

# In-Class Activity 4: White-box Testing

# Overview

- Create white-box test cases for a web app
- Learn about a program analysis tool
- The tool: WAM
  - Available via Blackboard
  - Must customize shell scripts and config files
- Hint: read the paper on how to use WAM

# Goals

1. All goals from ICA-1
2. Run and configure program analysis tool
3. Understand the WAM approach
4. Generate and run test cases based on WAM output

Blank

# Implement the Following

1. Use WAM output to create a test suite that achieves 48% statement coverage (10min max runtime)
2. Fully automated
  1. Run WAM
  2. Generate test cases
  3. Run test cases (time bound)
3. Use new app for full credit

# Grading

100 total points

- 15 points for the quiz
  - 20 points for in-class checkoff (late credit until 10/14)
  - 15 points for complete automation
  - 35 points for coverage goal
  - 15 points for using empldir
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- 10 point bonus for highest in-class
  - 10 point bonus for highest overall

# Submit

1. Shell scripts
2. Test case files
3. Coverage report