

The Go Programming Language

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Source file `src/chaincode/chaincode_ad/chaincode_ad_test.go`

Documentation: [chaincode/chaincode_ad](#)

```
1 package main
2
3 import (
4     "fmt"
5     "testing"
6
7     "github.com/hyperledger/fabric/core/chaincode/shim"
8 )
9
10 func checkInit(t *testing.T, stub *shim.MockStub, args [][]byte) {
11     res := stub.MockInit("1", args)
12     if res.Status != shim.OK {
13         fmt.Println("Init failed", string(res.Message))
14         t.Fail()
15     }
16 }
17
18 func checkInvoke(t *testing.T, stub *shim.MockStub, args [][]byte) {
19     res := stub.MockInvoke("1", args)
20     if res.Status != shim.OK {
```

```
21             fmt.Println("Invoke", args, "failed", string(res.Message))
22             t.Fail()
23         }
24     }
25
26     func checkInvokeFail(t *testing.T, stub *shim.MockStub, args [][]byte) {
27         res := stub.MockInvoke("1", args)
28         if res.Status == shim.OK {
29             fmt.Println("Invoke", args, "should fail but did not", string(res.Payload))
30             t.Fail()
31         }
32     }
33
34     func checkInvokeResponse(t *testing.T, stub *shim.MockStub, args [][]byte, expectedPayload
string) {
35         res := stub.MockInvoke("1", args)
36         if res.Status != shim.OK {
37             fmt.Println("Invoke", args, "failed", string(res.Message))
38             t.Fail()
39         }
40         if string(res.Payload) != expectedPayload {
41             fmt.Println("Expected payload:", expectedPayload)
42             fmt.Println("Instead got this:", string(res.Payload))
43             t.Fail()
44         }
45     }
46
47     func checkInvokeResponseFail(t *testing.T, stub *shim.MockStub, args [][]byte, expectedMessage
string) {
48         res := stub.MockInvoke("1", args)
49         if res.Status == shim.OK {
```

```
50         fmt.Println("Invoke", args, "should fail")
51         fmt.Println("Instead got payload:", string(res.Payload))
52         t.Fail()
53     }
54     if res.Message != expectedMessage {
55         fmt.Println("Expected message:", expectedMessage)
56         fmt.Println("Instead got this:", res.Message)
57         t.Fail()
58     }
59 }
60
61 func Test_Init(t *testing.T) {
62     cc := new(Chaincode)
63     stub := shim.NewMockStub("init_test", cc)
64
65     // Init should always success
66     checkInit(t, stub, [][]byte{[]byte("1")})
67 }
68
69 func Test_InvokeFail(t *testing.T) {
70     cc := new(Chaincode)
71     stub := shim.NewMockStub("invoke_fail_test", cc)
72     args := [][]byte{[]byte("NoFunction"), []byte("test")}
73     expectedMessage := "Received unknown function invocation"
74     checkInvokeResponseFail(t, stub, args, expectedMessage)
75 }
76
77 func Test_createDataEntryAd(t *testing.T) {
78     cc := new(Chaincode)
79     stub := shim.NewMockStub("init_test", cc)
80 }
```

```
81      // Init
82      checkInit(t, stub, [][]byte{[]byte("20")})
83      // create test data entry ad
84      args := [][]byte{[]byte("createDataEntryAd"),
85          []byte("1"), []byte("test_data"), []byte("???"), []byte("Unit"),
86          []byte("20181212152030"), []byte("pub_name"), []byte("1"), []byte("2")}
87      checkInvokeResponse(t, stub, args, "")
88
89      // Check if it is in the state
90      args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1"), []byte("20181212152030")}
91      expectedPayload := "{\"RecordType\":\"DATA_ENTRY_AD\",\"DataEntryID\":\"1\"\" +
92          "\",\"Description\":\"test_data\",\"Value\":\"???\",\"Unit\":\"Unit\", \" +
93          \"\"CreationTime\":\"20181212152030\",\"Publisher\":\"pub_name\", \" +
94          \"\"Price\":1,\"AccountNo\":\"2\"}"
95      checkInvokeResponse(t, stub, args, expectedPayload)
96
97      // create test data entry ad that has the same ID and creationTime Shouldt fail
98      args = [][]byte{[]byte("createDataEntryAd"),
99          []byte("1"), []byte("test_data"), []byte("50"), []byte("Unit"),
100          []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
101      expectedMessage := "This data entry already exists: 1~20181212152030"
102      checkInvokeResponseFail(t, stub, args, expectedMessage)
103
104      // It should fail to createDataEntryAd that have one empty arg
105      args = [][]byte{[]byte("createDataEntryAd"),
106          []byte(""), []byte("test_data"), []byte("???"), []byte("Unit"),
107          []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
108      // it should not save to the state and it should fail
109      expectedMessage = "Argument at position 1 must be a non-empty string"
