

Testing Documentation

Backend Unit-testing

File=projectsite\projectapp\test_models.py

You can run the tests using “python manage.py test”

Lights

Test name	Description
test_name_value	Inputs test data, then tests values are found in database
test_colour_value	Inputs test data, then tests values are found in database
test_brightness_value	Inputs test data, then tests values are found in database
test_light_on_value	Inputs test data, then tests values are found in database
test_selected_value	Inputs test data, then tests values are found in database
test_name_max_length	Inputs test data, then tests value constraints are present for the field
test_colour_max_length	Inputs test data, then tests value constraints are present for the field

Video Wall

Test name	Description
test_video_wall_value	Inputs test data, then tests values are found in database
test_media_type_value	Inputs test data, then tests values are found in database
test_source_value	Inputs test data, then tests values are found in database
test_wall_on_value	Inputs test data, then tests values are found in database
test_media_name_max_length	Inputs test data, then tests values are found in database
test_media_type_max_length	Inputs test data, then tests value constraints are present for the field
test_colour_max_length	Inputs test data, then tests value constraints are present for the field

Workstation

Test Name	Description
test_workstation__name_value	Inputs test data, then tests values are found in database
test_station_on_value	Inputs test data, then tests values are found in database
test_source_max_length	Inputs test data, then tests value constraints are present for the field

Display

Test Name	Description
test_display__name_value	Inputs test data, then tests values are found in database
test_display_on_value	Inputs test data, then tests values are found in database
test_dispaly_name_max_length	Inputs test data, then tests value constraints are present for the field
test_source_max_length	Inputs test data, then tests value constraints are present for the field

Media

Test Name	Description
test_media__name_value	Inputs test data, then tests values are found in database
test_source_value	Inputs test data, then tests values are found in database
test_source_max_length	Inputs test data, then tests value constraints are present for the field

Preset

Test Name	Description
test_preset_name_value	Inputs test data, then tests values are found in database
test_lights_preset_value	Inputs test data(JSON), then tests values are found in database
test_preset_name_max_length	Inputs test data, then tests value constraints are present for the field

Front-end testing

Selenium API (chrome used)

CITS3200-ECC-WebUI-project-test.side -- file can be used with selenium clients – contains all tests

Found at ...\\selenium tests\\ CITS3200-ECC-WebUI-project-test.side

Alternatively the tests as python pytest can be found at

...\\Selenium Tests\\Test suites saved as python pytest

Display Page tests

test_displaysplaycontentfromurl	Loads home page, opens the display page, copy paste's an online video url, plays video
test_displaysplayandchangecontentwithfilebrowser	Loads home page, opens display page, changes content displayed on screen 1 and 2

Lights Page tests

test_testLightsPageChangelightcolours	Loads home page, opens light page, proceeds to change lights on the page
test_testLightsPageBrightness	Loads home page, opens light page, proceeds to change brightness on individual and multiple lights at a time
test_testLightsPageLightHexValue	Opens home page, opens lights page, inputs a hex value, applies the colour
test_testLightsSelecttools	Opens home page, opens light page, selects a single light, then multiple, then uses "select all"/"deselect all" buttons

Video Wall Page tests

test_videoWallchangevideo	Loads home page, opens video wall, proceeds to change the playing video
test_videoWallplayvideo1/ test_videoWallplayvideo2	Loads home page, opens video wall, plays example video 1/2

Presets/"Preset Page" tests

test_presetTestchangingpresetsactuallychangesstates	Loads home page, selects a preset, checks light page state, selects a different preset, checks lights page,
test_presetcreatenewpresetwithcustomname	Loads home page, creates a new preset with a custom name, validates that applying the preset actually changes values
test_presetSelectingPresets	Loads home page, selects a preset, selects a different preset

Other tests

test_testOffButton	Loads home page, selects off button, checks lights have been turned off, then reselects off button, verifies lights have been turned on to "default" state
test_workstationPageopenswithdb	Loads home page, opens workstation page, verifies there is content form db on the workstation page