**BELLY BUTTON BIODIVERSITY BOARD**

**Introduction:**

We need to complete designing the dashboard. It already contains an extensive panel for demographic data, but now each volunteer's bacterial data needs to be visualized. The participants should specifically be able to name the top 10 bacterial species found in their belly buttons. In this manner, if Improbable Beef recognizes a species as a potential option for synthetic beef production. The ability to recognize whether that species is present in a volunteer's navel.

**Objectives:**

We have following objectives to cover as some of them are as follow.

* Create a Horizontal Bar Chart
* Create a Bubble Chart
* Create a Gauge Chart
* Customize the Dashboard

**Code and Results:**

Create a level bar outline to display the top 10 bacterial species (OTUs) when a single's ID is selected from the dropdown menu on the website page using OUR knowledge of JavaScript, Plotly, and D3.js. The sample values, out\_ids, and out\_labels will be displayed as the quality, names, and drift text, respectively, for the bars in the even bar graph.

// DELIVERABLE 1: Create a Horizontal Bar Chart

function init() {

// Grab a reference to the dropdown select element

var selector = d3.select("#selDataset");

// Use the list of sample names to populate the select options

d3.json("JS/data/samples.json").then((data) => {

var sampleNames = data.names;

sampleNames.forEach((sample) => {

selector

.append("option")

.text(sample)

.property("value", sample);

});

// Use the first sample from the list to build the initial plots

var firstSample = sampleNames[0];

buildCharts(firstSample);

buildMetadata(firstSample);

});

}

// Initialize the dashboard

init();

function optionChanged(newSample) {

// Fetch new data each time a new sample is selected

buildMetadata(newSample);

buildCharts(newSample);

}

// Demographics Panel

function buildMetadata(sample) {

d3.json("JS/data/samples.json").then((data) => {

var metadata = data.metadata;

// Filter the data for the object with the desired sample number

var resultArray = metadata.filter(sampleObj => sampleObj.id == sample);

var result = resultArray[0];

// Use d3 to select the panel with id of `#sample-metadata`

var PANEL = d3.select("#sample-metadata");

// Use `.html("") to clear any existing metadata

PANEL.html("");

// Use `Object.entries` to add each key and value pair to the panel

// Hint: Inside the loop, you will need to use d3 to append new

// tags for each key-value in the metadata.

Object.entries(result).forEach(([key, value]) => {

PANEL.append("h6").text(`${key.toUpperCase()}: ${value}`);

});

});

}

// 1. Create the buildCharts function.

function buildCharts(sample) {

// 2. Use d3.json to load and retrieve the samples.json file

d3.json("JS/data/samples.json").then((data) => {

// 3. Create a variable that holds the samples array.

var samples = data.samples;

// 4. Create a variable that filters the samples for the object with the desired sample number.

var resultArray = samples.filter(sampleObj => sampleObj.id == sample);

// 5. Create a variable that holds the first sample in the array.

var result = resultArray[0];

// 6. Create variables that hold the otu\_ids, otu\_labels, and sample\_values.

var ids = result.otu\_ids;

var labels = result.otu\_labels.slice(0, 10).reverse();

var values = result.sample\_values.slice(0,10).reverse();

var bubbleLabels = result.otu\_labels;

var bubbleValues = result.sample\_values;

// 7. Create the yticks for the bar chart.

// Hint: Get the the top 10 otu\_ids and map them in descending order

// so the otu\_ids with the most bacteria are last.

var yticks = ids.map(sampleObj => "OTU " + sampleObj).slice(0,10).reverse();

console.log(yticks)

// 8. Create the trace for the bar chart.

var barData = [{

x: values,

y: yticks,

type: "bar",

orientation: "h",

text: labels

}];

// 9. Create the layout for the bar chart.

var barLayout = {

title: "Top 10 Bacteria Cultures Found"

};

// 10. Use Plotly to plot the data with the layout.

Plotly.newPlot("bar", barData, barLayout);

Chart, bar chart, funnel chart

Description automatically generated

Chart

Description automatically generated

// 1. Create the trace for the bubble chart.

var bubbleData = [{

x: ids,

y: bubbleValues,

text: bubbleLabels,

mode: "markers",

marker: {

size: bubbleValues,

color: bubbleValues,

colorscale: "Portland"

}

}];

// 2. Create the layout for the bubble chart.

var bubbleLayout = {

title: "Bacteria Cultures Per Sample",

xaxis: {title: "OTU ID"},

automargin: true,

hovermode: "closest"

};

// 3. Use Plotly to plot the data with the layout.

