# Voyage Testing Strategy

## Document Information

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## Document History

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## Overview

This document provides an outline of the testing strategy approach that MediaCat will be using for their open-source project Voyage. Developers whom wish to contribute to this project will be expected to follow this process in order to ensure the quality of the project remains high.

## Strategy

1. Unit Testing
   * We will use PyTest to create unit tests for the smallest units of the voyage project. Test cases should be concise, but the suite of test cases should cover a good sample of expected results to ensure correctness
2. Regression Testing
   * Regression tests will be required with new features. This is important as we want to avoid breaking previous working features when we add new features or change old ones. Again, PyTest will be used to create these tests.
3. Continuous Integration
   * Each push to git will result in Travis-CI running the set of unit tests and regression tests that are applicable to continuous integration. Only once these tests pass without error may the feature move on to the User Acceptance Testing phase mentioned below.
4. User Acceptance Testing
   * When a new feature has made it past the previous steps, and has been code reviewed it is ready for the testing environment. Here the working group will be able to work with the new features and raise any issues of concern. If the end-user is satisfied and the project is stable with the new features it then can move on to the deployment environment.