

# Code Convention

## General

Add all new code to a new branch rather than the main branch. Docs and artifacts can be added to the main branch. Merges will be done by Ori.

All class/variable/function names should describe what they relate to or are use for.

## Frontend [Next.js]

### HTML Formatting

- HTML page must include explicit start and end <type></type> for every element
- Special CSS formats should be identified by for ex. <h1 id = "Title">
- Instead of 'class', use 'className' in Next.js
- The layout.tsx must hold a link to the header content which is in its own file
- <html> tags are not included in the page.tsx file
- Use HTML naming convention such as: <ul> <img> <li> <div> <a href> <p>

### CSS Formatting

- Use Verdana as the main font type
- Explicitly identify text color/size/weight for each text box

- Import CSS format file using 'import "relative/filepath"', not '<link rel="stylesheet" href="styles.css">'
- Use .ExampleClassName to apply formatting to child formats
- Use #ExampleClassName to apply formatting to only that object
- Align elements to the outside of the screen, not other elements

### Next.js Specific Formatting

- Place each new page in a new folder, where the folder name is the intended name of the page to display
- Each page is named page.tsx, the associated formatting is in layout.tsx in the same folder
- Use the layout.tsx file to format the page

## Backend [Python]

### CSV Formatting

- Use a separate csv file for each database
- Use the csv or pandas libraries to edit the user database
- Always order the file consistently
- Make sure each column has a clear header that identifies what the column contains

### Python Formatting

- Import all necessary libraries at the beginning of the file
- Start variables and function names with a lowercase letter and use the format of nameConventionText()

- Test Python code by adding print statements and frequently checking individual functions
- Add comments where possible to describe what the code is doing
- Limit the code under the main() function, have the main() function call other functions that implement the code
- Separate each function by at least one empty line

## Midware [Next.js]

### Next.js Specific Information

- Pull from the main branch before changing any code to ensure the system is up to date
- Place header information in a separate component file
- Place each page.tsx in a unique folder and link to the file location using relative paths
- User specific pages should be in dynamic folders for example ‘app/blog/[folder]/page.tsx’ where [folder] is a parameter in page
- Private folders should be named \_folder
- Build new pages directly in Next.js while the server is running to see changes immediately
- Label folders as the intended display path on the server
- Shut down the server before turning off the computer to prevent broken port usage
- Place all new page locations inside of the app folder