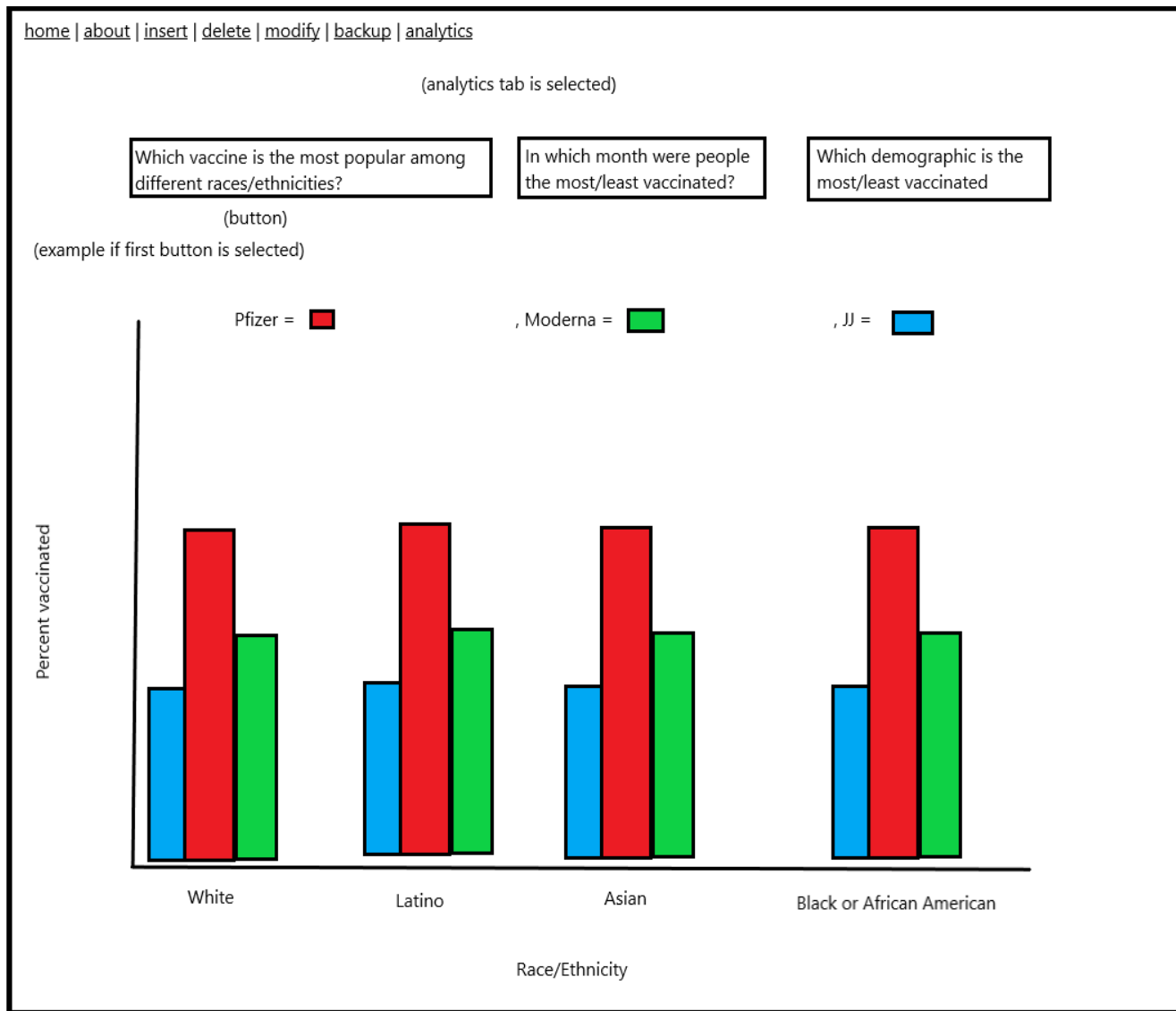


Sprint-4 Artifact

Features (user stories) to Implement:

- Data Analysis (involving the Questions of Interest)
 - Which vaccine (Moderna, Pfizer, J&J) is the most popular among different races/ethnicities? (Implement a triple-bar graph)
 - Which month were the most/least people vaccinated? (Timeframe based graph)
 - Rate of change from partially vaccinated to fully vaccinated over a certain period of time

GUI Design:



Test Cases:

- As a user, I want to see which vaccine is most popular with different races/ethnicities
 - Output: A double graph will display the analysis results for the most popular vaccine brand
 - Error Handling: Invalid inputs from insertion, deletion, and updates
- As a user, I want to see which month were the most/least people vaccinated
 - Output: A time-based graph will display the analysis results for the most/least vaccinated
 - Error Handling: Invalid inputs from insertion, deletion, and updates
- As a user, I want to see the rate of change from partially vaccinated to fully vaccinated
 - Output: A graph of rate of change will be displayed as well as some mathematical models
 - Error Handling: Invalid inputs from insertion, deletion, and updates

Taskboard (Done List):

- Results page will be updated according to the following actions/features:
 - **Delete Record** button for deletion (and enable communication to actually delete data)
 - Responsible Person(s): Brayan Montiel, Hongan Zhang
- Make search results into table format
 - Responsible Person(s): Jason Chu, Mahamadsaad Sheikh
- Enable an automated save function and an importing function for the JSON file (Don't parse the JSON file every time, only once at launch, into a data structure.)
 - Responsible Person(s): Hongan Zhang, Brayan Montiel
- Drop-down Category Fields (connect each choice to a specific field)
 - Responsible Person(s): Scott Mesdjian & whoever volunteers

To-Do List (Upcoming):

- ➔ **Modify Value** button for updating (enter the ID of record to modify, then choose from a drop-down menu on which attribute to change, and then input a new value in the text box)
 - Responsible Person(s): Scott Mesdjian, Jason Chu

- ➔ **Create New Record** button for insertion (new page involving a “form”)
 - Responsible Person(s): Mahamadsaad Sheikh, Scott Mesdjian

- ➔ **Analysis for which vaccine** (Moderna, Pfizer, J&J) is the most popular among different races/ethnicities? (Implement a double-bar graph)
 - Responsible Person(s): Mahamadsaad Sheikh, Jason Chu

- ➔ **Analysis for which month** were the most/least people vaccinated? (Timeframe based graph)
 - Responsible Person(s): Hongan Zhang, Scott Mesdjian

- ➔ **Analysis for which demographic** (i.e. ethnicity, age, gender) is the most/least vaccinated?
 - Responsible Person(s): Brayan Montiel & whoever volunteers