User Stories and Tasks :-

1) Screen 1a -

**New User enters the webpage, a welcome message pops up with what this website is about?**

2) Screen 1 -

Default entered screen : DFT calculation webpage



Contains :-

1. Nav Bar with WebsiteName and/or Logo, DFT page link, About us page **and theme switch. The routing and CSS for the same is implemented.**

2. First container having what the user intends to calculate, i.e DFT or FFT and how many point DFT, and in what method.

3. Second container having Input fields for numbers along with option to give imaginary input as buttons.

4. Third container displays the Butterfly structure.

5. *Fourth Container displays a general explaination.*

6. **iFrames on sides and below are present for displaying of Ads.**

7. **Webpage is responsive.**

3) Screen 1b - **If the user gives imaginary input to calculate DFT, it should throw an error reflected as a popup.**

4) Screen 2 - About us page

**1. Contains, Cards with Pic and details to contact developer.**

**2. Unique visitors counter is present this is updated based on users visiting the default screen.**

**3. UI is appealing.**

**4. Webpage is responsive.**

*5) Testing*

6) Hosting

7) SEO

8) Advertisment

9) Security

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Issues and Setback :-

1) Error in last few output values

2) Butterfly made only for 4 and 8 points

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Progress :-

Day 1

1) Translated code from Python to JS

2) Renderd a Nav Menu

3) Tested IDFT using DIT method. Got results similar to Python script, except two values were interchanged.

The last few values had a significant deviation from actual answer back in the python script. I think similar error is there in JS output too. (Need to figure out how to solve this, Why such an error is occuring !!?)

4) Created a Form for user Input -- Needs Improv

5) Installed react-d3-graph library using which we can render the butterfly structures

Day 2

1) Code rewriting and fixed bugs

2) Made base code scalable and used it to render Buttefly structure

Day 3

1) Improvised code and made it more readable

2) Also added input and output nodes

3) Wrote code for 4 point butterflies

Day 4