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Cyclomatic Complexity

Analysis:

Even though the amount of code has dramatically increased since the last metrics posting, our cyclomatic complexity has gotten much better. As you can see, every function has a healthy complexity grade according to the radon cc tool. Since our last metrics posting where we discovered that we had some functions with an unhealthy complexity grade, we have refactored our codebase and now put in consideration to the complexity when developing new code. Independently of the data, I personally believe that our codebase is in good shape because we are following TDD principles, have a uniformly structured codebase, and have not found any major problems during code reviews.

Data calculated using the Radon tool:

- The letter before each function name represents whether it is just a function (f), a class method (m), or a constructor (c)
- The number before each function name shows the line number where the function starts
- The letter after the function name is the grade of its complexity (A-F)

helperFuncs.py

  F 6:0 postRooAPI - A

  F 11:0 getRooTokenAPI - A

  F 17:0 postRooTokenAPI - A

  F 23:0 putRooTokenAPI - A

helperFuncsForTesting.py

  F 9:0 setUpHelper - A

  F 41:0 tearDownHelper - A

  F 47:0 getInfoPut - A

  F 53:0 getInfoPost - A

  F 59:0 getInfoGet - A

Appliances\models.py

  C 9:0 Appliance - A

  M 19:4 Appliance.__str__ - A

M 22:4 Appliance.toDict - A

Appliances\serializers.py

C 6:0 ApplianceSerializer - A

Appliances\test_create.py

C 20:0 CreateAppliance - A

M 21:4 CreateAppliance.setUp - A

M 24:4 CreateAppliance.test_create_appliance_allCorrect - A

M 64:4 CreateAppliance.test_CREATE_APP_bad_propId - A

Appliances\test_update.py

C 23:0 UpdateAppliance - A

M 25:4 UpdateAppliance.setUp - A

M 28:4 UpdateAppliance.test_update_appliance_allCorrect - A

M 87:4 UpdateAppliance.test_update_app_bad_app_id - A

Appliances\views.py

C 63:0 ApplianceView - A

F 42:0 checkRequired - A

M 65:4 ApplianceView.post - A

M 100:4 ApplianceView.put - A

M 131:4 ApplianceView.get - A

M 151:4 ApplianceView.delete - A

F 54:0 missingError - A

F 50:0 returnError - A

Properties\models.py

C 8:0 Property - A

M 18:4 Property.__str__ - A

M 21:4 Property.toDict - A

Properties\serializers.py

C 8:0 PropertySerializer - A

Properties\test_create.py

  C 25:0 CreateProperty - A

  M 27:4 CreateProperty.setUp - A

  M 34:4 CreateProperty.test_create_property_allCorrect - A

  M 68:4 CreateProperty.test_create_property_duplicate - A

  M 107:4 CreateProperty.test_create_property_bad_field_street - A

  M 123:4 CreateProperty.test_create_property_bad_field_city - A

  M 139:4 CreateProperty.test_create_property_bad_field_bath - A

  M 156:4 CreateProperty.test_create_property_bad_field_mult - A

Properties\test_info.py

  C 21:0 SendBackLists - A

  M 23:4 SendBackLists.setUp - A

  M 26:4 SendBackLists.test_create_property_allCorrect - A

Properties\test_update.py

  C 23:0 UpdateProperty - A

  M 25:4 UpdateProperty.setUp - A

  M 90:4 UpdateProperty.test_update_to_preexisting - A

  M 120:4 UpdateProperty.test_create_property_bad_field_street - A

  M 138:4 UpdateProperty.test_create_property_bad_field_city - A

  M 156:4 UpdateProperty.test_create_property_bad_field_bath - A

  M 175:4 UpdateProperty.test_create_property_bad_field_mult - A

Properties\views.py

  C 150:0 PropertyView - B

  M 151:4 PropertyView.post - B

  M 215:4 PropertyView.put - B

  F 71:0 getProperty - A

  F 104:0 addNewProperties - A

  F 47:0 checkRequired - A

M 279:4 PropertyView.get - A

F 59:0 missingError - A

F 55:0 returnError - A

PropertyManagers\managers.py

  C 9:0 HomepairsUserManager - A

  M 25:4 HomepairsUserManager.create_superuser - A

  M 11:4 HomepairsUserManager._create_user - A

  M 21:4 HomepairsUserManager.create_user - A

PropertyManagers\models.py

  C 6:0 PropertyManager - A

  M 11:4 PropertyManager.__str__ - A

  M 14:4 PropertyManager.toDict - A

PropertyManagers\serializers.py

  C 9:0 PropertyManagerSerializer - A

PropertyManagers\test_login.py

  C 22:0 Login - A

  M 23:4 Login.setUp - A

  M 26:4 Login.tearDown - A

  M 34:4 Login.test_login_correct - A

  M 62:4 Login.test_pm_wrongEmail - A

  M 70:4 Login.test_pm_wrongPass - A

  M 78:4 Login.test_pm_wrongPassAndEmail - A

  M 86:4 Login.test_pm_incorrectEmailField - A

  M 94:4 Login.test_pm_incorrectPassField - A

  M 102:4 Login.test_pm_incorrectFields - A

  M 116:4 Login.test_pm_propOnRoopairs - A

  M 144:4 Login.test_pm_propOnRoopairsXFour - A

PropertyManagers\test_models.py

