


## Cypress Automation - Project plan

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Objective	Create a Cypress QA pipeline
Aim date	Oct 1, 2024
Key outcomes	QA pipeline with access for the QA team to monitor and approve testing
Status	NOT STARTED / IN PROGRESS / COMPLETE

 Draft project plan - open to change

### Problem Statement

At present he QA system is used locally on the QA operators laptop, this builds difficulty is observability and access. The desire is to centralise in/output and automate the process so as to allow visibility and automation releasing time to the QA operative.


### Stages

Testing, Setup and Understanding:	<ul style="list-style-type: none"><li>Set up and clone a QA setup</li><li>Run and understand process being pipelined</li></ul>
Usable POC:	<ul style="list-style-type: none"><li>Create pipeline</li><li>Run on none production tests</li><li>Canary release to one pipeline flow</li></ul>
Release 1:	<ul style="list-style-type: none"><li>Limited release</li><li>Full release to wider QA Team</li></ul>

### Timeline

This project is to be planned with the QA team as the customer. Time line is open to Good over Perfect release and will be results driven

### Milestones and deadlines

 Draft project plan pulled and open to change

Milestone	Owner	Status
Local Setup	@Stephen P Agius <a href="https://vectorai.atlassian.net/browse/DOPS-231">https://vectorai.atlassian.net/browse/DOPS-231</a>	NOT STARTED
1. Create a clone of present QA process.		IN PROGRESS
General guide		COMPLETE
1. Install Node.js on a system.		
2. Create a new project directory:		
<pre>1 mkdir my-cypress-project 2 cd my-cypress-project</pre>		
3. Initialise a new Node.js project:		
<pre>1 npm init -y</pre>		
4. Install Cypress as a dev dependency:		

<pre>1 npm install cypress --save-dev</pre> <p>5. Open Cypress for the first time:</p> <pre>1 npx cypress open</pre> <p>This command will create a cypress directory in your project with example specs and necessary configuration files.</p> <p>6. Configure Cypress: You can modify the <code>cypress.config.js</code> file in your project root to adjust Cypress settings.</p> <p>7. Write your tests: Create test files in the <code>cypress/e2e</code> directory with a <code>.cy.js</code> extension.</p> <p>8. Run Cypress tests:</p> <ul style="list-style-type: none"> <li>◦ To open the Cypress Test Runner: <code>npx cypress open</code></li> <li>◦ To run tests in headless mode: <code>npx cypress run</code></li> </ul> <p>9. Add scripts to package.json:</p> <pre>1 json 2 "scripts": { 3   "cypress:open": "cypress open", 4   "cypress:run": "cypress run" 5 } 6</pre> <p>Now you can use <code>npm run cypress:open</code> or <code>npm run cypress:run</code> to start Cypress.</p>		
<p>Project Setup</p> <ol style="list-style-type: none"> <li>1. Create a new GitLab repository for your project.</li> <li>2. Initialise your project with a basic Node.js application.</li> <li>3. Install Cypress as a dev dependency:</li> </ol> <pre>1 npm install cypress --save-dev</pre> <ol style="list-style-type: none"> <li>4. Initialise Cypress:</li> </ol> <pre>1 npx cypress open</pre>	<p><a href="#">@Stephen P Agius</a>  <a href="https://vectorai.atlassian.net/browse/DOPS-232">https://vectorai.atlassian.net/browse/DOPS-232</a></p>	<p>NOT STARTED</p> <p>IN PROGRESS</p> <p>COMPLETE</p>
<p>Cypress Test Creation</p> <ol style="list-style-type: none"> <li>1. Write your Cypress tests in the <code>cypress/integration</code> folder.</li> <li>2. Create a <code>cypress.json</code> configuration file in your project root.</li> </ol>	<p><a href="#">@Stephen P Agius</a>  <a href="https://vectorai.atlassian.net/browse/DOPS-233">https://vectorai.atlassian.net/browse/DOPS-233</a></p>	<p>NOT STARTED</p> <p>IN PROGRESS</p> <p>COMPLETE</p>
<p>GitLab CI/CD Configuration</p> <ol style="list-style-type: none"> <li>1. Create a <code>.gitlab-ci.yml</code> file in your project root.</li> <li>2. Define the pipeline stages:</li> </ol> <pre>1 stages: 2   - build 3   - test 4   - deploy</pre> <ol style="list-style-type: none"> <li>3. Configure the Cypress test job:</li> </ol> <pre>1 cypress-test: 2   image: cypress/base:14 3   stage: test 4   script: 5     - npm ci 6     - npx cypress run 7   artifacts: 8     when: always 9     paths: 10      - cypress/videos/**/*.mp4 11      - cypress/screenshots/**/*.png</pre>	<p><a href="#">@Stephen P Agius</a>  <a href="https://vectorai.atlassian.net/browse/DOPS-237">https://vectorai.atlassian.net/browse/DOPS-237</a>  <a href="https://vectorai.atlassian.net/browse/DOPS-238">https://vectorai.atlassian.net/browse/DOPS-238</a></p>	<p>NOT STARTED</p> <p>IN PROGRESS</p> <p>COMPLETE</p>