Plotly.newPlot("bubble", bubbleData, bubbleLayout)

Chart

Description automatically generated

// 1. Create a variable that filters the metadata array for the object with the desired sample number.

var metadata = data.metadata;

var gaugeArray = metadata.filter(metaObj => metaObj.id == sample);

// 2. Create a variable that holds the first sample in the metadata array.

var gaugeResult = gaugeArray[0];

// 3. Create a variable that holds the washing frequency.

var wfreqs = gaugeResult.wfreq;

console.log(wfreqs)

// 4. Create the trace for the gauge chart.

var gaugeData = [{

value: wfreqs,

type: "indicator",

mode: "gauge+number",

title: {text: "<b> Belly Button Washing Frequency </b> <br></br> Scrubs Per Week"},

gauge: {

axis: {range: [null,10], dtick: "2"},

bar: {color: "black"},

steps:[

{range: [0, 2], color: "red"},

{range: [2, 4], color: "orange"},

{range: [4, 6], color: "yellow"},

{range: [6, 8], color: "lightgreen"},

{range: [8, 10], color: "green"}

],

dtick: 2

}

}];

// 5. Create the layout for the gauge chart.

var gaugeLayout = {

automargin: true

};

// 6. Use Plotly to plot the gauge data and layout.

Plotly.newPlot("gauge", gaugeData, gaugeLayout)

});

}

<div class="col-md-5">

<div id="gauge"></div>

</div>

![Chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVtaWxpbyBNYXJ0aW5legAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNjkAAJKSAAIAAAADNjkAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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olJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6K+xQ/wDTX/v8/wDjVa4ijRtqeZnufNf/ABrQqjc/8fDfh/KgCv5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5f+3L/AN/W/wAaPL/25f8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/J/wB/W/xo8sf35P8Av63+NPooAZ5Y/vyf9/W/xo8sf35P+/rf40+igBnlj+/L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPL/ANuX/v63+NPooAZ5f+3L/wB/W/xo8v8A25f+/rf40+igBnl/7cv/AH9b/Gjy/wDbl/7+t/jT6KAGeX/ty/8Af1v8aPLH9+T/AL+t/jT6KAJ4IIpVOfMyOv75/wDGpfsUP/TX/v8AP/jTLP8Aj/CrVAEH2KH/AKa/9/n/AMaKnooAKo3P/Hw34fyq9VG5/wCPhvw/lQBFRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFmz/j/CrVVbP+P8KtUAFFFFABVG5/4+G/D+VXqo3P/Hw34fyoAiooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCzZ/wAf4VaqrZ/x/hVqgAooooAKo3P/AB8N+H8qvVRuf+Phvw/lQBFRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFmz/j/AAq1VWz/AI/wq1QAUUUUAFUbn/j4b8P5Veqjc/8AHw34fyoAiooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCzZ/x/hVqqtn/H+FWqACiiigAqjc/wDHw34fyq9VG5/4+G/D+VAEVFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfOPxD8Q+JIvifqWnaVrWpQoZ444YIbx0UEouAAGAHJqb/hF/jD/z8az/AODgf/HKoeNf+S6z/wDYQt/5JX0vQB86vovxf08ee0utvt5wuoed/wCOhzn8q1fB3xk1ey1hNL8ajzYmk8trh4hHLA3T5gAAR68ZHvXuteA/H2xtbfxNp13CqrPc27edj+LacKT+ZH4UAe+ghlBU5BGQR3pawfA8s83gPRZLvPnNZx7t3U/L/hW6SFUliAAMkntQAtFcLrXxg8I6NO0H2yW/lQ4ZbKPeAf8AeJCn8DUGl/GvwhqU4ilmutPLHAN3DhfzUsB+OKAPQa5v4hXVxZfD7WLmznkt547fKSxOVZTkcgjkV0EM0VxCk1vIksUihkdGBVh6gjrXNfEv/kmut/8AXt/UUAcj8DNY1PV9P1ZtV1G7vmjljCG5naQqMHpuJxUnxy1fUtI0bSn0rULqxeS4cO1tO0ZYbeh2kZrP/Z8/5Bmtf9do/wCRqT9oP/kB6P8A9fL/APoIoA7f4cXdzffDzSbm9uJbmeSIl5ZnLsx3HqTya6iuQ+GLbPhfpDBS22BjtXqfmPAqt4c+K+heJfEK6Na22oW1227H2qNFXK9V4cnPB7dqAO4ooqC9vIdPsJ7y6bZDBG0jt6ADJoAnorkfB/xH0rxte3FtpNnqEZt4w8klxGiqMnAHDk5/DtXXUAFeSfHTWdU0i30c6TqV3YmRpd5tp2j3YC4ztIzXrdeMftCf8e+h/wC/L/JaAOT0vSvirrOmw6hpt9rM9rON0cn9rbdwzjoZAatHwz8YEG4z60cc8asD+nmV658Lf+SZ6N/1xP8A6Ea62gD5ztfiP498FanHb+I1uJ4+pt7+PBdfVZMZP1yRXvHh3X7PxNoNvqunMTDOvKt95GHVT7g1yfxpsbW6+HNzcXAUS2siPC5HIYsFIH1BrD/Z+knbw7qsb5MC3SlM9AxXn+QoA9corF8VeKLLwhojapqUU8sCyLGVt1VmyenBIH60nhTxVY+MNG/tPT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}