110      checkInvokeResponseFail(t, stub, args, expectedMessage)
111
```

```
112 // It should fail to createDataEntryAd that have one empty arg
113 args = [][]byte{[]byte("createDataEntryAd"),
114     []byte("2"), []byte(""), []byte("???"), []byte("Unit"),
115     []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
116 // it should not save to the state and it should fail
117 expectedMessage = "Argument at position 2 must be a non-empty string"
118 checkInvokeResponseFail(t, stub, args, expectedMessage)
119
120 // It should fail to createDataEntryAd that have one empty arg
121 args = [][]byte{[]byte("createDataEntryAd"),
122     []byte("2"), []byte("test_data"), []byte(""), []byte("Unit"),
123     []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
124 // it should not save to the state and it should fail
125 expectedMessage = "Argument at position 3 must be a non-empty string"
126 checkInvokeResponseFail(t, stub, args, expectedMessage)
127
128 // It should fail to createDataEntryAd that have one empty arg
129 args = [][]byte{[]byte("createDataEntryAd"),
130     []byte("2"), []byte("test_data"), []byte("???"), []byte(""),
131     []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
132 // it should not save to the state and it should fail
133 expectedMessage = "Argument at position 4 must be a non-empty string"
134 checkInvokeResponseFail(t, stub, args, expectedMessage)
135
136 // It should fail to createDataEntryAd that have one empty arg
137 args = [][]byte{[]byte("createDataEntryAd"),
138     []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
139     []byte(""), []byte("pub_name"), []byte("10"), []byte("2")}
140 // it should not save to the state and it should fail
141 expectedMessage = "Argument at position 5 must be a non-empty string"
142 checkInvokeResponseFail(t, stub, args, expectedMessage)
```

```
143
144 // It should fail to createDataEntryAd that have one empty arg
145 args = [][]byte{[]byte("createDataEntryAd"),
146               []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
147               []byte("20181212152030"), []byte(""), []byte("10"), []byte("2")}
148 // it should not save to the state and it should fail
149 expectedMessage = "Argument at position 6 must be a non-empty string"
150 checkInvokeResponseFail(t, stub, args, expectedMessage)
151
152 // It should fail to createDataEntryAd that have one empty arg
153 args = [][]byte{[]byte("createDataEntryAd"),
154               []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
155               []byte("20181212152030"), []byte("pub_name"), []byte(""), []byte("2")}
156 // it should not save to the state and it should fail
157 expectedMessage = "Argument at position 7 must be a non-empty string"
158 checkInvokeResponseFail(t, stub, args, expectedMessage)
159
160 // It should fail to createDataEntryAd that have one empty arg
161 args = [][]byte{[]byte("createDataEntryAd"),
162               []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
163               []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("")}
164 // it should not save to the state and it should fail
165 expectedMessage = "Argument at position 8 must be a non-empty string"
166 checkInvokeResponseFail(t, stub, args, expectedMessage)
167
168 // It should fail to createDataEntryAd that have less than 8 args
169 args = [][]byte{[]byte("createDataEntryAd"),
170               []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
171               []byte("20181212152030"), []byte("pub_name"), []byte("10")}
172 // it should not save to the state and it should fail
173 expectedMessage = "Incorrect number of arguments. Expecting 8"
```

```
174         checkInvokeResponseFail(t, stub, args, expectedMessage)
175
176         // It should fail to createDataEntryAd that have more than 8 args
177         args = [][]byte{[]byte("createDataEntryAd"),
178             []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
179             []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2"),
[]byte("2")}
180         // it should not save to the state and it should fail
181         expectedMessage = "Incorrect number of arguments. Expecting 8"
182         checkInvokeResponseFail(t, stub, args, expectedMessage)
183
184         // It should fail to createDataEntryAd for negative price
185         args = [][]byte{[]byte("createDataEntryAd"),
186             []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
187             []byte("20181212152030"), []byte("pub_name"), []byte("-10"), []byte("2")}
188         // it should not save to the state and it should fail
189         expectedMessage = "Price cannot be negative number."
