**Project Overview:**

Develop a **fully responsive Multi-Tools Website** using **core HTML, JavaScript, and Bootstrap (or CSS)**. The website should contain a minimum of **100 tools**, including **image converters, calculators, SEO tools, text utilities, unit converters, developer tools, and more**. Each tool must be in a **separate file**, ensuring clean and modular development.

**Key Features:**

**✅ Home Page (index.html)**

* **Displays all tools** in a structured, **grid-based layout** using **Bootstrap (or CSS Flexbox/Grid)**.
* A **search bar** to help users find tools easily.
* **Categorized sections** (e.g., **Image Tools, SEO Tools, Calculators, Developer Tools, etc.**).
* **Ad sections** for monetization (Google AdSense or other ads).

**✅ Individual Tool Pages**

* Each tool should be in its **own separate file** (e.g., image-to-png.html, word-counter.html, etc.).
* **Simple yet attractive UI** designed using **Bootstrap or custom CSS**.
* **Fully responsive** for desktop, tablet, and mobile devices.
* Uses **JavaScript for tool functionality** (e.g., conversions, calculations, text processing).
* **Fast-loading** with optimized scripts.

**✅ Common Components**

* **Header (header.html)**: Contains the **site logo, navigation menu, and search bar**.
* **Footer (footer.html)**: Includes **contact info, social media links, and copyright notice**.
* Both **header and footer** should be included dynamically in all pages using JavaScript.

**✅ Ads Section**

* **Smartly placed ad spaces** to maximize revenue without disrupting the user experience.
* Ads in **tool pages, sidebar, and footers**.

**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. Convert Image to Base64
7. Convert WebP to PNG
8. GIF Maker
9. QR Code Generator
10. Screenshot to PDF Converter

**SEO Tools**

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

**Text Tools**

1. Word Counter
2. Character Counter
3. Case Converter
4. Plagiarism Checker
5. Grammar Checker
6. Text-to-Speech
7. Speech-to-Text
8. URL Encoder & Decoder
9. Fancy Text Generator
10. Random 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. Currency Converter
8. Time Zone Converter
9. Binary to Decimal Converter
10. Tip Calculator

**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. Hashtag Generator
8. Social Media Post Generator
9. Emoji Keyboard
10. Twitter Character Counter

**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. Internet Speed Test
11. Daily Planner Creator
12. Wedding Invitation Generator
13. Story Plot Generator
14. E-book Creator
15. AI Chatbot Demo
16. IP Address Tracker
17. Fake Address Generator
18. Calculator for Electric Bills
19. Leap Year Checker
20. Name to Numerology Calculator

**Development Requirements:**

* **Core HTML, CSS (or Bootstrap), and JavaScript (Vanilla JS only, no frameworks).**
* **Grid-based layout** for listing tools (Bootstrap Cards or Flexbox/Grid).
* **JavaScript-based search functionality** for tools.
* **Minimal external dependencies** for faster loading.
* **SEO optimization** for better ranking.
* **Mobile-first responsive design** using Bootstrap or custom media queries.
* **Dynamic header and footer inclusion** using JavaScript.

**Monetization Strategy (Ad Integration)**

* **Google AdSense or affiliate ads** in the sidebar, tool pages, and footer.
* Non-intrusive ad placement to keep users engaged.

**Project Deliverables:**

* A fully functional **index.html** with **100+ tools listed and categorized**.
* Individual **HTML pages for each tool** with **JavaScript functionality**.
* **CSS or Bootstrap styling** for a professional, attractive UI.
* **Ad spaces** ready for monetization.