WEEK 1 - HTML:

Exercise 1.1:

- 1. When a user enters an URL in the browser, how does the browser fetch the desired result? Explain this with the below in mind and Demonstrate this by drawing a diagram for the same. (2-3 hours)
 - a. What is the main functionality of the browser?
 - b. High Level Components of a browser.
 - c. Rendering engine and its use.
 - d. Parsers (HTML, CSS, etc)
 - e. Script Processors
 - f. Tree construction
 - g. Order of script processing
 - h. Layout and Painting

Guidelines:

- 1. Submit this assignment on GIT Answer should be in readme File (with images) on GIT.
- 2. Candidates should be able to explain how a browser works.
- 3. What are the high level components of a browser?
- 4. How each component works with each other. (For example: Networking component is the one which makes HTTP calls, Data storage component is a browser's persistence layer which saves data locally such as Cookies and Local Storage.
- 5. How Parsing works and its importance.
- 6. The order of execution of scripts.

Outcome:

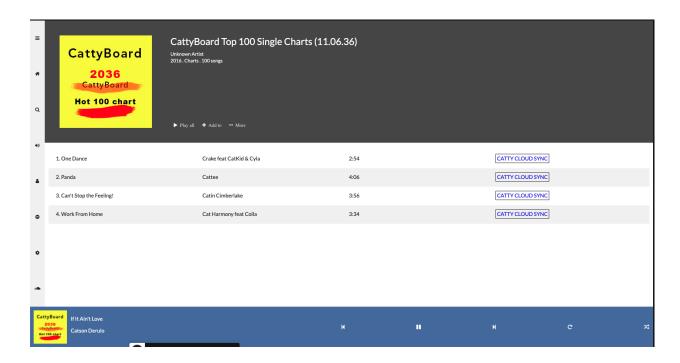
- 1. Under the hood understanding of how a browser works.
- 2. What are the features a browser provides?
- 3. What a browser is capable of doing.
- 4. How a web page is translated from a string in a URL to a webpage.

Exercise 1.2: (2-3 hours)

- Use "Lato" font for entire text in UI
- Use line awesome Icon library for all icons
- Cattyboard album image URL: https://vif1g.csb.app/src/assets/cattyboard.jpg
- Icons used in assignment:
 - la-bars
 - la-home
 - la-search
 - la-volume-up
 - la-user
 - la-cog
 - la-spotify
 - la-soundcloud

la-play la-plus la-ellipsis-h la-step-backward la-step-forward la-undo-alt la-random

- Note: Feel free to use any other font library if you wish



Guidelines:

- 1. There should be a separate branch created in GitHub for this exercise.
- 2. The UI should closely match with the screengrab given as sample. This includes the colors, fonts, icons, text etc.
- 3. Semantic tags should be used for laying out the UI.
- 4. There should be one or more Git commits with meaningful commit messages.