  C 5:0 TestUser - A

  M 8:4 TestUser.setUpTestData - A

  M 11:4 TestUser.test_str - A

  M 14:4 TestUser.test_get_full_name - A

  M 17:4 TestUser.test_get_short_name - A

PropertyManagers\test_register.py

  C 25:0 PMRegistration - A

  C 98:0 PMRegistrationRoopairs - A

  M 29:4 PMRegistration.test_pm_allCorrect - A

  M 50:4 PMRegistration.test_pm_missing_firstName - A

  M 62:4 PMRegistration.test_pm_missing_lastName - A

  M 73:4 PMRegistration.test_pm_missing_email - A

  M 84:4 PMRegistration.test_pm_missing_password - A

  M 108:4 PMRegistrationRoopairs.test_pm_allCorrect - A

  M 123:4 PMRegistrationRoopairs.test_pm_noEmail - A

  M 132:4 PMRegistrationRoopairs.test_pm_noPass - A

  M 151:4 PMRegistrationRoopairs.test_pm_allCorrectPlusProps - A

PropertyManagers\test_tenEdit.py

  C 23:0 TenantEdit - A

  M 24:4 TenantEdit.setUp - A

  M 27:4 TenantEdit.test_all_correct - A

  M 32:4 TenantEdit.test_already_in_prop - A

PropertyManagers\views.py

  C 208:0 TenantControlView - B

  M 209:4 TenantControlView.put - B

  C 162:0 RegisterView - B

  F 97:0 pmLogin - A

  C 136:0 LoginView - A

M 163:4 RegisterView.post - A

F 72:0 getPropertyManager - A

M 138:4 LoginView.post - A

F 49:0 checkRequired - A

F 61:0 missingError - A

F 57:0 returnError - A

ServiceProvider\models.py

C 9:0 ServiceProvider - A

M 18:4 ServiceProvider.__str__ - A

M 21:4 ServiceProvider.toDict - A

ServiceProvider\test_create.py

C 19:0 CreateServiceProvider - A

M 20:4 CreateServiceProvider.setUp - A

M 23:4 CreateServiceProvider.test_create_service_provider_allCorrect - A

M 62:4 CreateServiceProvider.test_create_pro_bad_date - A

M 84:4 CreateServiceProvider.test_create_service_provider_dup_phone - A

ServiceProvider\test_update.py

C 21:0 UpdateServiceProvider - A

M 23:4 UpdateServiceProvider.setUp - A

M 26:4 UpdateServiceProvider.test_update_service_provider_allCorrect - A

M 81:4 UpdateServiceProvider.test_update_service_provider_bad_date - A

M 123:4 UpdateServiceProvider.test_update_service_provider_bad_phone_num - A

ServiceProvider\views.py

C 66:0 ServiceProviderView - A

M 99:4 ServiceProviderView.put - A

M 67:4 ServiceProviderView.post - A

F 45:0 checkRequired - A

M 136:4 ServiceProviderView.get - A

M 155:4 ServiceProviderView.delete - A

F 57:0 missingError - A

F 53:0 returnError - A

ServiceRequest\models.py

  F 19:0 __str__ - A

  F 23:0 toDict - A

  C 8:0 ServiceRequest - A

ServiceRequest\test_create.py

  C 24:0 CreateServiceProvider - A

  M 25:4 CreateServiceProvider.setUp - A

  M 28:4 CreateServiceProvider.test_create_service_request_allCorrect - A

  M 71:4 CreateServiceProvider.test_create_service_request_bad_prop - A

  M 115:4 CreateServiceProvider.test_create_service_request_bad_app - A

ServiceRequest\test_get.py

  C 24:0 GetServiceRequest - A

  M 26:4 GetServiceRequest.setUp - A

  M 29:4 GetServiceRequest.test_update_service_request_allCorrect - A

ServiceRequest\test_update.py

  C 24:0 UpdateServiceProvider - A

  M 26:4 UpdateServiceProvider.setUp - A

  M 29:4 UpdateServiceProvider.test_update_service_request_allCorrect - A

  M 97:4 UpdateServiceProvider.test_update_service_request_allCorrect - A

ServiceRequest\views.py

  C 68:0 ServiceRequestView - A

  M 69:4 ServiceRequestView.post - A

  M 145:4 ServiceRequestView.get - A

F 47:0 checkRequired - A

M 114:4 ServiceRequestView.put - A

F 59:0 missingError - A

F 55:0 returnError - A

Tenants\models.py

C 9:0 Tenant - A

M 17:4 Tenant.__str__ - A

M 20:4 Tenant.toDict - A

Tenants\serializers.py

C 6:0 TenantSerializer - A

Tenants\test_login.py

C 20:0 TenantLogin - A

M 22:4 TenantLogin.setUp - A

M 25:4 TenantLogin.test_tenant_allCorrect - A

M 52:4 TenantLogin.test_tenant_incorrectEmail - A

M 60:4 TenantLogin.test_tenant_incorrectPass - A

M 68:4 TenantLogin.test_tenant_incorrectPassAndEmail - A

M 76:4 TenantLogin.test_tenant_incorrectEmailField - A

M 84:4 TenantLogin.test_tenant_incorrectPassField - A

M 92:4 TenantLogin.test_tenant_incorrectFields - A

Tenants\test_register.py

C 19:0 TenantRegistration - A

M 20:4 TenantRegistration.setUp - A

M 23:4 TenantRegistration.test_tenant_allCorrect - A

M 45:4 TenantRegistration.test_tenant_noLastName - A

M 60:4 TenantRegistration.test_tenant_noFirstName - A

M 74:4 TenantRegistration.test_tenant_Email - A

M 87:4 TenantRegistration.test_tenant_noPassword - A

Tenants\views.py

C 103:0 RegisterView - A

M 104:4 RegisterView.post - A

F 47:0 checkRequired - A

F 70:0 getTenant - A

C 89:0 LoginView - A

F 59:0 missingError - A

M 90:4 LoginView.post - A

F 55:0 returnError – A