backend.demo.taler.net';
110     $test_url_wrong = 'https://backend.demo.taler.net/test_if_this_exits';
111     $body = json_encode(array(
112         'order' => array(
113             'wrong_field' => 'Wrong value',
114         )
115     ));
116
117     $curl_error_message_array_400 = call_api('POST', $test_url, $body,
118     'create_order', $api_key);
119     $curl_error_message_array_401 = call_api('GET', $test_url, '', '',
120     $api_key_wrong);
121     $curl_error_message_array_403 = call_api('GET', 'https://httpstat.us/403',
122     '', '', '');
123     $curl_error_message_array_404 = call_api('GET', $test_url_wrong, '', '',
124     $api_key);
125
126     Assert::assertFalse($curl_error_message_array_400['result']);
127     Assert::assertEquals(400, $curl_error_message_array_400['http_code']);
128     Assert::assertFalse($curl_error_message_array_401['result']);
129     Assert::assertEquals(401, $curl_error_message_array_401['http_code']);
130     Assert::assertFalse($curl_error_message_array_403['result']);
131     Assert::assertEquals(403, $curl_error_message_array_403['http_code']);
132     Assert::assertFalse($curl_error_message_array_404['result']);
133     Assert::assertEquals(404, $curl_error_message_array_404['http_code']);
134 }

```

```
129  /**
130   * Tests the curl_error_handling function with the http status code 500
131   */
132  public function test_curl_error_handling_code_500(): void
133  {
134      $api_key = 'ApiKey sandbox';
135      $test_url = 'https://backend.demo.taler.net';
136      $test_url_500 = 'https://httpstat.us/500';
137      $test_url_502 = 'https://httpstat.us/502';
138      $test_url_503 = 'https://httpstat.us/503';
139      $test_url_504 = 'https://httpstat.us/504';
140
141      $curl_error_message_array_500 = call_api('GET', $test_url_500, '', '',
142      $api_key);
143      $curl_error_message_array_502 = call_api('GET', $test_url_502, '', '',
144      $api_key);
145      $curl_error_message_array_503 = call_api('GET', $test_url_503, '', '',
146      $api_key);
147      $curl_error_message_array_504 = call_api('GET', $test_url_504, '', '',
148      $api_key);
149
150      Assert::assertFalse($curl_error_message_array_500['result']);
151      Assert::assertEquals(500, $curl_error_message_array_500['http_code']);
152      Assert::assertFalse($curl_error_message_array_502['result']);
153      Assert::assertEquals(502, $curl_error_message_array_502['http_code']);
154      Assert::assertFalse($curl_error_message_array_503['result']);
155      Assert::assertEquals(503, $curl_error_message_array_503['http_code']);
156      Assert::assertFalse($curl_error_message_array_504['result']);
157      Assert::assertEquals(504, $curl_error_message_array_504['http_code']);
158  }
```