1: Executive Summary

2: Competitive analysis

3: Data Definition

4: Overview, scenarios, and use cases

5: Initial list of high-level functional requirements

6: List of non-functional requirements

1-Security Requirements: The system will prevent XSS attack by validating all user input. No user information is collected, so there are no concerns about a secure back end. Modification to the deployment system used will be password restricted with possible MFA.

2-Dependability Requirements: We are constrained to deployment on an FAU LAMP server, but we should be able to host the page on an S3 bucket on AWS and have a highly reliable site. Amazon claims 99.999999999% durability and 99.99% availability. Content distribution can be enhanced with Amazon CloudFront. Other cloud service products can be used instead of Amazon.

3-Usability Requirements: The interface will be understandable by anyone with a beginner level of understanding computer user interfaces. The language used will be English

4-Performance Requirements: This page should be operable on any device made in the last 10 years that can run one of the internet browsers mentioned in the functional requirements. Rendering should occur in less than 3 seconds, but the performance of searches will be dependent on the API’s used.

5-Development Requirements: This product is dependent on The Atlantic’s COVID tracking site and other API’s so updates to those API’s will need to be implemented as they occur. Any increased functionality after development will also require additional development of the site or a content management system to add updated information to the site.

6-Operational requirements: The website will be static webpages and will be hostable on AWS or similar cloud services with minimal manpower needed for upkeep. Without the need for a EC2 like service, actual resources needed should be minimal.

7-Regulatory requirements: The API’s used all have their own terms and uses. The COVID tracker can be used for commercial purposes so ad’s can be introduced but usage of other API’s may incur restrictions or fees.

8-Space requirements: The static resources should be measured in no more than 2 MB.

7: High-Level System Architecture

8: Team

9: Checklist

1. DONE
2. ON TRACK
3. ON TRACK
4. DONE
5. ON TRACK
6. ON TRACK
7. ON TRACK