190         checkInvokeResponseFail(t, stub, args, expectedMessage)
191
192         // It should fail to createDataEntryAd for negative creationTime
193         args = [][]byte{[]byte("createDataEntryAd"),
194             []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
195             []byte("-20181212152030"), []byte("pub_name"), []byte("-10"), []byte("2")}
196         // it should not save to the state and it should fail
197         expectedMessage = "Expecting positiv integer or zero as creation time."
198         checkInvokeResponseFail(t, stub, args, expectedMessage)
199
200         // It should fail to createDataEntryAd if creationTime is not uint
201         args = [][]byte{[]byte("createDataEntryAd"),
202             []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
203             []byte("lol"), []byte("pub_name"), []byte("-10"), []byte("2")}
```

```
204         // it should not save to the state and it should fail
205         expectedMessage = "Expecting positiv integer or zero as creation time."
206         checkInvokeResponseFail(t, stub, args, expectedMessage)
207
208         // It should fail to createDataEntryAd if price is not int
209         args = [][]byte{[]byte("createDataEntryAd"),
210             []byte("2"), []byte("test_data"), []byte("???"), []byte("Unit"),
211             []byte("20181212152030"), []byte("pub_name"), []byte("lol"), []byte("2")}
212         // it should not save to the state and it should fail
213         expectedMessage = "Expecting positiv integer or zero as price."
214         checkInvokeResponseFail(t, stub, args, expectedMessage)
215     }
216
217     func Test_getDataAdByIDAndTime(t *testing.T) {
218         cc := new(Chaincode)
219         stub := shim.NewMockStub("init_test", cc)
220
221         // Init
222         checkInit(t, stub, [][]byte{[]byte("1")})
223         // create test data entry ad
224         args := [][]byte{[]byte("createDataEntryAd"),
225             []byte("1"), []byte("test_data"), []byte("10"), []byte("Unit"),
226             []byte("20181212152030"), []byte("pub_name"), []byte("0"), []byte("2")}
227         // it should save to the state
228         checkInvokeResponse(t, stub, args, "")
229
230         expectedPayload := "{\"RecordType\":\"DATA_ENTRY_AD\", \"DataEntryID\":\"1\" \" +
231             \", \"Description\":\"test_data\", \"Value\":\"10\", \"Unit\":\"Unit\", \" +
232             \"CreationTime\":\"20181212152030\", \"Publisher\":\"pub_name\", \" +
233             \"Price\":0, \"AccountNo\":\"2\"}"
234     }
```



```
235 // It should get the same expected payload
236 args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1"), []byte("20181212152030")}
237 checkInvokeResponse(t, stub, args, expectedPayload)
238
239 /*
240 // This cannot be tested because of the MockStub implementation limitations
241 // It should fail to get ID that is not in the ledger
242 args = [][]byte{[]byte("getDataAdByID"),
243               []byte("2")}
244 checkInvokeFail(t, stub, args)
245 */
246
247 // It should fail to getDataAdByIDAndTime if arg is empty string
248 args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte(""), []byte("20181212152030")}
249 expectedPayload = "Argument at position 1 must be a non-empty string"
250 checkInvokeResponseFail(t, stub, args, expectedPayload)
251
252 // It should fail to getDataAdByIDAndTime if arg is empty string
253 args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1"), []byte("")}
254 expectedPayload = "Argument at position 2 must be a non-empty string"
255 checkInvokeResponseFail(t, stub, args, expectedPayload)