12	expire_in: 1 week		
<b>Environment Setup</b> <ol style="list-style-type: none"> <li>Set up environment variables in GitLab CI/CD settings for sensitive data.</li> <li>Configure different environments (e.g., staging, production) in GitLab.</li> </ol>		<a href="https://vectorai.atlassian.net/browse/DOPS-238">https://vectorai.atlassian.net/browse/DOPS-238</a>	NOT STARTED IN PROGRESS COMPLETE
<b>Pipeline Optimisation</b> <ol style="list-style-type: none"> <li>Implement caching for npm dependencies: <pre> 1 cache: 2   paths: 3     - node_modules/ </pre> </li> <li><del>Configure parallel test execution if we have multiple test suites.</del> Sequential testing asked for from the QA Team</li> </ol>		<a href="https://vectorai.atlassian.net/browse/DOPS-239">https://vectorai.atlassian.net/browse/DOPS-239</a>	NOT STARTED IN PROGRESS COMPLETE
<b>Reporting and Notifications</b> <ol style="list-style-type: none"> <li>Integrate test reporting tools (e.g., Mochawesome) for better visibility.</li> <li>Set up notifications for pipeline status (e.g., Slack, email).</li> </ol>		<a href="https://vectorai.atlassian.net/browse/DOPS-240">https://vectorai.atlassian.net/browse/DOPS-240</a>	NOT STARTED IN PROGRESS COMPLETE
<b>Deployment Configuration</b> <ol style="list-style-type: none"> <li>Add deployment jobs for different environments: <pre> 1 deploy-staging: 2   stage: deploy 3   script: 4     - echo "Deploy to staging server" 5   environment: 6     name: staging 7     url: https://staging.example.com 8   only: 9     - develop 10 11 deploy-production: 12   stage: deploy 13   script: 14     - echo "Deploy to production server" 15   environment: 16     name: production 17     url: https://www.example.com 18   only: 19     - main 20   when: manual </pre> </li> </ol>		<a href="#">DOPS-241: Deployment Configuration</a> <span>DONE</span>	NOT STARTED IN PROGRESS COMPLETE
<b>Documentation</b> <ol style="list-style-type: none"> <li>Create a README.md file explaining the project structure and how to use the pipeline.</li> <li>Document any custom scripts or configurations.</li> </ol>		<a href="#">DOPS-242: Documentation</a> <span>DONE</span>	NOT STARTED IN PROGRESS COMPLETE
<b>Testing and Iteration</b> <ol style="list-style-type: none"> <li>Push your changes to GitLab and observe the pipeline execution.</li> <li>Iterate on the pipeline configuration to improve efficiency and coverage.</li> </ol>		<a href="#">DOPS-243: Testing and Iteration</a> <span>DONE</span>	NOT STARTED IN PROGRESS COMPLETE
<b>Maintenance and Updates</b> <ol style="list-style-type: none"> <li>Regularly update Cypress and other dependencies.</li> <li>Review and optimise the pipeline as the need grows.</li> </ol>			NOT STARTED IN PROGRESS COMPLETE

## Pipeline Structure

Stage:

- **test:** The main stage where all test jobs are executed.

#### Variables:

- Defines caching directories for npm and Cypress.
- Sets up environment variables for pipeline naming and test execution.

