ISSUE/ERROR REPORT

MEng Year 3

Department of Electronics

University of York

Software Engineering Group 4

Document Control

Version	Modified By	Date	Section Modified	Remarks
1.0.0	N Billis	29/5/20	All	Initial Document Creation
1.1.0	NBillis	2/6/20	All	Final release

Table of Contents

1. Introduction

1.1. Purpose and Scope

This document aims to cover the issues/errors encountered during the development of Scran Plan. It will have statistics from Sentry and Travis-CI. It will also elaborate how they both work. This is a retrospective report written by the testing and integration manager.

This document aims to cover:

- QA Assurance as part of the testing and integration manager's QA Metrics.
- Sentry and Travis-CI usage

The application ScranPlan aims to help users batch cook meals on a budget. The user can select and collate recipes that they plan to cook for that week and create an in app shopping list that is constructed from the ingredients that the user specified they do not own. With the added ability of creating a personalised profile, the user will be able to tailor the application to their tastes so that they can filter out any of the recipes that don't suit, save their favourite recipes and share them with their friends.

2. QA Metrics

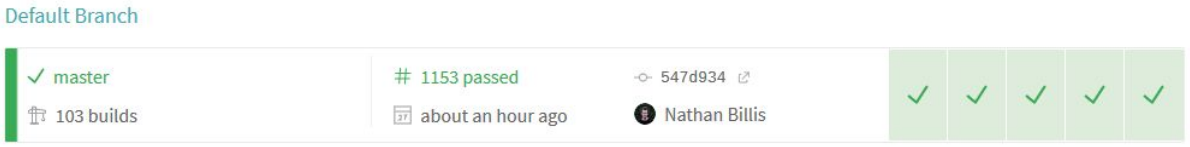
https://github.com/SWEngGroup4/scranplan/issues

Number of Issues Resolved	62
Number of Issues	62
Number of Issues Unresolved	0

3. Sentry and Travis-CI | Statistics

We use both Sentry.io and Travis-CI to track the issues that occur in the application. Sentry captures app crashes or exceptions from within the app and travis monitors the app's build status. Over the course of the project we aimed to have the master always building without issue. Sentry on the other hand catches all exceptions including when the app was being developed which makes it hard to segregate which are recurring issues and what is just from development.

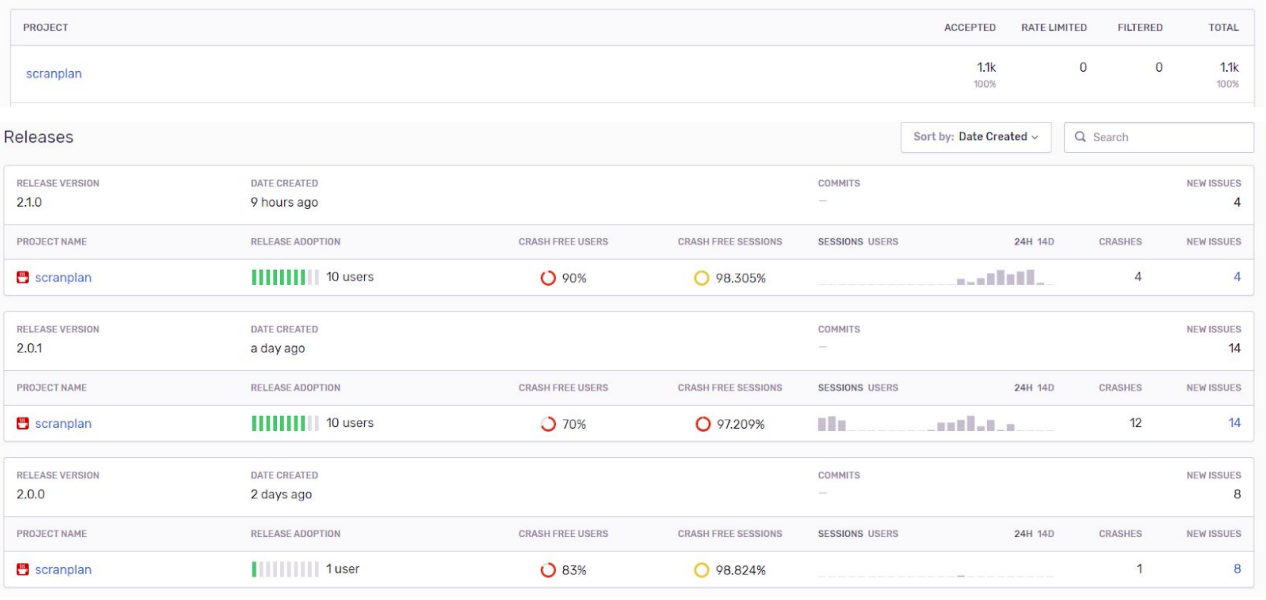
Branch	Number of Builds	Number of Successful Builds
All	1157	~1057
Master	103	103