256
257 // It should fail to getDataAdByIDAndTime if less than 2 args provided
258 args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1")}
259 expectedPayload = "Incorrect number of arguments. Expecting data entry Id and
creationTime"
260 checkInvokeResponseFail(t, stub, args, expectedPayload)
261
262 // It should fail to getDataAdByIDAndTime if more than 2 args provided
263 args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1"), []byte("20181212152030"),
[]byte("2")}
```

```
264         expectedPayload = "Incorrect number of arguments. Expecting data entry Id and
creationTime"
265         checkInvokeResponseFail(t, stub, args, expectedPayload)
266
267         // It should fail to getDataAdByIDAndTime if creationTime is not uint
268         args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1"), []byte("-20181212152030")}
269         expectedPayload = "Expecting positiv integer or zero as creation time."
270         checkInvokeResponseFail(t, stub, args, expectedPayload)
271
272         // It should fail to getDataAdByIDAndTime if creationTime is not uint
273         args = [][]byte{[]byte("getDataAdByIDAndTime"), []byte("1"), []byte("lol")}
274         expectedPayload = "Expecting positiv integer or zero as creation time."
275         checkInvokeResponseFail(t, stub, args, expectedPayload)
276
277     }
278
279     func Test_getDataAdByPub(t *testing.T) {
280         cc := new(Chaincode)
281         stub := shim.NewMockStub("init_test", cc)
282
283         // Init
284         checkInit(t, stub, [][]byte{[]byte("1")})
285         // create test data entry ad
286         args := [][]byte{[]byte("createDataEntryAd"),
287             []byte("1"), []byte("test_data"), []byte("???"), []byte("Unit"),
288             []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
289         // it should save to the state
290         checkInvoke(t, stub, args)
291         expectedPayload := "{\"RecordType\":\"DATA_ENTRY_AD\", \"DataEntryID\":\"1\"\" +
292             \"\", \"Description\":\"test_data\", \"Value\":\"???\", \"Unit\":\"Unit\", \"\" +
293             \"CreationTime\":\"20181212152030\", \"Publisher\":\"pub_name\", \"\" +
```

```
294         "\"Price\":10,\"AccountNo\":\"2\"}"
295
296     // It should get the same expected payload
297     args = [][]byte{[]byte("getDataByPub"), []byte("pub_name")}
298     checkInvokeResponse(t, stub, args, "["+expectedPayload+"]")
299
300     // create second test data entry ad
301     args = [][]byte{[]byte("createDataEntryAd"),
302         []byte("2"), []byte("test_data"), []byte("100"), []byte("Unit"),
303         []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
304     // it should save to the state
305     checkInvoke(t, stub, args)
306     expectedPayload2 := "{\"RecordType\":\"DATA_ENTRY_AD\",\"DataEntryID\":\"2\" +
307         "\",\"Description\":\"test_data\",\"Value\":\"100\",\"Unit\":\"Unit\", \"
308         \"\"CreationTime\":20181212152030,\"Publisher\":\"pub_name\", \"
309         \"\"Price\":10,\"AccountNo\":\"2\"}"
310
311     // It should get both entry as JSON array
312     args = [][]byte{[]byte("getDataByPub"), []byte("pub_name")}
313     expectedPayload3 := "[" + expectedPayload + "," + expectedPayload2 + "]"
314     checkInvokeResponse(t, stub, args, expectedPayload3)
315
316     // It should not find entry that is not in state
317     args = [][]byte{[]byte("getDataByPub"), []byte("pub_name2")}
318     // expected only empty array
319     expectedPayload = "[]"
320     checkInvokeResponse(t, stub, args, expectedPayload)
321
322     // It should fail with empty arg
