



HOMA

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PROBLEM

During the Spring 2023 semester, I worked on developing a website that displays a comparison between HOMA transport protocol, TCP, and UDP.

SYSTEM DESIGN

The website's frontend was implemented using JavaScript, HTML, CSS with the comparison information stored in the backend using MYSQL. The system was designed so that the website could be run in a web browser.

VERIFICATION

Changes were manually tested on PC web browser. This ensured features were successfully implemented and merged into the final product

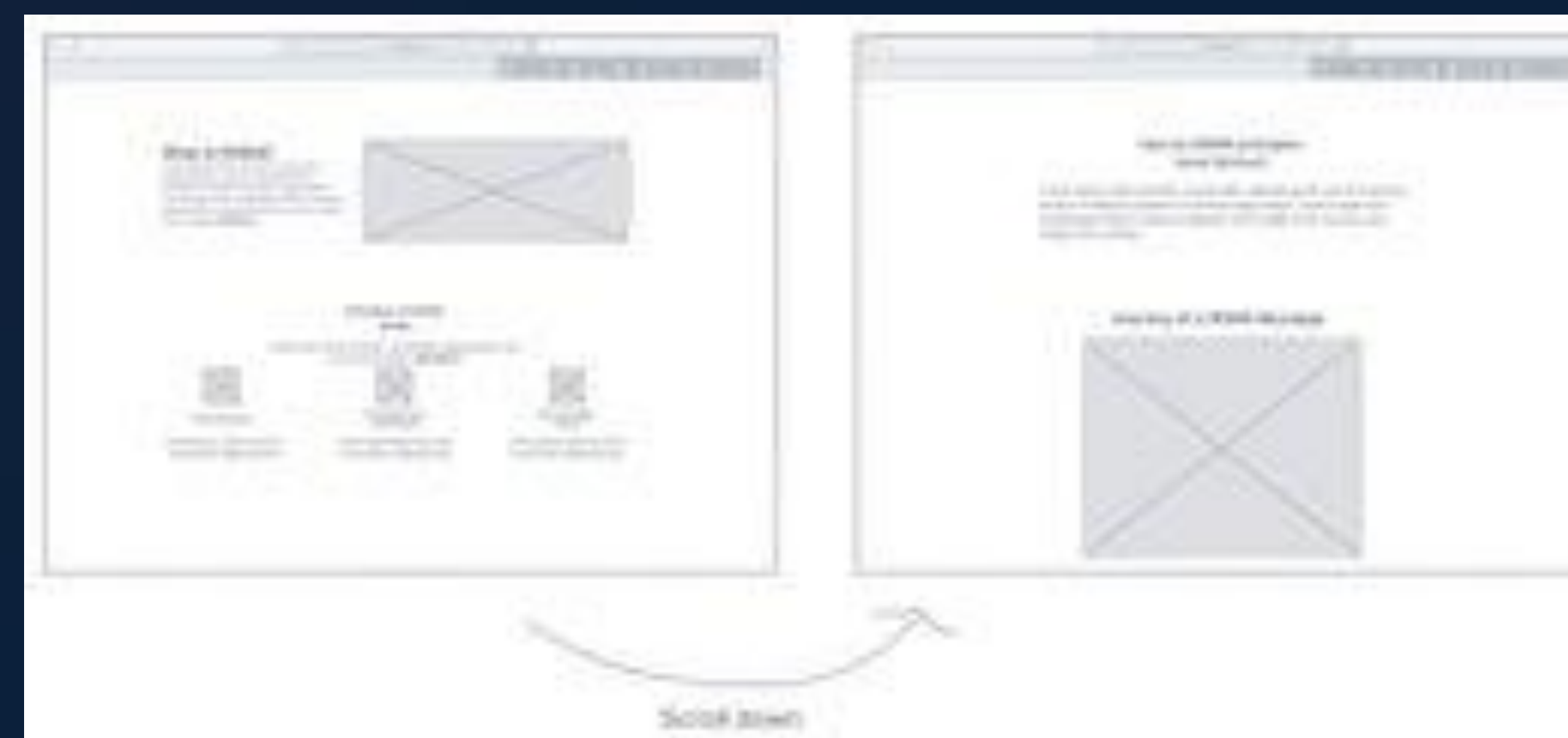
IMPLEMENTATION

This program is meant to run in a web browser, either mobile using a smart phone or on a computer. This is to increase its accessibility as well as making it public.

CURRENT SYSTEM

The current systems are JavaScript, HTML, CSS frameworks for front-end development.

MYSQL and NodeJS frameworks were used for back-end development.



REQUIREMENTS

The requirements to develop the software were:

- A computer with a web browser such as Google Chrome or Safari
- MYSQL to be used for the program database
- NodeJS to be used for the back-end
- JavaScript, HTML, and CSS to be used for the UI

To test the program functionality:

- Node to run the project outside of web browser
- Web browser
- Git Bash or GitHub Desktop to clone the project from the directory into your local machine.

SUMMARY

Through the semester, I focused on implementing the front-end and the back-end of the website. I worked on developing the TCP comparison page, UDP comparison page, the design, and the navigation overhaul.

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ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by XXXXX (name of the project sponsor: federal, state or local government, or corporate partners, where applicable). We/I thank XXXX for his/her/their assistance and mentorship that I/we received throughout the senior design project.