

## CS-375 Project Proposal

5/7/21

Group Name: Team A - VARS

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**Project Description:** We will develop a web application that will display a dashboard of latest coronavirus case statistics and news based on the region the user selects. The user will be able to select a region from a map which will display the information based on their selection. The application will also include a feature to allow users to enter their name, vaccination date, and type of vaccine. The application will then alert by email the day before their next vaccination date is approaching.

**Tech Stack:**

1. Front-end technologies: HTML, CSS, JS
2. Back-end technologies: Express,
3. Libraries: Axios,
4. Database: MongoDB
5. New technology we will use: React, Web Sockets (for keeping a constant connection between the client and server).
6. API: Coronavirus Smartable (<https://rapidapi.com/SmartableAI/api/coronavirus-smartable>), COVID-19 Statistics (<https://rapidapi.com/axisbits-axisbits-default/api/covid-19-statistics>)

**How We Plan to Share Code:** GitHub

**Project Goals:**

- Week 7:
  - o Begin working on the front-end/UI of the web page.
  - o Develop all the web pages we will need and add any buttons/forms/charts to all the pages.
  - o Adding styling to pages.
- Week 8:
  - o Begin to work on the back end of the web page.
  - o Set-up the API requests that we will be making and figure out what data we will need from the API.
  - o Connecting the front and back end to display coronavirus statistics and news based on user input.
- Week 9:
  - o Set up the MongoDB database and integrate it with our app to save user data like (Name, email address, date of first/second vaccination, vaccine type).
- Week 10:
  - o Add feature which allows user to be alerted by email of their upcoming vaccination date.
  - o Clean up any styling and layouts issues to make the application presentable.

## 7) Plans for Coordinating Work:

1. *What will each member of your group focus on? Will everyone have a specialty or will you all share in the responsibilities?*

All team members will share the responsibilities as we will make use of mob programming during in-class time to work on the project together so that one person does not have to take lift of most of the work. We can make use of Visual Studio Live Share which is a real-time collaboration development environment during in-class time to work on the project together.

2. *How will you split up work between members?*

We will try to split up the work between team members based on their experience with front and backend technologies. We will try not to make one person in charge of a feature but will try to make two team members responsible of a feature or part of the project so that if one person is not as experienced in one aspect the other team member can assist them and give their insight.

3. *How will you use class time?*

We will use the class time to hold a quick scrum meeting and go over the progress. Generally, the first-class session of the week, this will entail going over what was accomplished the previous week and going over what is to be accomplished in the current week. The second-class session of the week would entail progress of the work done in the week. We will also use class time to decide and inform each other any updates, plans, or bugs. We can use the rest of the in-class times to mob/pair program difficult tasks so that we can reach our deadlines and meet our project goals every week.

4. *When will you meet? How often? For how long? Using what video chat platform?*

We will meet outside of class when needed throughout the week. The length would depend on the number of bugs/issues there are on a particular aspect of the application. We plan to use Google Meet when having a team video call outside of class.

8)

1. *How much time per week do you anticipate it will take to make the project successful?*

We anticipate about 2-3 hours/person for every week to make this successful.

2. *Is it acceptable for one or two team members to do more work than the others in order to get the team an A?*

No. It's not a team effort if each member doesn't contribute the same amount of work as the other teammates. We will ensure that we divide the work evenly and ensure that this is a shared effort.

3. *What will you do if one member doesn't contribute equally to the project?*

We will tell the team member who doesn't contribute equally to participate more in the group project. If their participation still does not improve, then this would have to be communicated with the professor.

4. *What will happen if someone doesn't follow through on a commitment (e.g. missing a deadline, not showing up to meetings, etc.)?*

If someone does not follow through a commitment, they would be reminded again by the rest of the team and ensure that the entire team knows what needs to be accomplished that week. If someone is not showing up to meetings, then the team needs to discuss why this has been happening and if necessary, choose a different time that works for everyone.