323     args = [][]byte{[]byte("getDataByPub"), []byte("")}
324     expectedPayload = "Argument at position 1 must be a non-empty string"
```

```
325     checkInvokeResponseFail(t, stub, args, expectedPayload)
326
327     // It should fail with empty more than one arg
328     args = [][]byte{[]byte("getDataAdByPub"), []byte("pub_name"), []byte("pub_name")}
329     expectedPayload = "Incorrect number of arguments. Expecting publisher to get"
330     checkInvokeResponseFail(t, stub, args, expectedPayload)
331 }
332
333 func Test_getAllDataAdByID(t *testing.T) {
334     cc := new(Chaincode)
335     stub := shim.NewMockStub("init_test", cc)
336
337     // Init
338     checkInit(t, stub, [][]byte{[]byte("1")})
339     // create test data entry ad
340     args := [][]byte{[]byte("createDataEntryAd"),
341         []byte("1"), []byte("test_data"), []byte("???"), []byte("Unit"),
342         []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}
343
344     expectedPayload := "{\"RecordType\": \"DATA_ENTRY_AD\", \"DataEntryID\": \"1\" \" +
345         \", \"Description\": \"test_data\", \"Value\": \"???\", \"Unit\": \"Unit\", \" +
346         \"CreationTime\": 20181212152030, \"Publisher\": \"pub_name\", \" +
347         \"Price\": 10, \"AccountNo\": \"2\"}"
348     // it should save to the state
349     checkInvoke(t, stub, args)
350     args = [][]byte{[]byte("createDataEntryAd"),
351         []byte("1"), []byte("test_data"), []byte("???"), []byte("Unit"),
352         []byte("20181212152031"), []byte("pub_name"), []byte("10"), []byte("2")}
353
354     expectedPayload2 := "{\"RecordType\": \"DATA_ENTRY_AD\", \"DataEntryID\": \"1\" \" +
355         \", \"Description\": \"test_data\", \"Value\": \"???\", \"Unit\": \"Unit\", \" +
```

```
356         "\"CreationTime\":20181212152031,\"Publisher\": \"pub_name\", \" +
357         "\"Price\":10,\"AccountNo\": \"2\"}"
358     // it should save to the state
359     checkInvoke(t, stub, args)
360
361     // It should return JSON array with both entries
362     args = [][]byte{{[]byte("getAllDataAdByID"), []byte("1")}}
363     expectedPayload3 := "[" + expectedPayload + "," + expectedPayload2 + "]"
364     checkInvokeResponse(t, stub, args, expectedPayload3)
365
366     // It should fail with empty arg
367     args = [][]byte{{[]byte("getAllDataAdByID"), []byte("")}}
368     expectedPayload = "Argument at position 1 must be a non-empty string"
369     checkInvokeResponseFail(t, stub, args, expectedPayload)
370
371     // It should fail with empty more than one arg
372     args = [][]byte{{[]byte("getAllDataAdByID"), []byte("1"), []byte("1")}}
373     expectedPayload = "Incorrect number of arguments. Expecting data entry Id to get"
374     checkInvokeResponseFail(t, stub, args, expectedPayload)
375 }
376
377 func Test_getLatestDataAdByID(t *testing.T) {
378     cc := new(Chaincode)
379     stub := shim.NewMockStub("init_test", cc)
380
381     // Init
382     checkInit(t, stub, [][]byte{{[]byte("1")}})
383     // create test data entry ad
384     args := [][]byte{{[]byte("createDataEntryAd"),
385         []byte("1"), []byte("test_data"), []byte("???"), []byte("Unit"),
386         []byte("20181212152030"), []byte("pub_name"), []byte("10"), []byte("2")}}
```

```
387 // it should save to the state
388 checkInvoke(t, stub, args)
389
390 args = [][]byte{[]byte("createDataEntryAd"),
391               []byte("1"), []byte("test_data"), []byte("???"), []byte("Unit"),
392               []byte("20181212152031"), []byte("pub_name"), []byte("10"), []byte("2")}
393
394 // it should save to the state
395 checkInvoke(t, stub, args)
