**Project Overview:**  
Develop a **multi-tools website** featuring a minimum of **100 tools** such as **image converters, calculators, SEO tools, text utilities, unit converters, and other useful tools**. Each tool should be in its **own separate file**, and the site should have a **common header and footer** for consistency.

**Key Features:**

**✅ Index Page (index.html)**

* Displays **all tools** in a well-structured, **grid-based layout**.
* **Search bar** to filter and find tools easily.
* Sections categorized based on tool types (e.g., **Image Tools, SEO Tools, Calculators, Text Tools, Developer Tools, etc.**).
* **Advertisement space** for monetization.

**✅ Individual Tool Pages**

* Each tool should be in a **separate file** (e.g., image-to-png.html, word-counter.html, meta-tag-generator.html, etc.).
* Fully **responsive design** for all screen sizes.
* **User-friendly UI** with clean and interactive elements.
* **Fast loading speed** optimized with minimal but effective scripts.

**✅ Common Components**

* **Header (header.html)**: Includes site logo, navigation menu, and search bar.
* **Footer (footer.html)**: Includes contact info, social media links, and copyright notice.

**✅ Ads Section**

* **Dedicated ad spaces** for placing Google AdSense or other ads.
* **Ads displayed smartly** without disrupting the user experience.

**Tools to Include (Minimum 100)**

**Image Tools**

1. Image to PNG Converter
2. Image to JPG Converter
3. Image Resizer
4. Image Compressor
5. Image Cropper
6. Image to Base64 Converter
7. Convert Image to WebP
8. Convert WebP to PNG
9. GIF Maker
10. QR Code Generator

**SEO Tools**

1. Meta Tag Generator
2. Keyword Density Checker
3. Sitemap Generator
4. Robots.txt Generator
5. Google Index Checker
6. Backlink Checker
7. Domain Authority Checker
8. Page Speed Analyzer
9. XML Sitemap Validator
10. Website Mobile-Friendly Test

**Text & Writing Tools**

1. Word Counter
2. Character Counter
3. Sentence Case Converter
4. Plagiarism Checker
5. Grammar Checker
6. Text to Speech Converter
7. Speech to Text Converter
8. URL Encoder & Decoder
9. Random Text Generator
10. Fancy Text Generator

**Developer Tools**

1. JSON Formatter
2. HTML to Markdown Converter
3. CSS Minifier
4. JavaScript Minifier
5. SQL Formatter
6. HTACCESS Redirect Generator
7. Markdown to HTML Converter
8. Color Code Picker
9. Base64 Encoder & Decoder
10. IP Address Lookup

**Math & Calculators**

1. Percentage Calculator
2. Age Calculator
3. BMI Calculator
4. Loan EMI Calculator
5. Scientific Calculator
6. Discount Calculator
7. Fraction Calculator
8. Currency Converter
9. Time Zone Converter
10. Binary to Decimal Converter

**Unit Converters**

1. Length Converter
2. Weight Converter
3. Speed Converter
4. Temperature Converter
5. Volume Converter
6. Data Storage Converter
7. Energy Converter
8. Pressure Converter
9. Fuel Efficiency Converter
10. Angle Converter

**Security & Encryption Tools**

1. MD5 Hash Generator
2. SHA256 Hash Generator
3. Password Generator
4. Random String Generator
5. URL Shortener
6. IP Geolocation Finder
7. SSL Certificate Checker
8. Whois Lookup
9. HTTP Headers Checker
10. Privacy Policy Generator

**Social Media Tools**

1. YouTube Thumbnail Downloader
2. Instagram Photo Downloader
3. Twitter Video Downloader
4. Facebook Video Downloader
5. TikTok Video Downloader
6. YouTube Tags Extractor
7. YouTube Title Generator
8. Hashtag Generator
9. Social Media Post Generator
10. Emoji Keyboard

**Miscellaneous Tools**

1. Barcode Generator
2. Meme Generator
3. Resume Builder
4. Invoice Generator
5. Business Name Generator
6. Lottery Number Generator
7. Flip a Coin Simulator
8. Random Number Generator
9. Dice Roller Simulator
10. Calendar Maker
11. Daily Planner Generator
12. To-Do List Creator
13. Wedding Invitation Generator
14. Story Plot Generator
15. E-book Creator
16. Meme Caption Generator
17. AI Chatbot Demo
18. Internet Speed Test
19. IP Address Tracker
20. Fake Address Generator

**Development Requirements:**

* **HTML, CSS, JavaScript (Vanilla or with frameworks like Tailwind/Bootstrap for styling).**
* **JavaScript for functional tools** (e.g., text processing, SEO calculations).
* **API integration** where needed (e.g., IP lookup, currency converter).
* **Fully responsive design** (mobile-first approach).
* **SEO-optimized pages** for organic traffic.
* **Fast-loading and lightweight scripts.**
* **Clean UI with an attractive design.**

**Monetization (Ads Integration)**

* Include **Google AdSense or affiliate banners** in non-intrusive areas.
* Display **ads smartly** without affecting user experience.
* Dedicated **ad spaces in tool pages, sidebars, and footers.**