

Learning Diary: TankQuiz Project

Project Overview

TankQuiz is a responsive web app I built to help users learn about modern tanks through interactive flashcards and quizzes. It features a clean, modern interface, works well on both desktop and mobile, and includes fun elements like flip cards and expandable quiz questions.

What I Learned

- **HTML & CSS Layouts:** I got more confident with structuring HTML in a clean, maintainable way. I also used CSS Grid and Flexbox to build layouts that adjust smoothly across screen sizes.
- **Interactive UI Design:** I used CSS 3D transforms and JavaScript event listeners to bring the flashcards to life. I also implemented an accordion style design for the quiz answers, which keeps things neat and user friendly. The accordion style was very hard to use at first
- **Separation of Concerns:** I made sure that the flashcard and quiz sections were independent of each other, so updating one doesn't accidentally break the other.
- **Responsive Design:** I practiced making the site look good on different devices using media queries and flexible layout techniques.
- **Version Control:** I used Git throughout the project, staging, committing, pushing to a remote repo, and learned how helpful it is to write clear commit messages and keep good documentation.
- **Licensing:** I explored open source licensing options like MIT and investigated what "All rights reserved" really means, especially when I want more control over how the project is used.
- **Documentation:** I wrote a detailed README to explain how the project works and how others (or even future me) can use or customize it.

Challenges I Faced

- One tricky part was making sure expanding quiz answers didn't mess up the flashcards visually. I fixed this by keeping the flashcards and quiz sections separate and using scrollable areas with fixed heights.
- It was also a bit of a challenge to keep the UI looking consistent across different browsers and screen sizes.
- Picking the right license and explaining usage terms clearly took some extra thought and research.

Next Steps

- Add more quiz questions and flashcards to cover a wider range of content.
- Look into adding features like user login or progress tracking.
- Explore options for deploying the app online so it's easier to access and share.

Reflections

Working on TankQuiz gave me a great opportunity to practice modern web development, especially in creating interactive and responsive interfaces. It also highlighted the value of good documentation and version control, things that are just as important as the code itself when it comes to building a useful and maintainable project.