396
397 // It should return latest data entry by creationTime
398 args = [][]byte{[]byte("getLatestDataAdByID"), []byte("1")}
399 expectedPayload := "{\"RecordType\":\"DATA_ENTRY_AD\",\"DataEntryID\":\"1\"\" +
400                  "\",\"Description\":\"test_data\",\"Value\":\"???\",\"Unit\":\"Unit\", \" +
401                  "\"CreationTime\":20181212152031,\"Publisher\":\"pub_name\", \" +
402                  "\"Price\":10,\"AccountNo\":\"2\"}"
403 checkInvokeResponse(t, stub, args, expectedPayload)
404
405 // It should fail with empty arg
406 args = [][]byte{[]byte("getLatestDataAdByID"), []byte("")}
407 expectedPayload = "Argument at position 1 must be a non-empty string"
408 checkInvokeResponseFail(t, stub, args, expectedPayload)
409
410 // It should fail with empty more than one arg
411 args = [][]byte{[]byte("getLatestDataAdByID"), []byte("1"), []byte("1")}
412 expectedPayload = "Incorrect number of arguments. Expecting data entry Id to get"
413 checkInvokeResponseFail(t, stub, args, expectedPayload)
414 }
415
416 // For this function we cannot test more because of the MockStub limitations
417 func Test_revealPaidData(t *testing.T) {
```

```
418         cc := new(Chaincode)
419         stub := shim.NewMockStub("init_test", cc)
420
421         // Init
422         checkInit(t, stub, [][]byte{[]byte("1")})
423
424         // It should fail to revealPaidData that have less than 7 args
425         args := [][]byte{[]byte("revealPaidData"),
426             []byte("channel1"), []byte("chaincode_data"), []byte("1"),
427             []byte("20181212152030"),
428             []byte("channel3"), []byte("chaincode_tokens")}]
429         expectedMessage := "Incorrect number of arguments. Expecting 7"
430         checkInvokeResponseFail(t, stub, args, expectedMessage)
431
432         // It should fail to revealPaidData that have more than 7 args
433         args = [][]byte{[]byte("revealPaidData"),
434             []byte("channel1"), []byte("chaincode_data"), []byte("1"),
435             []byte("20181212152030"),
436             []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1"),
437             []byte("extra_arg")}]
438         expectedMessage = "Incorrect number of arguments. Expecting 7"
439         checkInvokeResponseFail(t, stub, args, expectedMessage)
440
441         // It should fail to revealPaidData that have one empty string arg
442         args = [][]byte{[]byte("revealPaidData"),
443             []byte(""), []byte("chaincode_data"), []byte("1"), []byte("20181212152030"),
444             []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1")}]
445         expectedMessage = "Argument at position 1 must be a non-empty string"
446         checkInvokeResponseFail(t, stub, args, expectedMessage)
447
448         // It should fail to revealPaidData that have one empty string arg
```

```
446     args = [][]byte{[]byte("revealPaidData"),
447         []byte("channel1"), []byte(""), []byte("1"), []byte("20181212152030"),
448         []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1")}
449     expectedMessage = "Argument at position 2 must be a non-empty string"
450     checkInvokeResponseFail(t, stub, args, expectedMessage)
451
452     // It should fail to revealPaidData that have one empty string arg
453     args = [][]byte{[]byte("revealPaidData"),
454         []byte("channel1"), []byte("chaincode_data"), []byte(""),
455         []byte("20181212152030"),
456         []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1")}
457     expectedMessage = "Argument at position 3 must be a non-empty string"
