

# **California State University Monterey Bay**

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**CST 205: Multimedia Design and Programming**

**Project Design Document**

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## Planning tools

- GitHub issues for tasks <https://github.com/mike-menendez/205-group-project/projects/2>
- Google Drive, docs for documentation and planning

## Github project repo

- <https://github.com/mike-menendez/205-group-project>

## Github accounts

- Edgaras - <https://github.com/edythecow>
- Mike - <https://github.com/mike-menendez>
- Felix - <https://github.com/FelixRomero1125>
- Frank - <https://github.com/frankpiva>

## What are we going to build?

What is the mission of your product?  What is the purpose of your product? What is the need? What is your solution?	The purpose of our project is to educate people on COVID-19. By educating people we hope that it will help people stay safe during these dire times. We will accomplish this by having information on symptoms of COVID-19, the location of victims, preventive measures.
Who is your target audience?  Who will your users be? How will your product serve these people?	Our target audience will be everyone. The product will serve the people by having the information they need to stay safe from COVID-19.
What are the design features?  What kind of features will this product have to meet needs of the audience?	The API will be a very important function because it will allow for up to date information. It will also have a search function that will allow you to find what you are looking for.
What is the user onboarding flow?  What will the users see when they open your application? What are the steps that users will go through to use your product?	We could make it so that the first thing the user will do is to make an account. Then the user will be taken to the home page.

### Additional questions

1. Which Python libraries do you plan to use?  
BeautifulSoup, Bootstrap, Flask, glob, json, Matplotlib, NumPy, Pickle, Pillow, PyQt5, Requests.
2. APIs and How You'll Use Them: If you plan to use any APIs (like Twitter, etc.), list them here and describe how you'll use them.  
The API would be <https://covid19api.herokuapp.com/> . The API will give information on the date when the person got affected with COVID-19, and a location like the country. It will also state how many people are affected in the stated location.
3. How will you break down the work? Who will work on what?  
The work will be divided between all team members equally. We will encourage each team member to contribute their strengths while allowing individuals to explore areas where they may not have experience. Mike and Frank plan to support the back-end of the project while Edgaras and Felix will work on the front-end.
4. What are the milestones for the project?  
The first milestone will be the home screen, search bar, PyQt5 items. Then we will work on the HTML to make it appealing. We will try to make the API dynamically populate the HTML. Stretch goals will be creating our own graphs and charts from the data.
5. What will the most challenging part be? What do you expect to be the hardest part, and how will you approach it?  
The hardest thing would be to make the API work along with the HTML to make it look good. Coordinating efforts across team members and synchronizing our work with GitHub may be challenging. We will explore pair programming alternatives such as a Zoom session or Atom Teletype.