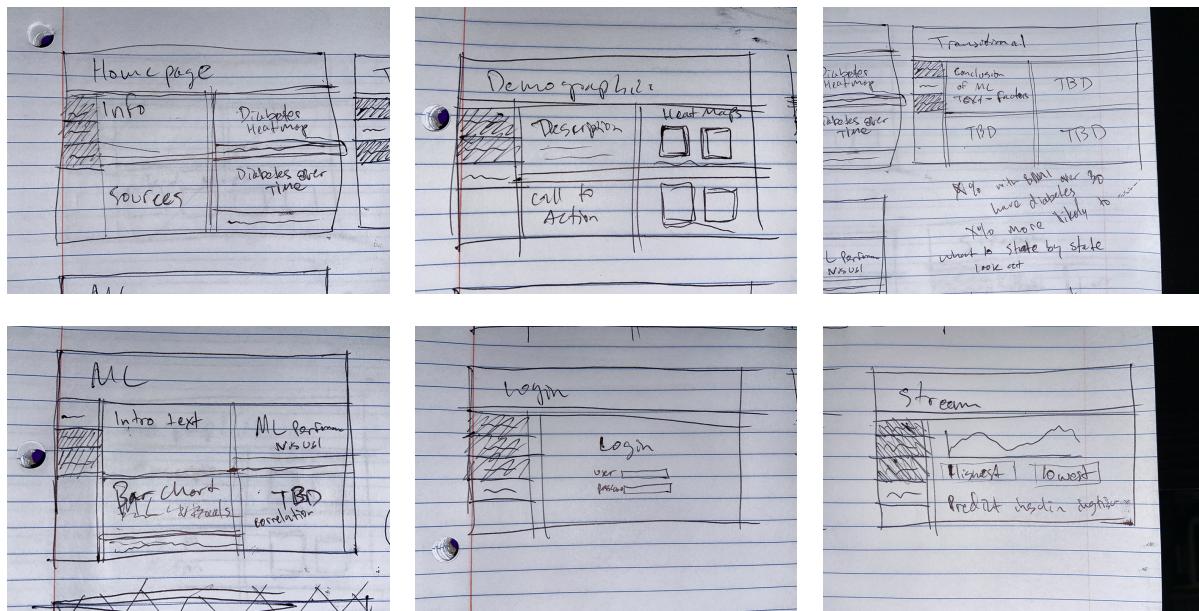


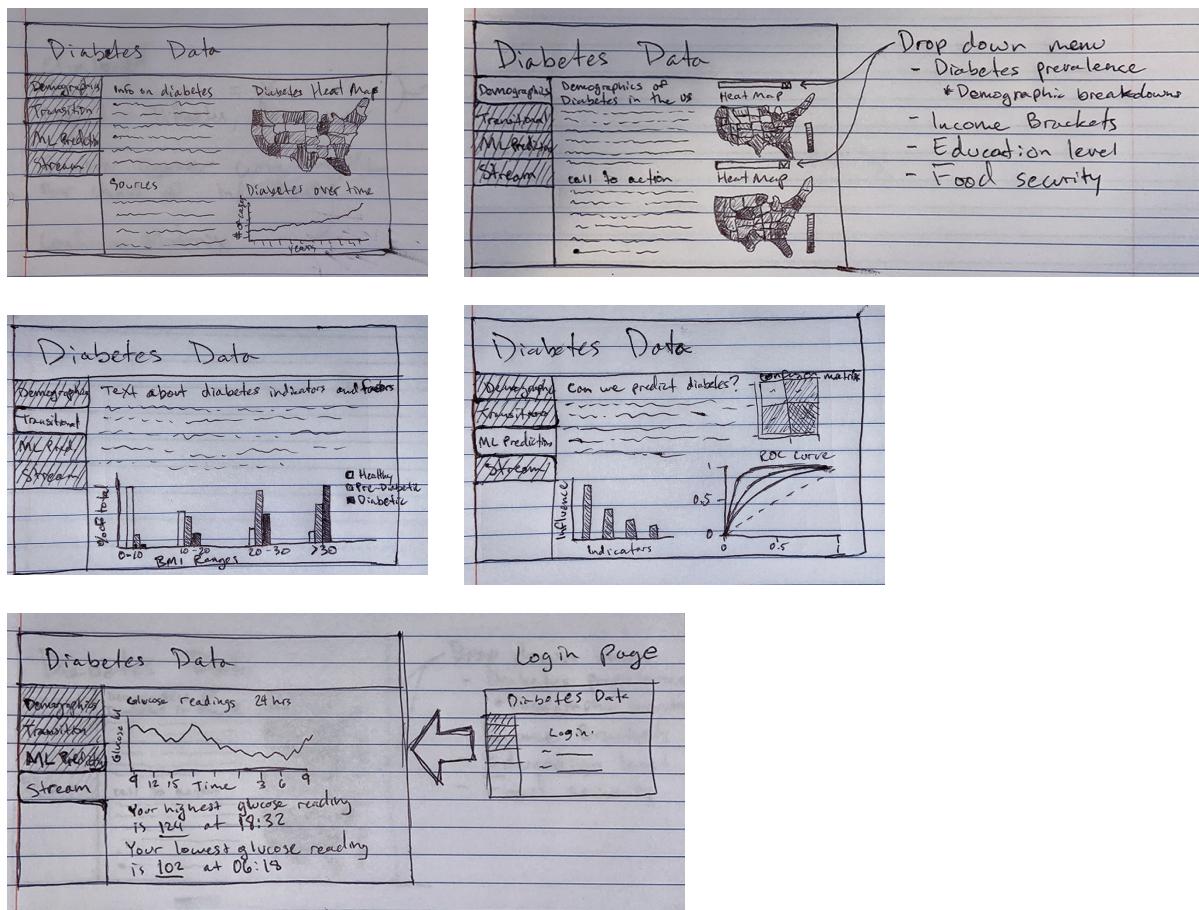
# Visualizations/Dashboard Napkin Drawings and Feedback

