

Logistics

- Meeting Room - BE304A, Vivas (Fridays only)
- Meeting Times
 - Mo - 17:00
 - Tu - 17:20
 - Th - 10:00
 - Fr - 09:00
- Project Repository
 - GitHub - <https://github.com/Zagan202/LoFiAi.git>
 - New branches are to be created per feature and merged when done
- Communication - Slack

Development Environment

- Platform - Web
- Databases
 - Mlab - links
 - AWS - music
- AI
 - Tensorflow Wavenet - AI training/generation script
 - Google Cloud - VM to run training/generation
- Web Development
 - React - Front end development
 - Express - Routing
 - Axios - Front/back end connection
 - Mongodb - Database management
 - Node.js - Misc.

Coding Standards

- Indentation
 - Indent code blocks with 2 spaces.
 - Should a string need to be broken up across lines to due the 100 character limit, the latter portion(s) of the string may be spaced to begin after the original opening “
- Spacing
 - Place one empty line in between functions or separate sections of code.
- Function Naming
 - Accessors - Names of accessor functions should start with “get”.
 - Mutators - Names of mutator functions should start with “update” or “change”.
 - General - Function names should be self-explanatory.
 - Written in lowerCamelCase.
- Imports Formatting
 - Imports should be on separate lines.
 - Single quotes for import file paths

- Imported react components begin with a capital letter
- Other imported assets are named in lowerCamelCase
- Import statement order:
 - React
 - React plugins, alphabetized
 - Style sheet
 - Assets, alphabetized
 - Child components, alphabetized
- Comments
 - Descriptions
 - Make first character capitalized after one space
 - capitalization is unnecessary if the first word is a name used in the code which does not begin with a capital letter
 - One such description per function and per file
 - Built in React Component functions require no comment
 - Do not terminate with a period.
 - Code - No such capitalization nor spacing as description.
- Line Length
 - Maximum line length is 100 characters.
- Parentheses
 - Use parentheses sparingly.
- Quotes
 - Single quotes for import file paths, require statements, and characters
 - Double quotes for strings
- One statement per line.
- HTML
 - One element per line
 - Elements without content should close themselves
 - All elements must contain alt text, or "" for merely decorative images
 - Inline event handlers are allowed for 1 line functions
 - Property assignments should have no spacing surrounding the '='
 - Property order:
 - id
 - src
 - alt
 - href
 - type
 - min
 - max
 - defaultValue
 - name
 - className
 - ref

- target
 - rel
 - align
 - Any react component props
 - Event handlers
 - width
 - height
 - style
- CSS
 - Classes should be listed in alphabetical order
 - Subclasses do not require comments, and should be listed under their parent class
 - Property order:
 - appearance
 - display
 - float
 - border
 - outline
 - width
 - height
 - overflow
 - background
 - alignItems
 - justifyContent
 - transform
 - writing-mode
 - filter
 - margin
 - padding
 - list
 - line
 - font-size
 - font-family
 - color
 - opacity
 - text-align
 - position
 - top
 - right
 - bottom
 - left
 - cursor
 - white-space

- overflow
 - z-index
- React Components
 - Function order:
 - Constructor
 - Helper functions used in built in React functions in the order they appear
 - All built in functions other than render
 - Helper functions in the order they appear in event handlers and render
 - Event handlers in the order they appear in render
 - Render

Process Patterns

- Acceptance Criteria
 - As a user, I want to listen to new instrumental music, so that I don't hear the same song twice.
 - Given I am on the landing page, when I press play, then I should hear randomly queued AI generated music.
 - As a user, I want the website to have a minimalist design so that users can access the features easily.
 - Given I have just entered the website, when I scroll down, then I should see a title/logo, followed by the player, followed by the about section, followed by the Learning with LoFi page each with padding and accompanying art.
 - As a user, I want to save music that I listened to so that I can listen to the music again if I liked it.
 - Given I have been listening for any given amount of time already, when I press a save button, then the song currently playing downloads to my computer as a file I can then play whenever I like.
 - As a user, I want to share a track with someone else so that they may enjoy the music too.
 - Given I have been listening for any given amount of time, when I press a share button, then I should receive a link to the website playing the current track.
 - Given I am on some social media platform, when I click a link generated by the share feature, then I should be taken to the website playing the same song the sharer of the link was listening to at the time.
 - As a user, I want a parallax design, so that I can better immerse myself in the style of the website.

- Given I am at any point on the website, when I scroll up, I should see the features and art assets of our design translate onto the screen as seen in the template.
- As a user, I want seamless audio controls so that the controls do not disrupt my listening immersion.
 - Given the music is not currently playing, when I press the unique play/pause button, the music should begin and continue as before with the generic player.
 - Given the music is currently playing, when I press the unique play/pause button, the music should stop in place.
 - Given the volume is at any level and the music is playing, when I slide the unique volume scale, the volume should increase or decrease accordingly.
- As a user, I want to read about the product so that I know what the product is for.
 - Given I am at any point on the website, when I scroll on the site or click appropriately in the navbar, I should see the “About” page.
 - Given I am on the “About” page, I should see a brief description of the project and a list of the founding members of the team.
- As a user, I want the website to be hosted so that I can access the website.
 - Given the link to “<http://lofi.ai.herokuapp.com/>”, when I travel to this link, I should see a fully functional version of the website hosted on Heroku displaying the Home, Player, About, and Learning with LoFi pages along with accompanying art.
- As a user, I want to read about the AI's progress so that I can fully understand what went into this project.
 - Given I am at any point on the website, when I scroll on the site or click appropriately in the navbar, I should see the “Learning with LoFi” page.
 - Given I am on the “Learning with LoFi” page, when I click on a topic in the accordion-style menu, the menu should expand and display the appropriate written section while hiding the content of others.
- As a user, I want to be able to read the track name and know how far into the track I am, so that I can refer to them.
 - Given I am at any point on the website, when I look to the right side of the navbar, I should see the following “You’re listening to track #_ : “ _ “ @ ___” displayed; the first blank should contain the track number, the second blank should contain the track name, and the third blank should contain a

fraction, i.e 0/20, representing my current place in the track over the total track duration in seconds.

- Given the music is currently playing, when I look to the right side of the navbar, the third blank should be continuously updated for each second played into the track.
- As a user I want to have icons for social media links placed on the site in a non-intrusive way so that I can experience the art on the website.
 - Given I am at any point on the website, when I scroll, I should see the icons for social media links stored on the right side of the navbar, kept away from the main content currently displayed.
- Work together in person at least once per sprint after a normal meeting

Product Design Patterns

- UI
 - Minimal
 - Warm colors (soft red, orange, navy)