## Job Templates

#### .cypress\_test:

- A template job that sets up common configurations for Cypress test jobs.
- Defines artifacts to be saved and sets a retry limit.

## Test Execution Jobs

There are several types of test execution jobs:

1. **run\_selected\_tests:**
  - Runs specific tests defined in the **TESTS\_TO\_RUN** variable.
  - Tests are executed sequentially.
2. **run\_selected\_code:**
  - Executes custom code specified in the **CODE** variable.
3. **run\_multivar\_code:**
  - Allows running tests based on **TITLE**, **TAG**, or **FILE** specifications.
  - Constructs the Cypress command based on provided variables.
4. **Feature-specific test jobs:**
  - Multiple jobs are defined for different features (e.g., access, accrual-match-colours, ap-dashboard).
  - Each job runs a specific Cypress test suite.
  - Jobs are configured to run sequentially with dependencies.

## Execution Flow

The pipeline is designed to:

1. Run selected tests if specified.
2. Execute custom code if provided.
3. Run all feature tests sequentially if **ALL** is set to "Y".

## Key Features

- **Flexibility:** Allows running specific tests, custom code, or all tests.
- **Caching:** Implements caching for npm and Cypress to speed up execution.
- **Artifacts:** Saves test reports as artifacts for later analysis.
- **Retry Mechanism:** Includes a retry option for failed tests.
- **Sequential Execution:** Feature tests are run in a specific order with dependencies.

## Reference materials

<https://www.cypress.io/>

<https://docs.cypress.io/guides/continuous-integration/gitlab-ci>

<https://dzone.com/articles/how-to-execute-cypress-e2e-test-cases-using-cicd-gitlab#:~:text=GitLab%20provides%20integration%20with%20Cypress,such%20as%20screenshots%20and%20videos.>

<https://youtu.be/Zjv1XwfGeOY?feature=shared>

<https://youtu.be/8wxzn18innM?feature=shared>

<https://youtu.be/qP8kir2GUgo?feature=shared>

## Progress

Sep 3, 2024

The pipeline is now complete.

The pipeline will run on manual actioning allowing not only full testing but selective testing.

These tests can be chosen in a number of ways including full command line entry, individual test selection, wildcard selection.

The pipeline is having a final test before entering the maintain and iterate stage. A number of iterations have already taken place to this point.

The project is now at the stage of done.