Group 5 - Hayden Muscha, Jack Lynn, Samantha Wainright, Temesgen Fekadu

## First Round Rough Drafts



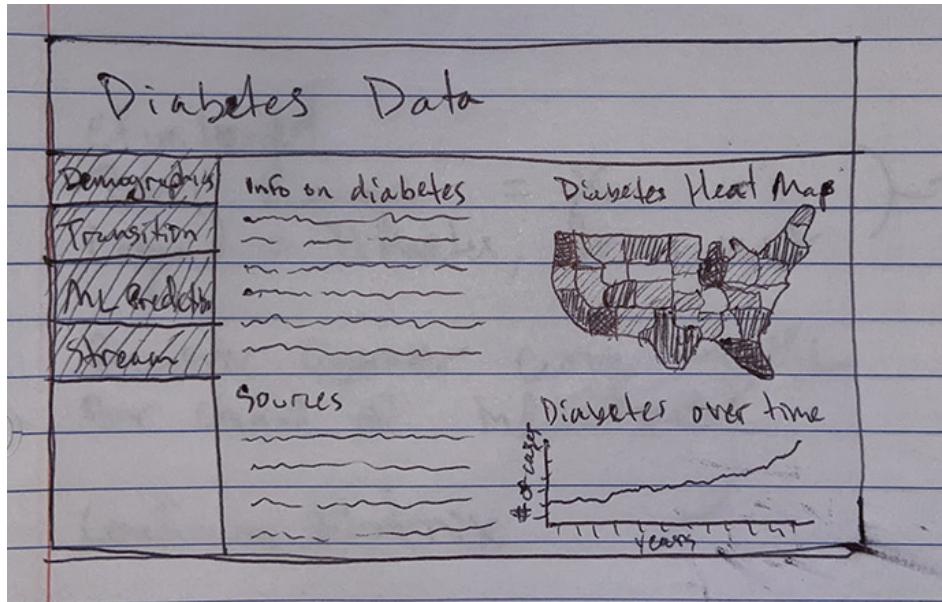
## Second Round Rough Drafts



## Napkin Drawing Feedback

Feedback from Tavianne Kemp:

Wow! This looks really cool. I like that there are different tabs for things. I think this is a really interesting idea, and as someone with several pre diabetics in my family its pretty easy to be interested in the data. I have one clarifying question, is the last tab, the stream tab, that is taking in the simulated stream data and putting it into a graph? What is the log in for, like can someone genuinely log into the dashboard? If so, that is really cool! The only other question I have is to ask what your color scheme is going to be? Also who is your audience? Is it for the general public? Is the purpose just to inform, or is it to convince people to make some sort of change? Is the title going to remain Diabetes Data? If so that is totally fine! It just might change depending on what your purpose is!



