Frontend(React) (collects/parses/cleans user input):

Libraries:

Fluent UI JS: appearance and styling

Components:

Form (entrance for the form that collects user input)
- Fields
    - General Description
    - Template Selection
- Methods
    - OnSelectTemplate(int templateNumber)
        - A callback that is triggered when user selects a template, this callback sets the template selection field to the user-selected template number
    - OnClickSubmit()
        - A callback that is triggered when user finishes defining the structure of the webpage and feels ready to submit the information
    - OnChangeDescription(newDescription)
        - A callback that is triggered when user enters a new description, this callback sets the general description field to the user-entered description

Block (a block of the webpage)
- Fields
    - Heading
    - Font
    - Color
    - BackgroundColor
    - Content
    - (tentative) OtherBlocks
- Methods
    - OnChangeHeading(newHeading)
        - Triggered when user enters heading, sets the heading field to user-entered heading
    - OnSelectFont(newFont)
        - Triggered when user selects font, sets the font field
    - OnSelectColor(newColor)
        - Triggered when user selects color, sets the color field
    - OnSelectBackgroundColor(newBgColor)
        - Triggered when user selects background color, sets the backgroundColor field

Content (text or image of the block)
- Fields
    - Text: Optional
    - Image: Optional
    - ImagePosition: Optional (left/right/top/bottom)
- Methods
    - OnChangeText(newText)
        - Triggered when the user enters the text content of their webpage.
    - OnClickUploadButton()
        - For the user to choose a file to upload, triggered when user clicks on a "Upload image" button
    - OnChangeImage()
        - Triggered when the uploaded file is changed.

Example components:

```
Component Form {
      Return (
            <Field >
            <InputBox value={templateSelection} onSelect={onSelectTemplate}>
            ….
      )
}

Component someOtherComponent {
      Return (
            <Form>
      )
}
```


OpenAI Client (JavaScript):

Class Prompt
- generalPrompt
    - Preset prompt that describes the role of the assistant. (Eg: you are a frontend engineer developing, I'll give you…, generate….)

- Methods:
    - GetTemplatePrompt(templateNumber)

- Returns a preset prompt that describes the template that the user chooses (Eg: The webpage is for e-commerce….)
- GetPrompt()
    - Returns a string that contains the generalPrompt, GetTemplatePrompt() and GetUserInput().
- GetUserInput()
    - Transform user input into a string

Class APIManager
- OpenAI object
- Methods:
    - CreateChatCompletionObject(newPrompt)
        - Receives a prompt
        - Returns:
            - {
            - "id": "chatcmpl-123",
            - "object": "chat.completion",
            - "created": 1677652288,
            - "model": "gpt-3.5-turbo-0125",
            - "system_fingerprint": "fp_44709d6fcb",
            - "choices": [{
            - "index": 0,
            - "message": {
            - **"role": "system",**
            - **"Content": newPrompt,**
            - },
            - "logprobs": null,
            - "finish_reason": "stop"
            - }],
            - "usage": {
            - "prompt_tokens": 9,
            - "completion_tokens": 12,
            - "total_tokens": 21
            - }
            - }
    - QueryLlm(body)
        - Sends an API request to the LLM API and gets a response