### gitlab-ci.yml

```
1 image: cypress/browsers
2
3 stages:
4   - test
5
6 workflow:
7   name: $PIPELINE_NAME
8
9 variables:
10  npm_config_cache: '$CI_PROJECT_DIR/.npm'
11  CYPRESS_CACHE_FOLDER: '$CI_PROJECT_DIR/cache/Cypress'
12  PIPELINE_NAME: "$GITLAB_USER_NAME $CI_PIPELINE_IID $CI_COMMIT_REF_NAME $CI_COMMIT_TITLE"
13  TESTS_TO_RUN: ''
14  COMMAND: "npx cypress run --browser chrome"
15  ALL: ''
16  CODE: ''
17  MEMORY_JOGGER:
18    description: Just here to list tests
19    value: ''
20    options:
21      - ''
22      - access
23      - accrual-match-colours
24      - accrual-match-colours-credit-note
25      - accrual-table
26      - ap-dashboard
27      - ap-dashboard-permissions
28      - ap-tags
29      - archive-spam
30      - arrival-notices
31      - audit-logs
32      - civ
33      - civ-bol-arn-with-tables
34      - claim-actions
35      - claim-escalate
36      - classification
37      - column-actions
38      - comments
39      - create-accruals
40      - create-team
41      - creditor-filters
42      - default-fields-comparison
43      - default-view
44      - edoc-agent-invoice
45      - edoc-arrival-notice
46      - edoc-pl-wpl
47      - edit-modal
48      - edit-team
49      - edit-team-restrictions
50      - email-upload
51      - escalate-actions
52      - field-removal-api
53      - field-removal-ui
54      - folder-specific-panel
55      - folder-structure
56      - invoice-date-filters
57      - manual-push
58      - mbol
59      - ml-extraction
60      - multishipment-accrual-match
```



```
61   - netchb-hawb
62   - netchb-mbol
63   - new-manual-push
64   - operations
65   - overdue
66   - overhead-push
67   - owner-change
68   - owner-reassignment-inbox
69   - owner-reassignment-ui
70   - pack-filter-sort
71   - pack-migrations
72   - pack-status
73   - partners
74   - permissions
75   - push-to-cw
76   - revalidate-pill
77   - rollup-push
78   - row-actions
79   - star-unstar-actions
80   - starred-packs
81   - sticky-process-actions
82   - tags
83
84 cache:
85   key: ${CI_COMMIT_REF_SLUG}
86   paths:
87     - .npm
88     - cache/Cypress
89     - node_modules
90
91 before_script:
92   - npm ci
93
94 .cypress_test:
95   stage: test
96   artifacts:
97     when: always
98     paths:
99       - /builds/vector.ai/qa-automation-cypress/cypress/report/
100   expire_in: 1 week
101   retry: 2
102
103 run_selected_tests:
104   extends: .cypress_test
105   script:
106     - |
107       if [ -n "$TESTS_TO_RUN" ]; then
108         IFS=' ' read -ra TESTS <<< "$TESTS_TO_RUN"
109         for TEST in "${TESTS[@]"; do
110           TEST=$(echo "$TEST" | tr -d '[:space:]')
111           if [ -n "$TEST" ]; then
112             echo "Running test: $TEST"
113             npm run cy:run:$TEST || echo "Test $TEST failed. Continuing to next test."
114           fi
115         done
116       else
117         echo "No tests specified in TESTS_TO_RUN"
118       fi
119   rules:
120     - if: $TESTS_TO_RUN != ""
121
122 run_selected_code:
123   extends: .cypress_test
124   script:
125     - |
126       if [ -n "$CODE" ]; then
127         echo "Running code: $CODE"
128         $CODE
129       fi
130   rules:
131     - if: $CODE != ""
132
133 run_multivar_code:
134   extends: .cypress_test
135   script:
136     - |
```

```

137     if [ -n "$TITLE" ]; then
138         COMMAND="$COMMAND --env grep=$TITLE"
139     fi
140     echo "TITLE: $COMMAND"
141     if [ -n "$TAG" ]; then
142         if [ -z $TITLE ]; then
143             COMMAND="$COMMAND --env grepTags=$TAG"
144         else
145             COMMAND="$COMMAND,grepTags=$TAG"
146         fi
147     fi
148     echo "TAG : $COMMAND"
149     if [ -n "$FILE" ]; then
150         COMMAND="$COMMAND --spec $FILE"
151     fi
152     echo "FILE : $COMMAND"
153     $COMMAND
154 rules:
155     - if: $TITLE && $TITLE != "" || $TAG && $TAG != "" || $FILE && $FILE != ""
156
157 access:
158     extends: .cypress_test
159     script:
160         - npm run cy:run:access
161     rules:
162         - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
163
164
165 accrual-match-colours:
166     extends: .cypress_test
167     script:
168         - npm run cy:run:accrual-match-colours
169     rules:
170         - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
171     needs:
172         - access
173     allow_failure: true
174
175 accrual-match-colours-credit-note:
176     extends: .cypress_test
177     script:
178         - npm run cy:run:accrual-match-colours-credit-note
179     rules:
180         - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
181     needs:
182         - accrual-match-colours
183     allow_failure: true
184
185 accrual-table:
186     extends: .cypress_test
187     script:
188         - npm run cy:run:accrual-table
189     rules:
190         - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
191     needs:
192         - accrual-match-colours-credit-note
193     allow_failure: true
194
195 ap-dashboard:
196     extends: .cypress_test
197     script:
198         - npm run cy:run:ap-dashboard
199     rules:
200         - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
201     needs:
202         - accrual-table
203     allow_failure: true
204
205 ap-dashboard-permissions:
206     extends: .cypress_test
207     script:

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208   - npm run cy:run:ap-dashboard-permissions
209   rules:
210     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
211     needs:
212       - ap-dashboard
213     allow_failure: true
214
215   ap-tags:
216     extends: .cypress_test
217     script:
218       - npm run cy:run:ap-tags
219     rules:
220       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
221       needs:
222         - ap-dashboard-permissions
223       allow_failure: true
224
225   archive-spam:
226     extends: .cypress_test
227     script:
228       - npm run cy:run:archive-spam
229     rules:
230       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
231       needs:
232         - ap-tags
233       allow_failure: true
234
235   arrival-notices:
236     extends: .cypress_test
237     script:
238       - npm run cy:run:arrival-notices
239     rules:
240       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
241       needs:
242         - archive-spam
243       allow_failure: true
244
245   audit-logs:
246     extends: .cypress_test
247     script:
248       - npm run cy:run:audit-logs
249     rules:
250       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
251       needs:
252         - arrival-notices
253       allow_failure: true
254
255   civ:
256     extends: .cypress_test
257     script:
258       - npm run cy:run:civ
259     rules:
260       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
261       needs:
262         - audit-logs
263       allow_failure: true
264
265   civ-bol-arn-with-tables:
266     extends: .cypress_test
267     script:
268       - npm run cy:run:civ-bol-arn-with-tables
269     rules:
270       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
271       needs:
272         - civ
273       allow_failure: true
274
275   claim-actions:
276     extends: .cypress_test

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277   script:
278     - npm run cy:run:claim-actions
279   rules:
280     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
281   needs:
282     - civ-bol-arn-with-tables
283   allow_failure: true
284
285 claim-escalate:
286   extends: .cypress_test
287   script:
288     - npm run cy:run:claim-escalate
289   rules:
290     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
291   needs:
292     - claim-actions
293   allow_failure: true
294
295 classification:
296   extends: .cypress_test
297   script:
298     - npm run cy:run:classification
299   rules:
300     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
301   needs:
302     - claim-escalate
303   allow_failure: true
304
305 column-actions:
306   extends: .cypress_test
307   script:
308     - npm run cy:run:column-actions
309   rules:
310     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
311   needs:
312     - classification
313   allow_failure: true
314
315 comments:
316   extends: .cypress_test
317   script:
318     - npm run cy:run:comments
319   rules:
320     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
321   needs:
322     - column-actions
323   allow_failure: true
324
325 create-accruals:
326   extends: .cypress_test
327   script:
328     - npm run cy:run:create-accruals
329   rules:
330     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
331   needs:
332     - comments
333   allow_failure: true
334
335 create-team:
336   extends: .cypress_test
337   script:
338     - npm run cy:run:create-team
339   rules:
340     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
341   needs:
342     - create-accruals
343   allow_failure: true
344
345 creditor-filters:

```

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346 extends: .cypress_test
347 script:
348   - npm run cy:run:creditor-filters
349 rules:
350   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
351   needs:
352     - create-team
353   allow_failure: true
354
355 default-fields-comparison:
356 extends: .cypress_test
357 script:
358   - npm run cy:run:default-fields-comparison
359 rules:
360   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
361   needs:
362     - creditor-filters
363   allow_failure: true
364
365 default-view:
366 extends: .cypress_test
367 script:
368   - npm run cy:run:default-view
369 rules:
370   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
371   needs:
372     - default-fields-comparison
373   allow_failure: true
374
375 edoc-agent-invoice:
376 extends: .cypress_test
377 script:
378   - npm run cy:run:edoc-agent-invoice
379 rules:
380   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
381   needs:
382     - default-view
383   allow_failure: true
384
385 edoc-arrival-notice:
386 extends: .cypress_test
387 script:
388   - npm run cy:run:edoc-arrival-notice
389 rules:
390   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
391   needs:
392     - edoc-agent-invoice
393   allow_failure: true
394
395 edoc-pl-wpl:
396 extends: .cypress_test
397 script:
398   - npm run cy:run:edoc-pl-wpl
399 rules:
400   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
401   needs:
402     - edoc-arrival-notice
403   allow_failure: true
404
405 edit-modal:
406 extends: .cypress_test
407 script:
408   - npm run cy:run:edit-modal
409 rules:
410   - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
411   needs:
412     - edoc-pl-wpl
413   allow_failure: true
414

```