Feedback from Nathaniel Van Schyndel:

I like the layout. I would say sources should be like a footer. I assume the blurb is about the causes and primary findings on diabetes. Do these two things have almost a slicer that allows the top heat map visual to be adjusted by year or state? I do not know your data, but this seems like a very good broad look at diabetes trends in the US.

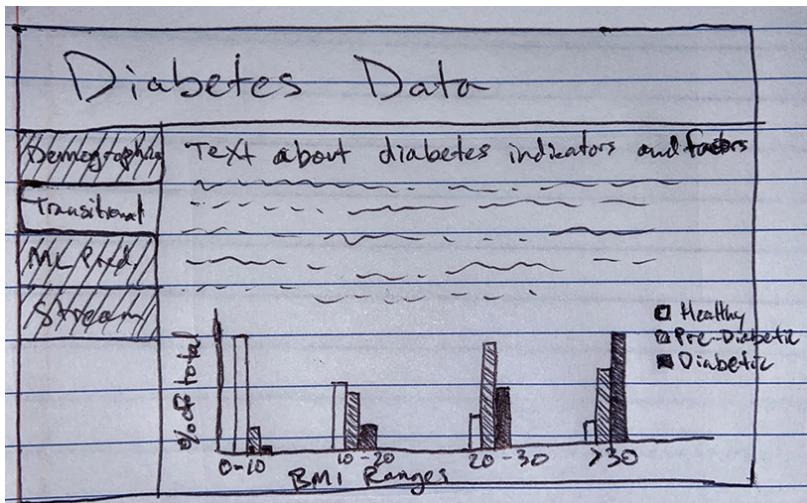
Diabetes Data	
Demographics	Demographics of Diabetes in the US Heat Map
Transitional	
ML Predict	
Stream	call to action Heat Map

Drop down menu

- Diabetes prevalence
- \* Demographic breakdowns
- Income Brackets
- Education level
- Food security

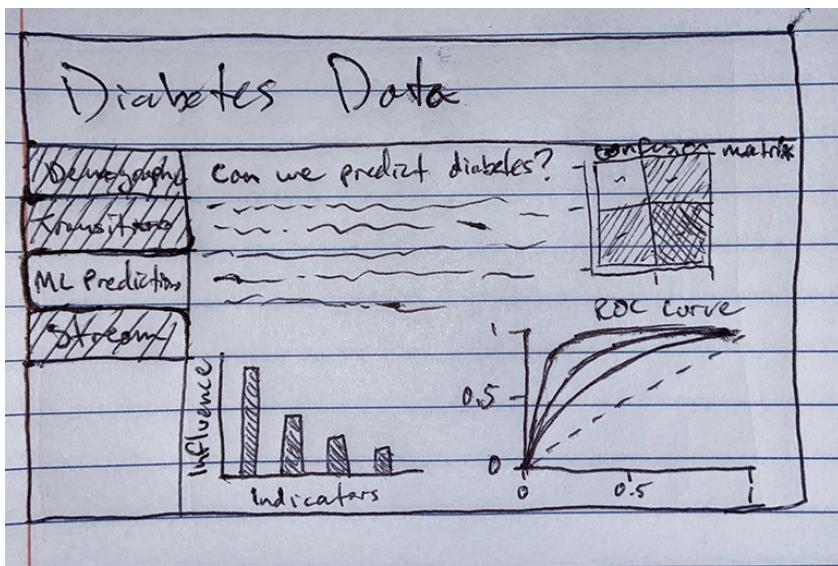
Feedback from Nathaniel Van Schyndel:

I think this will need some sort of color coding, layering, or texturing to show the desired effect. So this is showing the prevalence of diabetes by subcategory based on the indicated. Does income education and food security have subcategories as well? My only concern with this is that this will not demonstrate the relationship between all things that are desired for comparison. I would say potentially do 3 maps, one for each subcategory with options for their own subcategories for direct comparison and migrate the call to action somewhere else. I really like the idea of this page though although it does seem like it could be a chore.



