

# Software Configuration Management

TakuMahi Evidence Review Two

# Configuration Items

Configuration Items are components of our project. They can range anywhere from user feedback to code

Items we will track:

- Source Code
- Project Issues
- Stakeholder Feedback
- Functioning Builds / Milestones
- External libraries used in the project
- Git & GitBucket

## Configuration Items - cont.

Item we won't track:

- Compiled source files
- Temporary files / directories
- Workspace configuration files
- Evidence review files

These items are unimportant and / or detrimental to the codebase. They can weigh down the repository and even cause issues across different work stations. So we will be omitting them from the tracking system.

# Why Git?

We will be using Git to track changes to our project for multiple reasons.

- Git scales very well to different team sizes.
- Git stores all versions of a project
- Git allows developers to manage their own workspace.
- Git is also storage efficient.

We will be primarily using Git and GitBucket to track changes in our project. Git itself can track changes to the source code builds. GitBucket allows us to track issues and we can also track feedback and external accreditation through wiki.

# What is Continuous Integration?

Continuous Integration (CI) is a set of tools used to maintain code quality and analysis. The fundamental use of CI is to build the whole project from the source code, and then run the projects testing suite against it. Other services can also provide further insight into the codebase, including test coverage and formatting.






In our project we will be using:

- GitBucket CI
- CodeCov - [codecov.io](https://codecov.io)

# Test Builds using Continuous Integration

In these screenshots you can see where we purposely broke the build to show the shift in status.

We also added the build badge to the home page of the repository

|  |   |  |
|--|---|--|
| #5 by <b>ducle591</b> at 6 minutes ago |  master<br> be33629 | Fix Demo Build<br>Tommy Hasselman        |
| #4 by <b>ducle591</b> at 7 minutes ago |  master<br> ee1aea8 | Break Demo Build<br>Tommy Hasselman      |
| #3 by <b>ducle591</b> at 8 minutes ago |  master<br> 63611c3 | CI Demonstration Code<br>Tommy Hasselman |



ducle591 / **TakuMahi**

Info310 project

branch: **master** ▾



**Tommy Hasselman** authored 1 minute ago



CI Build Demonstration

Fix Demo Build



INFO310\_Project\_Management.xls

User Stories Documented



README.md

Added Build Badge



TakuMahi - Presentation Slides.pdf

Presentation Slides



**README.md**

**Build Status:** 

# Team Contribution Dynamics

- We will work on features from the product backlog, in either groups or individually.
- We will work on features in parallel and in separate branches as needed.
- If we run into problems we can raise the issue in our group chat, or potentially revert back to a past version of our branch if we can't resolve that issue.

## Team Contribution Dynamics - continued

- Whoever is scrum master at that time will be responsible for merging the feature branches into the master branch.
- We will create automated tests for features while we work on them.
- We will all agree to run the build script and tests before pushing code to a branch.



# Resources

The tools we will use to develop & manage TakuMahi

- Jooby (Web Framework)
- Firebase (Database)
- FaceBook Messenger (Messaging Platform)
- GitBucket
- Insomnia
- Workspace Integrated Development Environment (IDE)
- Automated Test Suite such as JUnit
- Codecov

Thank you for your attention.

Are there any questions at this time?