

Project Title

1. Introduction

- A brief introduction to your website idea. State the goals of the project.
- The values / benefits (tangible and intangible) this application can bring to a company/organization/end-user.

2. Expected List of Features

- A brief list of features that you expect your website to support.
- Brief justifications for including these features.

3. Market Survey

- Do a survey of the Web to find about five web sites that might have similar ideas as yours.
- Briefly compare the features of these applications with your application idea.

4. References

- Give references to any material / websites / books etc. relevant to your application idea
- Give the links to the websites relevant to your idea, that you listed in the section above.

Covid-19 Statistics

1. Introduction:

- a. Website will visualize statistics of covid-19 case counts at a worldwide scale
 - i. Cases
 - ii. Change in cases
 - iii. Deaths
 - iv. Recoveries
 - v. Cases per age group
 - vi. Deaths per age group
- b. Website will visualize testing efforts based on data that exists
- c. Website will visualize the vaccination efforts at a worldwide scale (as data permits)
 - i. Vaccination by age group
- d. This will help end users determine their risk level and when they will get an opportunity to get vaccinated.

2. Features:

- a. Line graphs showing trends in cases and deaths for each country and by timeframe will be displayed.
- b. Heat map will show local case trends
- c. Cases and deaths by age will be showed as stacked horizontal bar graphs with the option to switch to pie charts
- d. Website will shift to tables on mobile website (react based app to be made in the future for visualizations)
- e. Website sources which update in real time will be listed with a timestamp along with a link to the data source

3. Market Survey:

Websites with features that I'd like to gather, and combine are listed below:

- a. <https://www.worldometers.info/coronavirus/>
- b. <https://covid-19.ontario.ca/data>
- c. <https://coronavirus.jhu.edu/map.html>

4. References:

- a. <https://github.com/owid/covid-19-data/tree/master/public/data>
- b. https://en.wikipedia.org/wiki/COVID-19_pandemic#Data_and_graphs
- c. <https://github.com/CSSEGISandData/COVID-19>