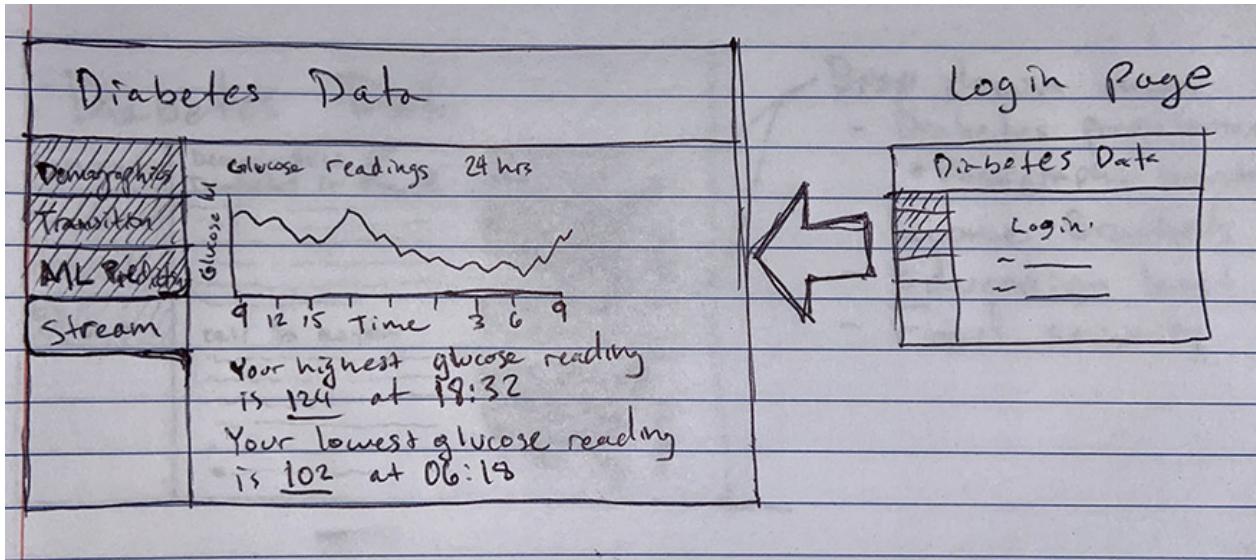
Feedback from Nathaniel Van Schyndel:

This is demonstrating the relationship between the prevalence of diabetes, pre-diabetes, and diabetics in association with BMI? Does this show the total population and each range is a breakdown of that total population by % and demonstrating prevalence? I assume all of this is in relation to a specific type of diabetes or is it all types? I am sure someone would find "healthy" offensive. Think about potentially non-diabetic.



Feedback from Nathaniel Van Schyndel:

This almost seems like a primary page with a subtab of the BMI page. Is BMI a primary indicator for diabetes? Is it the largest bar on your indicators bar graph? Overall, I think this dashboard paints a good picture. I would suggest maybe taking a small amount of time to think about what/who, how many, where, when, how, why and respective qualitative, quantitative, position in space, position in time, cause/effect, and deduction prediction flows.

