

# Project Proposal

CSE 403

Taylor Yoon (yoont4)

Yifei Song (yifeis)

# Motivation

- Test suites in large code base is hard to keep track of.
- Current code coverage tools, such as EcEmma, only provide coverage percentage metrics, which is not informative enough.
- A visualization of what and how modules are tested could help developer better understand the quality of the test suites, improving testing productivity.

- Proposed Approach

- Emulate running test suites and analyze how modules are tested in each test case.
- Test coverage visualization by displaying crucial paths of modules being tested in form of a illustrated map

- Challenges and Risks

- UI Implementation
- No Existing software to reference of this type/scale
- Limited time
  - Design mistakes could cost the project

