

REDCap Test Instance

Infrastructure

Host Operating System

Docker Environment

App A

App B

REDCap Test Instance

Containerized Applications

Full-Stack E2E Test Framework

Infrastructure

Host Operating System

Cypress Framework

Test Suite A

Test Suite B

REDCap
Cypress Framework

REDCap Test Suite

App-Specific Test Suites

Test Environment

REDCap Test Instance

"The Playground"

Apache HTTP

PHP

MySQL

MailHog SMTP

Specs exercised on
REDCap Test Instance
through Cypress-
controlled browser

Framework injects
current REDCap
version & structure
into DB
automatically

Ability to inject
custom
DB seed data
into Test DB at
any time

REDCap Cypress Framework

"Cypress + More"

cy.mysql_db()

cy.set_user_type()

cy.visit_base_url()

cy.visit_version()

REDCap-specific Cypress
helper methods available
to REDCap Test Suite

REDCap Test Suite

"Where the Specs Live"

Core Functionality

External Modules

Hooks

Plugins

Extended Project Functions

Consortium-Wide

Institution-Specific