TDD - Cheat sheet for writing good tests on DRF

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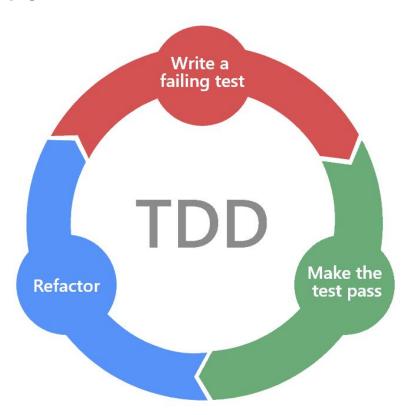
TDD - House of horrors







Follow the mantra



Consistency

```
project_b/
   manage.py
   project_b/
    auth/
       models.py
       serializers.py
       viewsets.py
       tests/
            test_auth.py
            test_models.py
            test_serializers.py
            test_viewsets.py
           test_create_user.py
           test_delete_user.py
            test_create_user_with_invalid_name_characters.py
```



Consistency



```
project_a/
   manage.py
   project_a/
   auth/
       models/
       ∟ user.py
       serializers/
       user_serializer.py
       viewsets/
       user_viewset.py
       tests/
           models/
           test_user_model.py
           serializers/
           test_user_serializer.py
           viewsets/
               test_user_viewset.py
```

Test more than just status code

```
class BookmarkCreateTests(BookmarkBaseTest):
    reddy *
   def setUp(self):
       super().setUp()
        self.data = {
            'title': "fake-bookmark",
            "url": 'fake-url',
    def test_create(self):
       url = reverse("bookmarks:bookmark-list")
        response = self.app.post(url, data=self.data)
        self.assertEqual(response.status_code, status.HTTP_201_CREATED)
```



```
def test_create(self):
   count = Bookmark.objects.count()
   fake_created_at = timezone.now()
   with freeze_time(fake_created_at):
        response = self.app.post(self.url, data=self.data)
   self.assertEqual(response.status_code, status.HTTP_201_CREATED)
   self.assertEqual(Bookmark.objects.count(), count + 1)
   self.assertTrue(
        Bookmark.objects.filter(
            **self.data,
            created_by=self.user,
            created_at=fake_created_at
        ).exists()
```

```
* reday
class BookmarkListTests(BookmarkBaseTest):
    * reddy *
    def setUp(self):
        self.user = UserFactory()
        self.app = APIClient()
        self.url = reverse("bookmarks:bookmark-list")
        self.login(self.user)
    * reddy *
    def test_list(self):
        response = self.app.get(self.url)
        self.assertEqual(response.status_code, status.HTTP_200_0K)
```

user_bookmarks = BookmarkFactory.create_batch(3, is_private=False)
user_bookmarks.sort(key=lambda b: b.created_at, reverse=True)

for data, bookmark in zip(response.data["results"], user_bookmarks):

self.assertEqual(response.status_code, status.HTTP_200_0K)
self.assertEqual(response.data["count"], len(user_bookmarks))

self._validate_bookmark_response(data, bookmark)

def test_list(self):

response = self.app.get(self.url)



```
with self.assertNumQueries(10):
    response = self.app.get(self.url)
```



Please, don't forget to clean your prints before pushing your code

```
def test_list(self):
    response = self.app.get(self.url)
    print(response.json())
```

Thanks