

The background is a teal color with a white circuit board pattern. A diagonal white cutout is present, starting from the top-left corner and extending towards the bottom-right corner. The text "Milestone 6" is centered in the lower half of the image.

# Milestone 6

# Task Matrix

Progress of current Milestone:

Task	Completion	Ian	Dylan	Todo
Implement, test, and demo containers for Operating System Concepts and Programming Language Concepts	100%	0%	100%	
Test/demo of the entire system	100%	100%	0%	
Conduct evaluation and analyze results	100%	50%	50%	
Create user/developer manual	100%	90%	10%	
Create demo video	100%	0%	100%	



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**New Containers**

# Programming Language Concepts

- ① Contains tools necessary to compile for different programming languages used in CSE4250
  - ② C, C++, Ada (gnatmake), Go, Rust, Fortran, Haskell, SWI-Prolog

# Operating Systems Concepts

- Contains a functional OS/161 system under the ~/os161 directory.
- Comes with the tools required to build OS/161
  - binutils 2.24
  - gcc 4.8.3
  - gdb 7.8
  - nmake 2010-12-15
  - mk 2010-06-12



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**Test Entire System**

# Getting Tests Working

- ① Finished test suite
- ① Fixed all bugs found by test suite
  - ① Issues with build command
  - ① Issues with repository upload

# 2

## Evaluation and Results



# User Satisfaction

## Based on the user satisfaction survey:

- 2/3rds of Compiler Theory students used our tool to complete the assignments, of which 75% preferred it to the previous solutions.
- Students who used our tool generally found it to be satisfactory.

However, the survey had a low amount of responses, so it may not be representative of the whole class.

# Experiments

- Subjects had trouble recalling how to use the jab command line tool.
- Subjects who were able to give answers to questions generally gave correct answers.
- Subjects complained about poor documentation.



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**User Manual**

# User Manual Content

- ① Summary of tool
- ② Information for students and instructors
- ③ Information on all commands
- ④ Information on custom containers, building, and repositories

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**Demo Video**

# Demo Video

- ① Demonstration of the core features of the program
- ② Demonstrate use-cases of the program



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**Lessons Learned**

# Lessons

- ① Importance of Communication
- ② Document Throughout
- ③ Time Management
- ④ Task Prioritization



# THANKS!

*Any questions?*