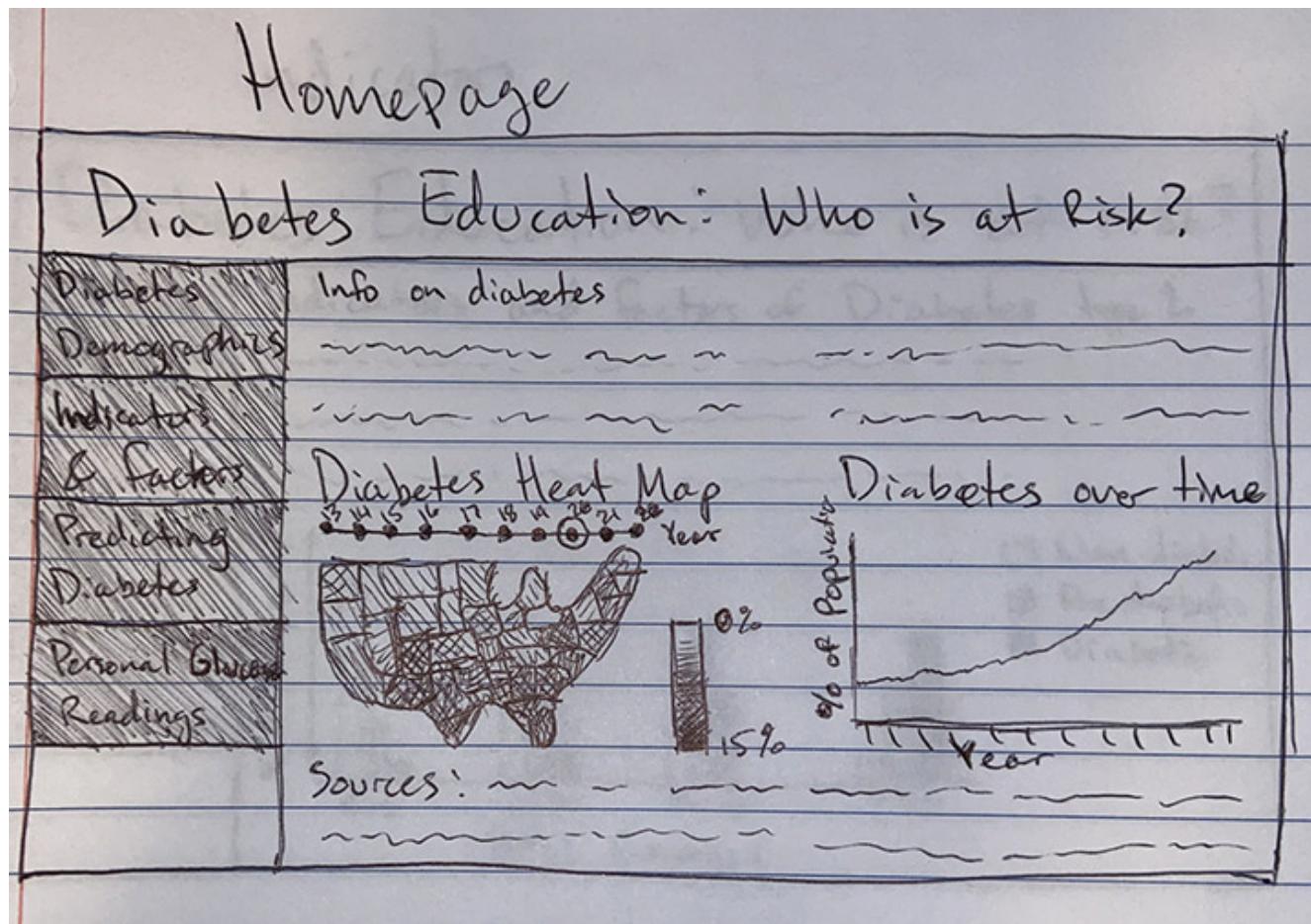


Feedback from Nathaniel Van Schyndel:

This shows a time trend of diabetes for personal use or an in general about what glucose levels for the average person in the US looks like/day? Is this personalized info? A description of a healthy or diabetic person? Some more information or a description may be necessary and an explanation. Only issue is what is being proclaimed or demonstrated and to who.

## Final Napkin Drawings

### Homepage and Visualizations



For the homepage, we moved the sources to the bottom of the page as per the feedback we received. We also added a slider on the heat map for the different years. The title of the website changed to "Diabetes Education: Who is at risk?" in order to give a better idea of what this website is about. Also the page names were changed to better reflect what each individual page is about.

