Future Developer's Documentation

CS 3300-002 Spring 2025

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General

      This project (John Doe Portfolio) is a mock portfolio website created for academic purposes as part of CS 3300-002. The website is designed to showcase small coding projects, such as simple games and an encryption tool, in a clean, organized way. It serves as a demonstration of basic web development skills using HTML, CSS, and JavaScript, as well as experience working with hosting services like GitHub Pages and domain management through GoDaddy.

      The portfolio is intended to be maintainable over time, with documentation provided to assist with bug tracking, future updates, and potential project expansions.

      This document can be considered a Maintenance Manual or Developer's Documentation.

Projects on Portfolio

Hill Cipher

Description:

- Encrypts and decrypts messages using a 3x3 Hill cipher matrix.

Technology Stack:

- HTML, JavaScript, CSS (custom for page)

Known Bugs:

- Decryption sometimes fails (see Bug Tracker).

Maintenance Notes:

- If embedding issues persist on GitHub Pages, consider self-hosting.
- Double-check math calculations, test with different keys.

Snake

Description:

- Embedded Snake game.

Technology Stack:

- HTML, Python

Known Bugs:

- Game does not end when snake interacts with boundaries (see Bug Tracker)
- Does not embed properly to GitHub Pages (see Bug Tracker)

Maintenance Notes:

- If embedding issues persist on GitHub Pages, consider self-hosting. Could also consider having the game cause a separate pop-up window.
- Check code to ensure that game functions properly.

Tic Tac Toe

Description:

- A simple Tic Tac Toe game.

Technology Stack:

- HTML, JavaScript, CSS

Known Bugs:

- Game does not end after someone wins (see Bug Tracker).

Maintenance Notes:

- Add additional functionality:
    - A time limit

- o   Score board
- o   An 'X' or 'O' marker disappearing after 3 moves
- Ensure project is properly available on website

Blackjack

Description:

- A simulated version of a blackjack table.

Technology Stack:

- HTML, Python, CSS

Known Bugs:

- TBD

Maintenance Notes:

- If embedding issues persist on GitHub Pages, consider self-hosting.
- Add 'Challenge Mode', by removing card counter and having a timer instead.

Ideas for Future Projects

Lottery Simulation

Description:

- Simulates a simple lottery drawing.

Technology Stack:

- HTML, JavaScript, CSS

Notes:

- Find a way to incorporate winnings from Lottery game with the blackjack project. To do this, finding a new host would most likely be required as GitHub Pages does not offer that kind of interactivity in a simple way.

Bug Tracker

Date	Bug Found	Fixed?	Notes
4/21/2025	The Snake Game fails to properly embed into the site	In-Progress	This is a GitHub Pages issue and would most likely require finding a new host.
4/21/2025	Hill cipher does not properly decrypt the message it creates.	In-Progress	This is either an issue with the math or the embedding into GitHub Pages, under investigation.
4/21/2025	Tic-Tac-Toe game does not end after someone wins.	In-Progress	Cells can continue to be filled until the board no longer has any empty spaces.

Table 1. This table will be updated as bugs are discovered and fixed

Hosting Information

Host: GitHub Pages

Domain Name Service Provider: GoDaddy
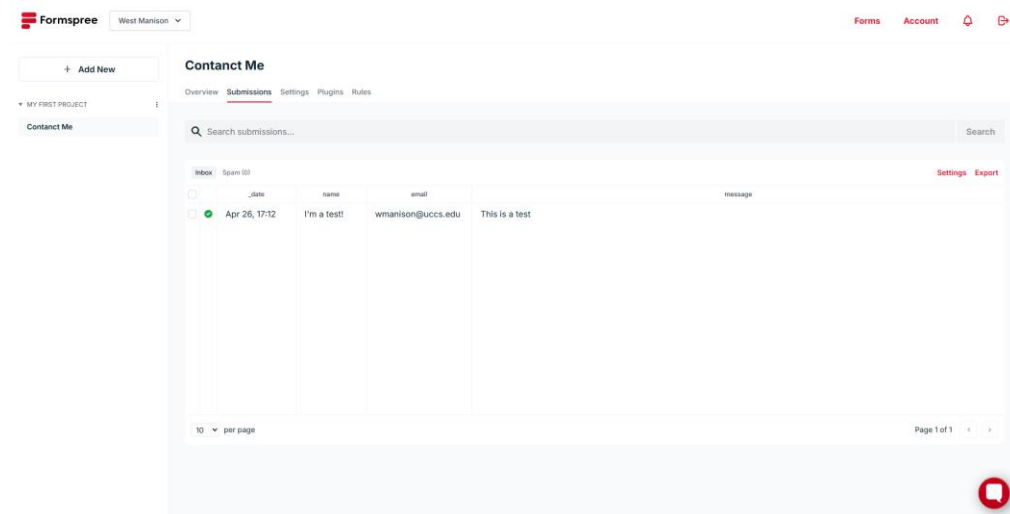
Contact Form Host: Formspree

Figure 1 Example of contact me submission

Known Issues:

- GitHub Pages might not fully support interactive projects like Snake.
- GitHub Pages does not support server-side code or database functionality.

Maintenance Notes:

- Explore alternatives if problems persist.
- Ensure CNAME file is properly formatted to allow website to use the proper Domain.