458     checkInvokeResponseFail(t, stub, args, expectedMessage)
459
460     // It should fail to revealPaidData that have one empty string arg
461     args = [][]byte{[]byte("revealPaidData"),
462         []byte("channel1"), []byte("chaincode_data"), []byte("1"), []byte(""),
463         []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1")}
464     expectedMessage = "Argument at position 4 must be a non-empty string"
465     checkInvokeResponseFail(t, stub, args, expectedMessage)
466
467     // It should fail to revealPaidData that have one empty string arg
468     args = [][]byte{[]byte("revealPaidData"),
469         []byte("channel1"), []byte("chaincode_data"), []byte("1"),
470         []byte("20181212152030"),
471         []byte(""), []byte("chaincode_tokens"), []byte("TxID-1")}
472     expectedMessage = "Argument at position 5 must be a non-empty string"
473     checkInvokeResponseFail(t, stub, args, expectedMessage)
474
475     // It should fail to revealPaidData that have one empty string arg
476     args = [][]byte{[]byte("revealPaidData"),
```



```
475         []byte("channel1"), []byte("chaincode_data"), []byte("1"),
[]byte("20181212152030"),
476         []byte("channel3"), []byte(""), []byte("TxID-1")}
477     expectedMessage = "Argument at position 6 must be a non-empty string"
478     checkInvokeResponseFail(t, stub, args, expectedMessage)
479
480     // It should fail to revealPaidData that have one empty string arg
481     args = [][]byte{[]byte("revealPaidData"),
482         []byte("channel1"), []byte("chaincode_data"), []byte("1"),
[]byte("20181212152030"),
483         []byte("channel3"), []byte("chaincode_tokens"), []byte("")}
484     expectedMessage = "Argument at position 7 must be a non-empty string"
485     checkInvokeResponseFail(t, stub, args, expectedMessage)
486
487     // It should fail to revealPaidData that negative creationTime
488     args = [][]byte{[]byte("revealPaidData"),
489         []byte("channel1"), []byte("chaincode_data"), []byte("1"), []byte("-
20181212152030"),
490         []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1")}
491     expectedMessage = "Expecting positiv integer or zero as creation time."
492     checkInvokeResponseFail(t, stub, args, expectedMessage)
493
494     // It should fail to revealPaidData that creationTime is not uint
495     args = [][]byte{[]byte("revealPaidData"),
496         []byte("channel1"), []byte("chaincode_data"), []byte("1"), []byte("lol"),
497         []byte("channel3"), []byte("chaincode_tokens"), []byte("TxID-1")}
498     expectedMessage = "Expecting positiv integer or zero as creation time."
499     checkInvokeResponseFail(t, stub, args, expectedMessage)
500
501 }
502
```

```
503 // For this function we cannot test more because of the MockStub limitations
504 func Test_checkTXState(t *testing.T) {
505     cc := new(Chaincode)
506     stub := shim.NewMockStub("init_test", cc)
507
508     // Init
509     checkInit(t, stub, [][]byte{[]byte("1")})
510
511     // It should fail to checkTXState that more than 1 arg
512     args := [][]byte{[]byte("checkTXState"), []byte("TxID-1"), []byte("extra_arg")}
513     expectedMessage := "Incorrect number of arguments. Expecting TxID"
514     checkInvokeResponseFail(t, stub, args, expectedMessage)
515
516     // It should fail to checkTXState with empty string arg
517     args = [][]byte{[]byte("checkTXState"), []byte("")}
518     expectedMessage = "Argument at position 1 must be a non-empty string"
519     checkInvokeResponseFail(t, stub, args, expectedMessage)
520 }
521
```

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