## Demographics Page and Visualizations

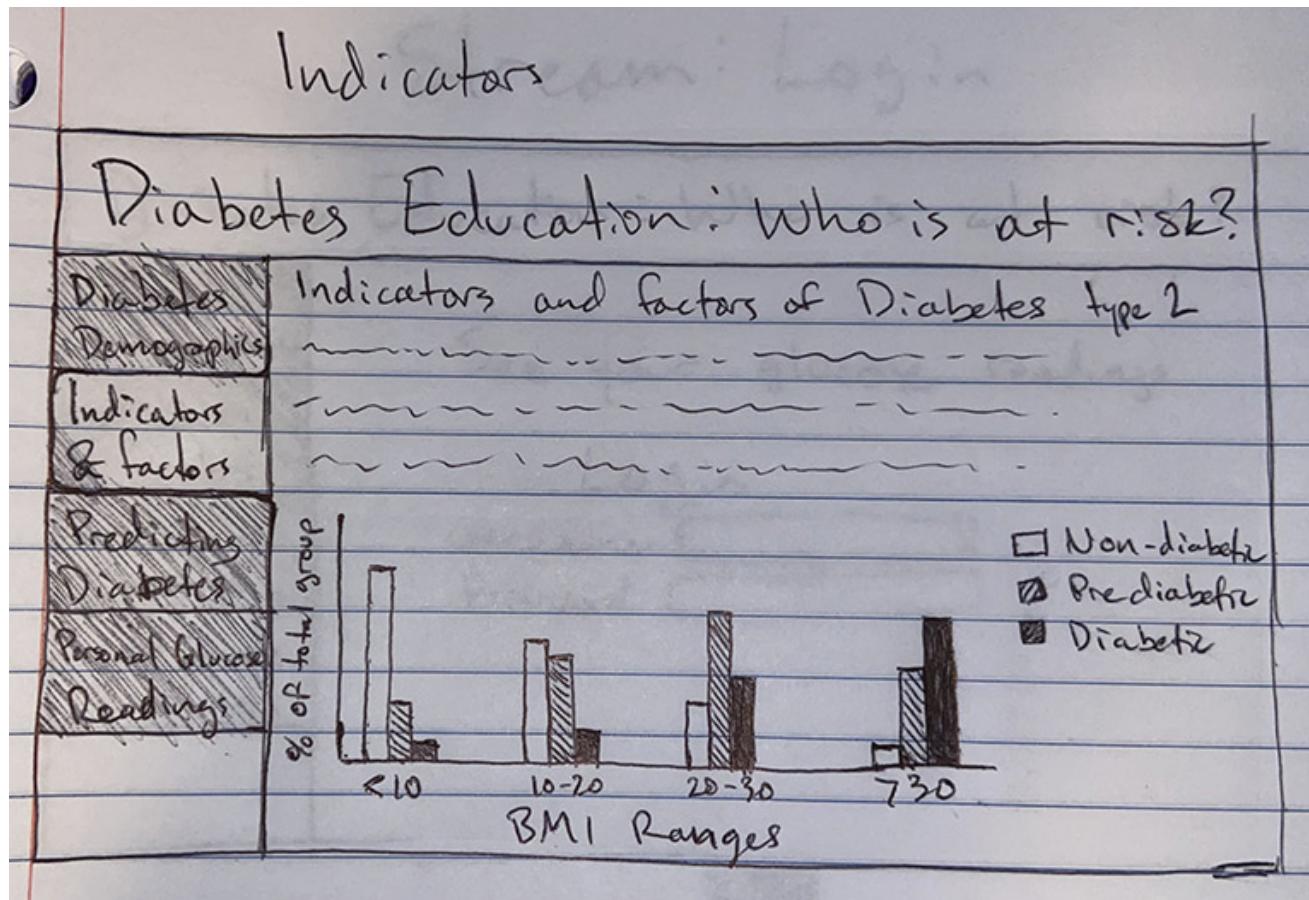
Demographics

### Diabetes Education: Who is at risk?

Diabetes Demographics	Demographics of Diabetes Type 2
Indicators & Factors	Heat Maps
Predicting Diabetes	category
Personal Glucose Readings	Income   Education   Food security
	Call to action

