CS3560
Maze Solver
Milestone 3

Spring 2023

Project details

Members (5):

-Nick Andujar

-Chase Deweese

-Tyler Hixon

-Norman Lee

-Max Shumaker

Class:

CS 3560 (11-12:20, T/TH)

Github Repo Link

https://github.com/OU-CS3560/maze-solver

Intended Project:

A system that when fed a maze through an image or through node mapping will systematically step through each junction and output the solution.

Platform:

This project will be completed through C++, and is intended to be compiled on any Windows or Linux platform with a C++ compiler

Instructions to Compile and Run:

-Run "g++ -Wall map.cc" in the bash.

-Then run "./a.out".

-Alternatively, a make file is available

Technology Stack/Tool Chain

- WSL on Windows Laptops

- Github

- Visual Studio Code

- Xcode on Mac Device

- Terminal on the Mac Device

- Doxygen

- CppChecker

Device Access

- All members have sufficient technology to be able to access and complete the project

Responsibilities and Assigned Tasks

- Nick Andujar
  - Manager
  - Test files
  - Intersection stack fixes
- Chase Deweese
  - Code modifications for .h file addition
  - CppChecker

- Tyler Hixon
  - Creating presentation
  - Intersection function modifications
  - Color testing implementation

- Norman Lee
  - Organizing meetings
  - Doxygen documentation
- Max Shumaker
  - Scribe
  - Copy node function optimizations
  - Document prep for Doxygen

Next Milestones

Milestone 4

- Finish the user interface

- Use more software tools that are not the two that we used before, doxygen & cppchecker

Git Repo walk-through

Git Repo Overview

- Project functionality is mostly within map.cc

- Two more folders containing meeting minutes and presentations.

- DS_Store file used to ensure compilation works properly

- Tasks.txt file serves as a to do list of work.

- Input.txt used to send directions to build a maze in the main program.

	WV26003 Updated TODO List as of 3/8/2023		672bb0c now	🕐 85 commits
📁	meeting_minutes	hopefully this fixes issues		yesterday
📁	presentations	updated our slides		2 weeks ago
📄	.DS_Store	hopefully this fixes issues		yesterday
📄	Makefile	Removed input.txt from archive.		yesterday
📄	README.md	added to the readme		2 weeks ago
📄	VariableControl.txt	Updated VCD		2 weeks ago
📄	a.out	hopefully this fixes issues		yesterday
📄	input.txt	added file with directions		2 weeks ago
📄	map.cc	Fixed Various Errors and made directions a Vector		39 minutes ago
📄	tasks.txt	Updated TODO List as of 3/8/2023		now

Team Communication Plan

- Utilize MS Teams, Discord, and SMS to plan meetings, discuss the project, and fix issues

- Meeting Time Slots:
    - Mondays @ 8pm
    - Fridays @ 5pm

Team Workflow For Checkpoint 3

1		2		3		4		5		6		7
Each person implements assigned functions on own machine on personal copy of repository	→	Clone project repository on machines	→	One member commits and pushes implemented and working function to project repository	→	Each member performs "git pull" to update on personal machine	→	Steps 3 and 4 continue until all members have implemented their assigned function for the working session	→	Test and run code with all implemented functions	→	Assess errors and assign updated tasks to each team member