```
415 edit-team:
416   extends: .cypress_test
417   script:
418     - npm run cy:run:edit-team
419   rules:
420     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
421     needs:
422       - edit-modal
423     allow_failure: true
424
425 edit-team-restrictions:
426   extends: .cypress_test
427   script:
428     - npm run cy:run:edit-team-restrictions
429   rules:
430     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
431     needs:
432       - edit-team
433     allow_failure: true
434
435 email-upload:
436   extends: .cypress_test
437   script:
438     - npm run cy:run:email-upload
439   rules:
440     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
441     needs:
442       - edit-team-restrictions
443     allow_failure: true
444
445 escalate-actions:
446   extends: .cypress_test
447   script:
448     - npm run cy:run:escalate-actions
449   rules:
450     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
451     needs:
452       - email-upload
453     allow_failure: true
454
455 field-removal-api:
456   extends: .cypress_test
457   script:
458     - npm run cy:run:field-removal-api
459   rules:
460     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
461     needs:
462       - escalate-actions
463     allow_failure: true
464
465 field-removal-ui:
466   extends: .cypress_test
467   script:
468     - npm run cy:run:field-removal-ui
469   rules:
470     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
471     needs:
472       - field-removal-api
473     allow_failure: true
474
475 folder-specific-panel:
476   extends: .cypress_test
477   script:
478     - npm run cy:run:folder-specific-panel
479   rules:
480     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
481     needs:
482       - field-removal-ui
483     allow_failure: true
```

```

484
485 folder-structure:
486   extends: .cypress_test
487   script:
488     - npm run cy:run:folder-structure
489   rules:
490     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
491   needs:
492     - folder-specific-panel
493   allow_failure: true
494
495 invoice-date-filters:
496   extends: .cypress_test
497   script:
498     - npm run cy:run:invoice-date-filters
499   rules:
500     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
501   needs:
502     - folder-structure
503   allow_failure: true
504
505 manual-push:
506   extends: .cypress_test
507   script:
508     - npm run cy:run:manual-push
509   rules:
510     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
511   needs:
512     - invoice-date-filters
513   allow_failure: true
514
515 mbol:
516   extends: .cypress_test
517   script:
518     - npm run cy:run:mbol
519   rules:
520     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
521   needs:
522     - manual-push
523   allow_failure: true
524
525 ml-extraction:
526   extends: .cypress_test
527   script:
528     - npm run cy:run:ml-extraction
529   rules:
530     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
531   needs:
532     - mbol
533   allow_failure: true
534
535 multishipment-accrual-match:
536   extends: .cypress_test
537   script:
538     - npm run cy:run:multishipment-accrual-match
539   rules:
540     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
541   needs:
542     - ml-extraction
543   allow_failure: true
544
545 netchb-hawb:
546   extends: .cypress_test
547   script:
548     - npm run cy:run:netchb-hawb
549   rules:
550     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
551   needs:
552     - multishipment-accrual-match

```

```
553   allow_failure: true
554
555   netchb-mbol:
556     extends: .cypress_test
557     script:
558       - npm run cy:run:netchb-mbol
559     rules:
560       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
561     needs:
562       - netchb-hawb
563     allow_failure: true
564
565   new-manual-push:
566     extends: .cypress_test
567     script:
568       - npm run cy:run:new-manual-push
569     rules:
570       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
571     needs:
572       - netchb-mbol
573     allow_failure: true
574
575   operations:
576     extends: .cypress_test
577     script:
578       - npm run cy:run:operations
579     rules:
580       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
581     needs:
582       - new-manual-push
583     allow_failure: true
584
585   overdue:
586     extends: .cypress_test
587     script:
588       - npm run cy:run:overdue
589     rules:
590       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
591     needs:
592       - operations
593     allow_failure: true
594
595   overhead-push:
596     extends: .cypress_test
597     script:
598       - npm run cy:run:overhead-push
599     rules:
600       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
601     needs:
602       - overdue
603     allow_failure: true
604
605   owner-change:
606     extends: .cypress_test
607     script:
608       - npm run cy:run:owner-change
609     rules:
610       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
611     needs:
612       - overhead-push
613     allow_failure: true
614
615   owner-reassignment-inbox:
616     extends: .cypress_test
617     script:
618       - npm run cy:run:owner-reassignment-inbox
619     rules:
620       - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
621     needs:
```



