

Testing Policy - Docks

TripleParity

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1 Testing Process

1.1 Peer Review

Before code can be merged into the develop branch a Pull Request has to be created. Three reviews are required from other developers before the pull request can be merged into develop.

During peer reviews the following should be checked:

- Architectural problems - will this cause problems in the future?
- Compliance with requirements and design - is that what we need?
- Coding Standards - proper code formatting and security standards?

1.2 Automated Testing and Continuous Integration

When a commit is made to the 'docks-ui' repository on GitHub two processes are started:

- [Travis CI](#) Builds the repository
- [Docker Hub](#) builds the repository and creates a Docker Image that can be deployed in production

1.2.1 Travis CI

The history of test reports for Travis CI can be viewed at <https://travis-ci.org/TripleParity/docks-ui/branches>. If the build was not successful it will be marked as 'failed'

Travis CI is used for running tests associated with each repository.

For the frontend Angular generates a set of tests for each component to verify that the component was successfully created. These tests run inside a headless (no screen required) Chrome browser.

The backend also has a suite of unit tests that are executed on Travis CI.

Default Branch

✓ master 1 build	# 48 passed 27 days ago	ff703e7 Evert Geldenhuys	✓					
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Active Branches

∞ networks2 3 builds	# 263 started -	10affa1 CDuPlooy	⚙	✓	✗			
✗ loginPage 2 builds	# 262 failed 19 minutes ago	95d81d1 Paul Wood	✗	✗				
✓ develop 19 builds	# 261 passed 29 minutes ago	8119ea9 GitHub	✓	✓	✓	✓	✓	✓

Figure 1: Screenshot of Travis CI branch build history

1.2.2 Docker Cloud

Docker images are build on [Docker Cloud](#). These image can then be deployed in a production environment or for development and testing. Images can be viewed at <https://hub.docker.com/u/tripleparity/>

12 minutes ago	⌚	Build in 'loginPage' (95d81d14)	✓
23 minutes ago	⌚	Build in 'develop' (8119ea9d)	✓
28 minutes ago	⌚	Build in 'volumeHtml' (a16d336b)	✓
37 minutes ago	🔄	Build in 'service-operations-#41' (4a388ff5)	✓
an hour ago	✓	Build in 'service-operations-#41' (5ab5d577)	✓
an hour ago	✓	Build in 'volumeHtml' (98dd996b)	✓
an hour ago	✓	Build in 'networks2' (d06c71ae)	✓
an hour ago	✗	Build in 'service-operations-#41' (d3b56073)	✗
an hour ago	✗	Build in 'networks2' (20c6f673)	✗
an hour ago	✓	Build in 'service-operations-#41' (911d1723)	✓

Figure 2: Screenshot of Docker Cloud Build History