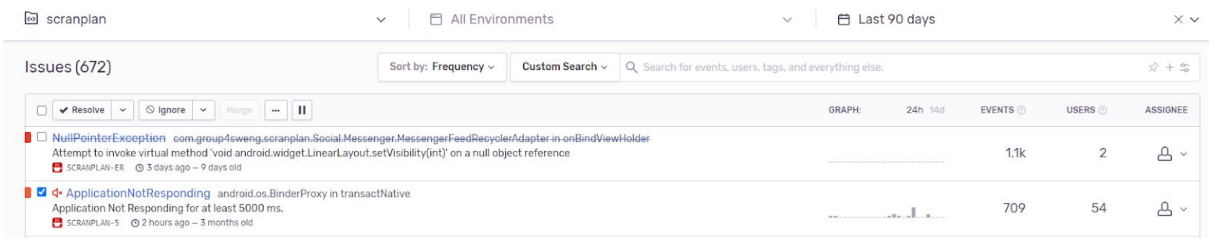
We do not have exact numbers of successful builds every single pull request on GitHub had a successful build which ensured the 100% success rate for the master branch. We estimate that around 100 failed during development but this was rectified before the merge to the master branch.

Full Travis Stats here: https://travis-ci.org/github/SWEngGroup4/scranplan

Sentry on the other hand has different ways to measure issues, the testing and integration manager would monitor sentry for recurring issues and open GitHub tickets as appropriate. Over the course of development sentry.io clocked over 1.1k issues/app crashes. Mainly happening during development.

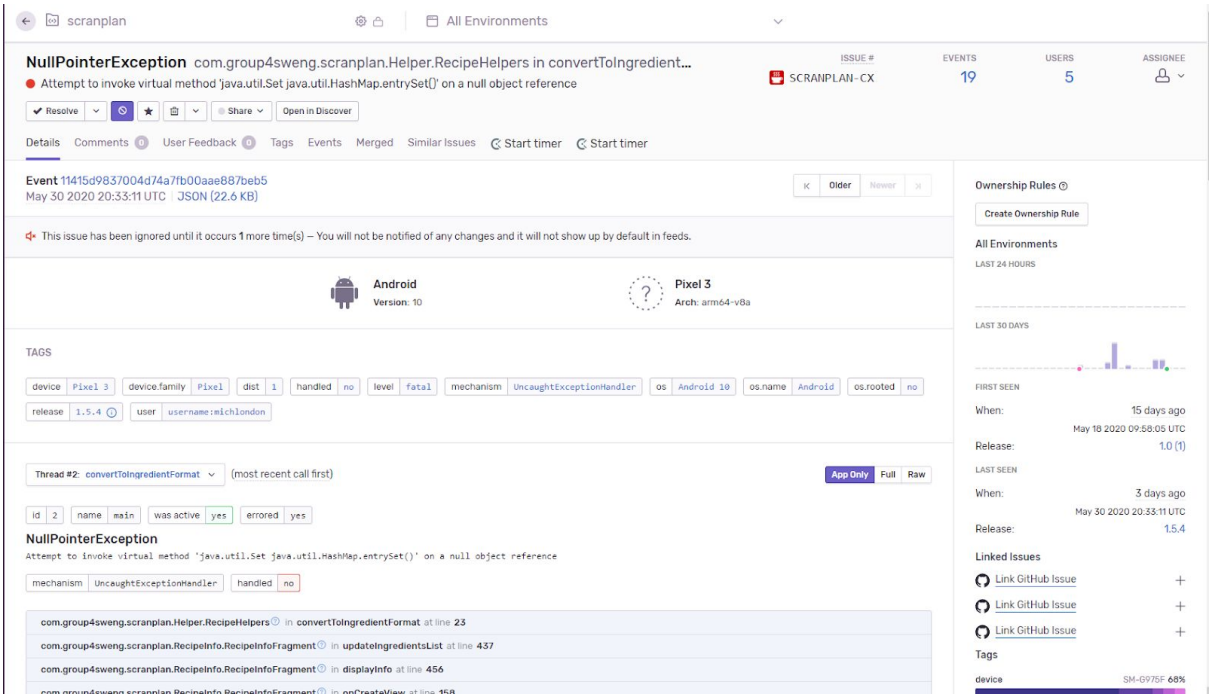


In the latest releases the app becomes a lot more stable but developers are still working on bug fixes which is what's causing the crashes to register. However the vast majorities of sessions were crash free with 232 sessions out of 236 on the latest release.



Issues causing the most events

The issue causing the most events is here:
https://sentry.io/share/issue/bc0bc78a22b24c77a59c9d61eb3f2b12/
With the app not responding coming second, ANR issues were not due to the app but instead the device idling. Sentry has been an invaluable tool which has allowed us to catch and debug many issues a lot faster than conventional techniques.



Example of the Sentry Dashboard