**Project Name: Brand Name Generator**

**Purpose: A web application that generates unique brand names using OpenAI based on user-input keywords and categories.**

**Technical Requirements**

**1. Frontend (User Interface)**

* **Fonts:**
  + **Headings: Jost font (via Google Fonts).**
  + **Other text: Montserrat font (via Google Fonts).**
  + **Result cards: Randomly selected fonts from the Google Fonts API.**
* **Animations:**
  + **Loading animation: A rotating gear icon in the center (CSS/SVG/Lottie).**
  + **8-second cooldown period after clicking the "Generate New" button (animation remains active).**
* **Components:**
  + **Home Page:**
    - **Keyword input field (3-5 keywords required).**
    - **Responsive design (light theme) with background color: #EFF3F9.**
    - **Category selection field (e.g., Software, Trade, Fashion).**
    - **Tag system: Each keyword is displayed as a deletable "tag" with an "X" button.**
    - **"Generate" button (redirects users to the results page).**
  + **Results Page:**
    - **4 white-background cards (responsive design).**
    - **Each card includes:**
      * **AI-generated name (with a random Google Fonts font).**
      * **Color picker to change the text color.**
    - **Buttons:**
      * **↩ Create New Names: Returns to the home page and resets the form.**
      * **🔄 Generate New: Generates 4 new names after an 8-second cooldown (same criteria).**
    - **Language Support:**
      * **Language switcher (Turkish/English) to change the language of all texts.**

**2. OpenAI Integration**

* **Prompt Optimization: Queries optimized as "Generate 4 unique, brandable, and category-appropriate names for a [category] company using keywords: [keywords]. Names must be professional and catchy."**
* **Filtering: Cache or uniqueness checks to prevent duplicate names.**
* **API Security: Rate limiting (1 request per user every 8 seconds).**
* **Endpoints:**
  + **POST /generate-names: Returns a list of names from OpenAI based on user-provided keywords and category.**
  + **GET /fonts: Returns a list of random Google Fonts (for result cards).**

**User Flow**

1. **Home Page:**
   * **User adds 3-5 keywords (displayed as tags).**
   * **Selects a category (e.g., "Software").**
   * **Clicks "Generate."**
2. **Results Page:**
   * **Loading animation appears (during OpenAI request).**
   * **4 unique names are displayed on cards.**
   * **User can:**
     + **Change text color using a color picker.**
     + **Click "Generate New" to request more names (8-second cooldown).**
     + **Click "↩ Create New Names" to return to the home page.**
3. **Error Handling:**
   * **Warn users if keyword count is <3 or >5.**
   * **Display error messages for OpenAI failures.**

**Additional Notes**

* **OpenAI Optimization: Ensure prompts include clear category and keyword inputs.**
* **Performance: Implement caching for faster font loading on the results page.**