**Project Title: RESEARCH BASE**

**Developed by:** Abraham Michael Bob Konteh  
**Institution:** University of Electronic Science and Technology of China

**Project Overview**

The **RESEARCH BASE** website will be an advanced research platform that assists researchers, students, and professionals in accessing relevant information across multiple sources. It will serve as a one-stop solution for research-related queries, providing comprehensive answers, solving academic problems, and offering downloadable resources such as PDFs and Word documents.

**Key Features & Functionalities**

1. **Search Engine Integration**
   * Uses AI-driven web scraping and APIs to fetch data from various research sources.
   * Supports keyword-based and question-based searches.
   * Toggles all major academic and research websites for relevant information.
2. **AI-Powered Question Answering**
   * An intelligent chatbot to provide direct answers to research questions.
   * Summarization of complex topics.
3. **Document Repository**
   * Provides access to research papers, articles, books, and academic materials.
   * Users can download PDF and Word documents for further reading.
4. **User Accounts & Profiles**
   * Allows users to create accounts and save research progress.
   * Bookmark important research papers.
5. **Categorized Research Topics**
   * Organized research materials by discipline (Science, Law, Engineering, AI, Medicine, etc.).
   * Easy navigation for users based on their field of study.
6. **Collaboration & Community Forum**
   * Discussion forums for researchers to share ideas.
   * Users can ask questions and get answers from other scholars.
7. **Citation & Reference Generator**
   * Automated citation tool supporting APA, MLA, Chicago, and other referencing styles.
8. **Mobile & Web Accessibility**
   * Fully responsive website with a mobile-friendly design.
   * Potential mobile app integration for easy access.

**Technical Requirements**

* **Frontend:** React.js, Next.js, Tailwind CSS
* **Backend:** Node.js, Express.js, Python (for AI-based features)
* **Database:** PostgreSQL / MongoDB
* **APIs & Integrations:** Google Scholar, OpenAI API, ResearchGate API
* **Hosting:** AWS / Firebase / Vercel

**Project Timeline**

1. **Planning & Research** (2 Weeks)
2. **UI/UX Design** (3 Weeks)
3. **Backend & Database Development** (4 Weeks)
4. **Frontend Development** (4 Weeks)
5. **Testing & Debugging** (3 Weeks)
6. **Deployment & Maintenance** (Ongoing)