```

622   - owner-change
623   allow_failure: true
624
625 owner-reassignment-ui:
626   extends: .cypress_test
627   script:
628     - npm run cy:run:owner-reassignment-ui
629   rules:
630     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
631     needs:
632       - owner-reassignment-inbox
633     allow_failure: true
634
635 pack-filter-sort:
636   extends: .cypress_test
637   script:
638     - npm run cy:run:pack-filter-sort
639   rules:
640     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
641     needs:
642       - owner-reassignment-ui
643     allow_failure: true
644
645 pack-migrations:
646   extends: .cypress_test
647   script:
648     - npm run cy:run:pack-migrations
649   rules:
650     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
651     needs:
652       - pack-filter-sort
653     allow_failure: true
654
655 pack-status:
656   extends: .cypress_test
657   script:
658     - npm run cy:run:pack-status
659   rules:
660     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
661     needs:
662       - pack-migrations
663     allow_failure: true
664
665 partners:
666   extends: .cypress_test
667   script:
668     - npm run cy:run:partners
669   rules:
670     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
671     needs:
672       - pack-status
673     allow_failure: true
674
675 permissions:
676   extends: .cypress_test
677   script:
678     - npm run cy:run:permissions
679   rules:
680     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
681     needs:
682       - partners
683     allow_failure: true
684
685 push-to-cw:
686   extends: .cypress_test
687   script:
688     - npm run cy:run:push-to-cw
689   rules:
690     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'

```

```

691   needs:
692     - permissions
693   allow_failure: true
694
695 revalidate-pill:
696   extends: .cypress_test
697   script:
698     - npm run cy:run:revalidate-pill
699   rules:
700     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
701   needs:
702     - push-to-cw
703   allow_failure: true
704
705 rollup-push:
706   extends: .cypress_test
707   script:
708     - npm run cy:run:rollup-push
709   rules:
710     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
711   needs:
712     - revalidate-pill
713   allow_failure: true
714
715 row-actions:
716   extends: .cypress_test
717   script:
718     - npm run cy:run:row-actions
719   rules:
720     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
721   needs:
722     - rollup-push
723   allow_failure: true
724
725 star-unstar-actions:
726   extends: .cypress_test
727   script:
728     - npm run cy:run:star-unstar-actions
729   rules:
730     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
731   needs:
732     - row-actions
733   allow_failure: true
734
735 starred-packs:
736   extends: .cypress_test
737   script:
738     - npm run cy:run:starred-packs
739   rules:
740     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
741   needs:
742     - star-unstar-actions
743   allow_failure: true
744
745 sticky-process-actions:
746   extends: .cypress_test
747   script:
748     - npm run cy:run:sticky-process-actions
749   rules:
750     - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null
|| $FILE == "")'
751   needs:
752     - starred-packs
753   allow_failure: true
754
755 tags:
756   extends: .cypress_test
757   script:
758     - npm run cy:run:tags
759   rules:

```

```
760 - if: '$ALL == "Y" && $TESTS_TO_RUN == "" && $CODE == "" && ($TITLE == null || $TITLE == "") && ($TAG == null || $TAG == "") && ($FILE == null || $FILE == "")'
```

```
761 needs:
```

```
762 - sticky-process-actions
```

```
763 allow_failure: true
```

[#cicd-qa-automation-pipeline](#) < Slack Channel

[Screen Recording 2024-08-28 at 00.28.21.mov](#) < original pipeline options vid

[Message from Stephen Agius in #cicd-qa-automation-pipeline](#) < iterative vid

[Using QA Automation](#) < Docs for use

Aug 8, 2024

We still have errors in the pipeline

[🔥 SAML single sign-on for Raft · GitLab](#)

Moved back to creating a working docker image as the idea is to try and pass the commands as and when need in some manner.

I now have a docker image that will run with a select test choice ie:

```
docker run --rm cypress:13.13.1_Agius . ← will run all 89 tests
```

```
docker run --rm cypress:13.13.1_Agius cypress/e2e/teams/create-team.spec.js ← will run the selected test of create-team.
```

Im not fully versed with [🔥 Use Auto DevOps to deploy an application to Google Kubernetes Engine | GitLab](#) but maybe this could be an option to create the image and deploy to GKE to run the test or even pull in our created image to a gitlab pipeline