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Professor Engelsma

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Team Civil: Prospectus

Introduction

Our team for this capstone project consists of Luke Bonner, Amaka Ezuruonye, and Hayden Garret. Each of us has some experience in web development and will work together this semester to better hone our skills and contribute to the success of this project. Our goal is to expound upon a previously started website to help improve the site both contextually and visually by adding data/information and updating the framework.

Team Member Technical Backgrounds and Expected Growth

Luke is a senior of Computer Science, with a background in web app development both from his study at GVSU and from employment outside of his studies. While he has found enjoyment in web development, he does not know if that is ultimately what he will choose to pursue as a career as cybersecurity and cyber forensics appeal to him. With his experience in web development, he intends to make his work with Team Civil go smoothly and to attempt to propose solutions when troubleshooting hits a wall.

Amaka is a senior Computer Science major who has worked with some HTML, CSS and minor Javascript in prior classes and hopes to work in Software, Web or Game Development upon graduating. She also has experience with coding in Java, C, Assembly, C#, and Python and is currently taking CIS 343: Structures of Programming Languages which she hopes will help her improve her programing and logic skills. Though she is far from an expert in web development she hopes to improve her personal and professional skills and expand her knowledge over the course of the semester in order to help her teammates deliver a successful project.

Hayden is a senior majoring in Computer Science with a little experience doing web development. He is enrolled in Web Application Programming to help strengthen his web development skills and has experience with some HTML, CSS, and the .NET framework. This semester, he wants to gain a better understanding of web programming to help Team Civil create a product that our sponsor envisioned and in hopes of a career in mobile or web development.

Project Overview

For our capstone project we will be working with Professor Jeff Kelly Lowenstein to add to an existing website that has been constructed by past computer science capstone students. To start we have been presented with a world map which displays and gives details about countries civil discord rating, population, media access and censorship whilst providing links to the main website - the Global Disinformation Index. This index contains

details for each country such as politics, citizenship, and media which we hope to improve and update as we work over the course of the semester.

Project Goals

As a group we are looking to add to the main website and the world map by including stats, details, interviews and relevant articles or news stories that help to explain the civil state in each country. We would like to be able to add depth and detail to the website and map that allows viewers to get a full scale view of what is happening in a country and how their politics are playing a role in society today. If there is civil discourse or disarray, we hope to be able to better highlight what's fueling the political divide, how the people feel and who's in charge. We hope to be able to include information about how and why civil discourse occurs in a country as well as what's being done within its borders to help solve the problem.

Accessibility

When it comes to our site, we understand the importance of having a webpage be accessible to all. While we work on this project we would like to be able to verify that our website includes accessibility to those who use additional resources to access their technology, this includes but is not limited to making sure our web pages have their main content within the html tags, providing readable, understandable, visually engaging content and clear guidelines that allow access to everyone who may be interested in what our site has to offer.

Platforms and Tools

1. **GitHub**: A provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management functionality of Git, plus its own features.
2. **ZenHub**: An agile project management and product roadmaps solution, natively integrated into GitHub.
3. **AWS**: Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.
4. **NodeJS**: An open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
5. **Visual Studio Code**: A source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

8 ACM Ethical Principles:

1. **1.2**: Avoid Harm
2. **1.4**: Be fair and take action not to discriminate
3. **1.3**: Honest and Trustworthy - Communicate by being open and honest with each other and our sponsor with any questions, concerns or problems that may arise.

4. **1.6: Respect Privacy**
5. **1.7: Honor Confidentiality**
6. **2.2**: Maintain high standards of professional competence, conduct and ethical practice
 - Credit any references to data or code used within our project.
7. **2.6**: Perform work only in areas of competence - Work as a team and help each other when needed/requested.
8. **3.5**: Create Opportunities for members of the team to grow as professionals - Take responsibility for work both individually and as a team.