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font-size: 1rem;

}

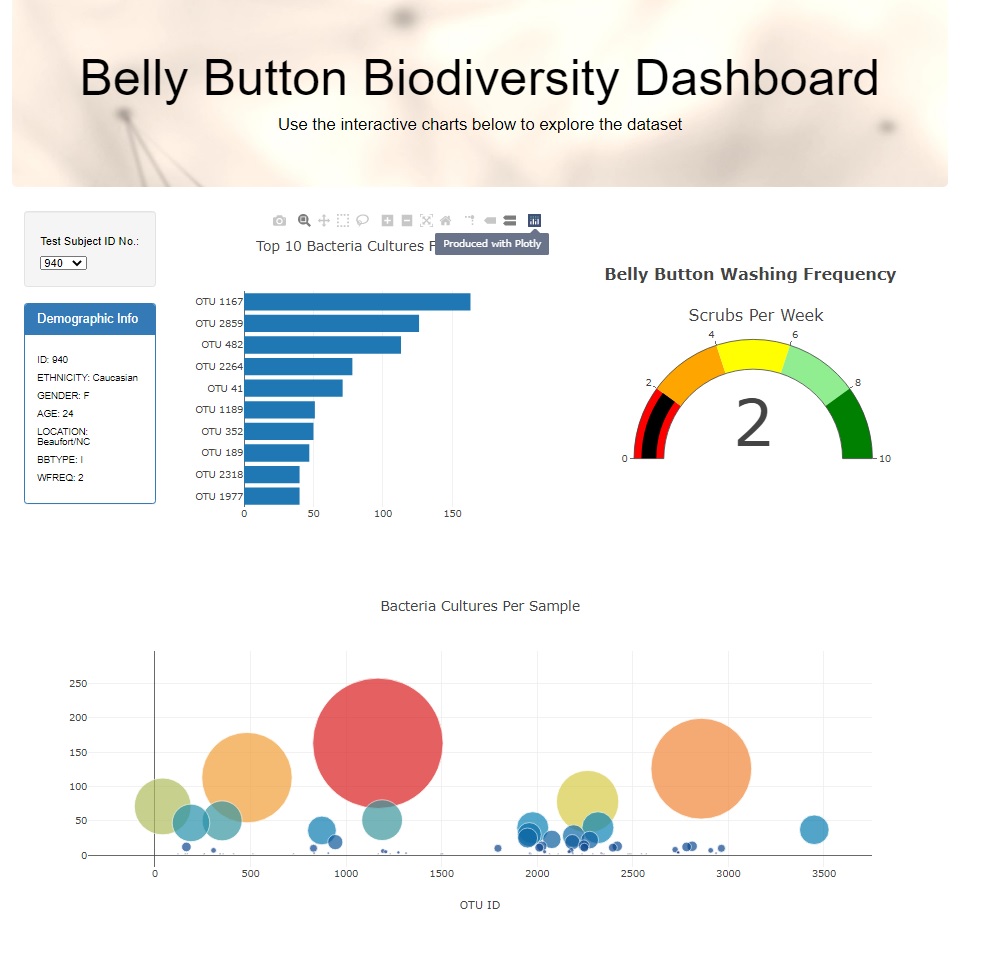
.jumbotron {

background-image: url("../images/bacteria.jpg");

background-size: 100% 100%;

text-align: center;

}



**CUSTOMIZED DASHBOARD**

**Final Output With Testing Results:**

**Graphical user interface

Description automatically generated**

**Conclusions:**

As we have to create a dashboard which needs to be representations of belly button based on number of bacteria and the number of scrubs which is to be shown in gauge and also the bubble chart as well. We have completed all the four deliverables as shown above and we have successfully aware of these assignments and their results as well.