

CI/CD for iOS with Jenkins #2

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- The goal is to create a CI/CD for running a series of automated tasks.
 - Automated build and test for production/staging
 - Both Unit test & UI test
 - Release a beta with a single command
 - Release the app to App Store with ease



Intro (Why Jenkins with **Multi-branch pipeline**)

- Key benefits of “**Multi-brach Pipeline**” that we can set pipeline for each branch

For examples

- Alpha builds from the feature/* branches
- Beta build from the develop/ branch
- Release builds for master/ branch

Automated builds from any of the feature branches we had built automatically when code was pushed

The problem was that all of the different feature branches were built by that one single job

Achievements and progress (Part 2)

- Jenkins for Travelbook (better result)
- Created simple model User test cases on Travelbook iOS project
- Integrate with Fastlane
- Achievements in Test reports (JUnit and XCPretty)
 - Need to change from node pipeline to Declarative pipeline
 - Post condition build
 - Report XML for test results.

Achievements and progress

The screenshot shows the Jenkins 'Test Result' page for the 'travelbook_test' package. The page has a blue header with the NIMBL3 logo and navigation links. On the left, a sidebar contains links for History, Get Build Data, No Tags, Test Result (selected), Rebuild, Pipeline Steps, Previous Build, and Next Build. The main content area displays the test results for the 'travelbook_test' package, showing a duration of 0.41 sec and 4 tests (all passed). A table titled 'All Tests' lists the test results with columns for Package, Duration, Fail (skt), Skip (skt), Pass (skt), and Total (skt). The table shows that all 4 tests passed.

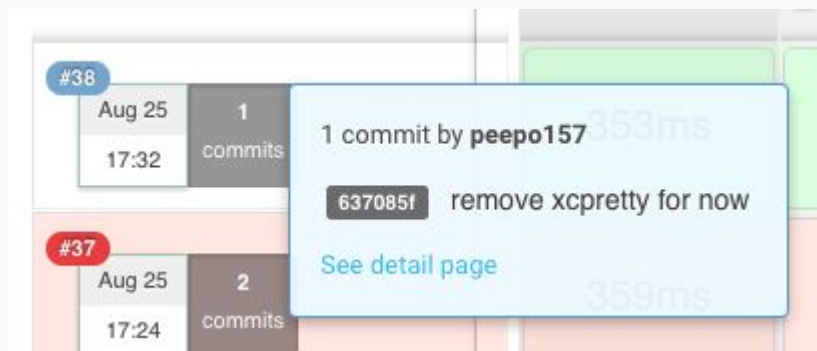
Package	Duration	Fail (skt)	Skip (skt)	Pass (skt)	Total (skt)
travelbook_test	0.41 sec	0	0	4 +4	4 +4

Page generated: Sep 22, 2017 5:51:56 PM KCT REST API Jenkins ver. 2.75 aforsof.com/jenkins/material-theme v. 1.3.3

The screenshot shows the Jenkins 'Pipeline View' for the 'chore/jenkins' pipeline. The page has a blue header with the NIMBL3 logo and navigation links. On the left, a sidebar contains links for Up, Status, Change, Build Now, View Configuration, Full Stage View, and Pipeline Syntax. The main content area displays the pipeline view, showing a 'Test Result Trend' graph and a 'Stage View' table. The 'Stage View' table lists the stages of the pipeline: Declarative Checksum, Check PATH, Checkout, Check Google, Checkpoints, Build and Test, and Declarative Post Actions. The table shows the duration of each stage and the overall pipeline duration.

Stage	Duration	Success	Failure	Skipped
Declarative Checksum	11s	100%	0%	0%
Check PATH	11s	100%	0%	0%
Checkout	11s	100%	0%	0%
Check Google	11s	100%	0%	0%
Checkpoints	11s	100%	0%	0%
Build and Test	2min 47s	100%	0%	0%
Declarative Post Actions	11s	100%	0%	0%

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All Tests

Test name

[testDeserializeUser](#) ▼

[testUserProperties](#)

All Tests

Test name

[testDeserializeUser](#) ▼

[testUserProperties](#)

Problems

- Fastlane need to export PATH terminal with en_US.UTF-8
- iOS Simulator (iPhone 7) not launch properly.
 - Need to relogin Jenkins user as main users of Macbook

Now you know how to write your own **CI/CD** process using **Pipeline Modules** in **Jenkins 2.0**. It's your turn to build the **Jenkinsfile** that needs your team.

Thanks!

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