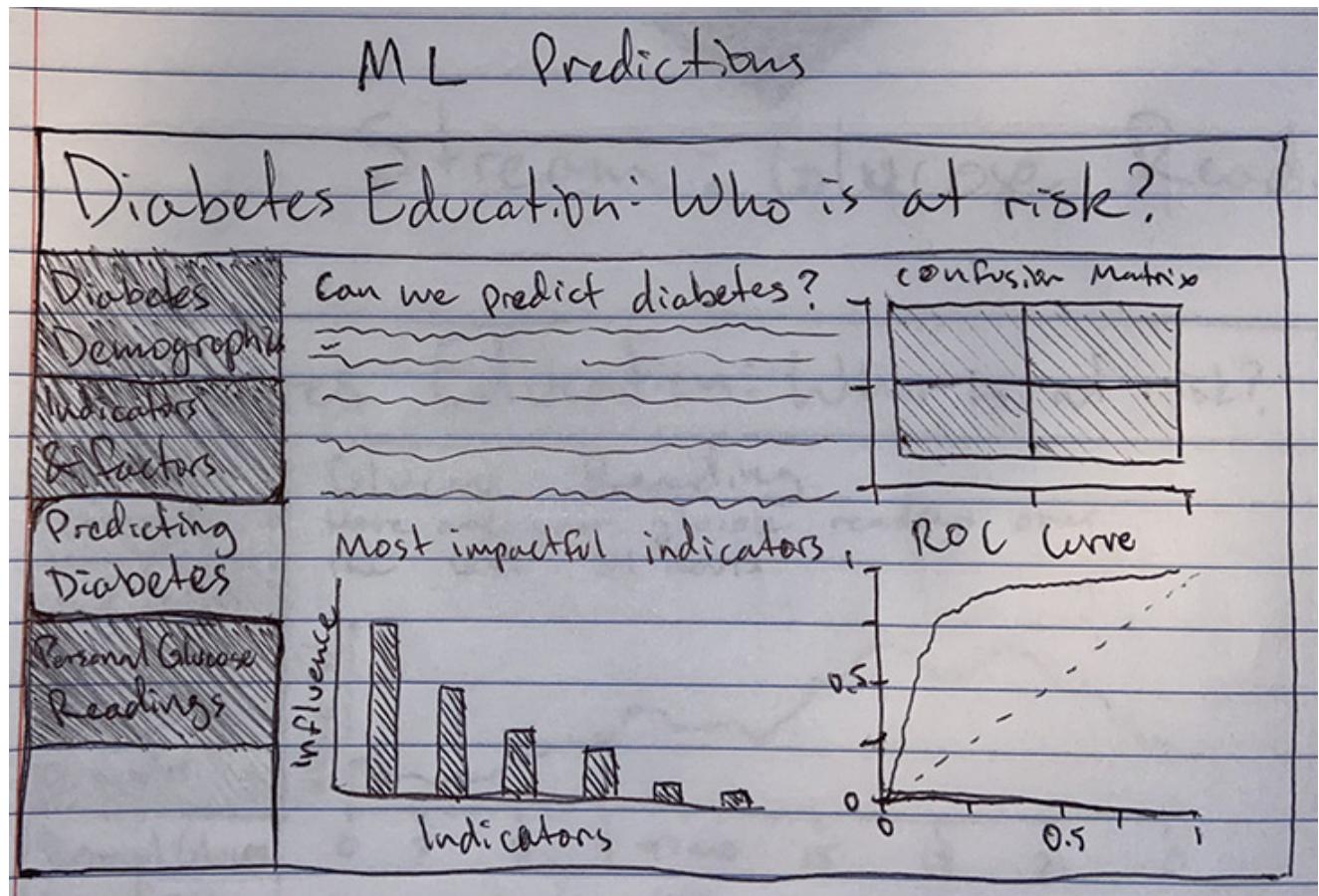
On the demographics page, we changed the heat maps to show one heat map for each category, income, education, and food security. There is a drop down menu for the different subcategories for each heat map, allowing the user to compare each map based on the same subcategory.

## Indicators Page and Visualizations



We made minor changes to the indicators page, such as changing the name of the "healthy" category to "non-diabetic", and the title of the y axis was changed to make it more explicit.

## ML Predictions Page and Visualizations



Not much was changed on this page, we believe the rough napkin drawing reflected our idea for this page well. Some of the questions asked in the feedback for this page are addressed at the end of this pdf.

## Indicators Page and Visualizations

Stream: Login

Diabetes Education: Who is at risk?

Diabetes Demographics Indicators & Factors Predicting Diabetes Personal Glucose Readings

See your glucose readings

Login

Username  Password

Stream: Glucose Readings

Diabetes Education: Who is at risk?

Diabetes Demographics Indicators & Factors Predicting Diabetes Personal Glucose Readings

Glucose Reading  
Here are your glucose readings over the last 24 hours

Glucose

Time 0 3 6 9 12 15 18 21 0

Highest Reading: 137 at 21:32  
Lowest Reading: 113 at 03:21

On the streaming page, we expanded on the login page to make it more clear that an individual would be able to login to view their glucose readings. On the readings page, we added a block of text explaining to the user that you are viewing your glucose readings over the last 24 hours.

## Audience, Purpose, and Style

To address some of feedback we received on our rough napkin drawings, we wrote out our audience, purpose and color palette that will be used in our final visualizations and dashboard.

### Audience

General public, specifically those who are most at risk of developing diabetes or are currently living with diabetes.

### Purpose

Educate the audience on which areas of the US are most at risk for developing diabetes, as well as what factors and indicators contribute the most to the development of diabetes. Provide tools for the audience to track glucose levels and predict when there might be a spike coming up.

### Color Pallete

For text:

- Black - #000000
- Blue - #0B1EE3

For graphical elements:

- Purple - #7A00A6
- Blue - #0B1EE3
- Green - #127139

For highlights and accents:

- Cyan - #00C6E0
- Light Green - #00E05D



#7A00A6

#0B1EE3

#00C6E0

#127139

#00E05D