

## Webcraft AI

Authors:

Shreyansh Shikhar Srivastava , Saurabh Kumar , Prachi Singh

**Guide Prof. Badal Bhushan**

Assistant Professor, Department Of CSE  
**Department Of Computer Science and Engineering**  
**IIMT College Of Engineering**

### ABSTRACT

WebCraft AI is a user-friendly website builder that allows users to create an online presence with minimal effort and creative freedom. It offers features like online storage, e-commerce tools, video backgrounds, title animations, mobile apps, and a free service tier. The platform offers hundreds of template choices, many of which are free, and includes options for text, media, social media widgets, buttons, and shapes. Users can edit template designs with ease, using right-click context menus to change images or edit text. The platform also allows users to customize page design, add new pages, and change the site's navigation hierarchy. WebCraft AI offers nearly 20 top-level site types, each with subcategories, and a free service tier. Users can choose to use a site template or have WebCraft AI automatically create a site using Artificial Design Intelligence (ADI).

**Keywords:** Free website templates, Easy web design, Customizable page design, User-friendly website builder.

### Key Features of the System are:

- Drag and Drop Functionality – Building an User Friendly Drag and Drop Functionality for easy customization of website ensuring that users can easily add and modify text, images, videos and other components.
- Template System – Creating a system for users to choose templates for their websites. Develop templates that users can customize with their own content and design preferences.
- SEO Feature – Incorporate SEO tools and settings to help users optimize their websites for search engines.
- Mobile Optimization – Ensuring that platform are optimized for mobile devices.
- Domain Management – Providing users with the ability to their custom domains to the websites they create.
- User Authentication – Implementing a user authentication system to allow users to create accounts, log in and manage their websites.

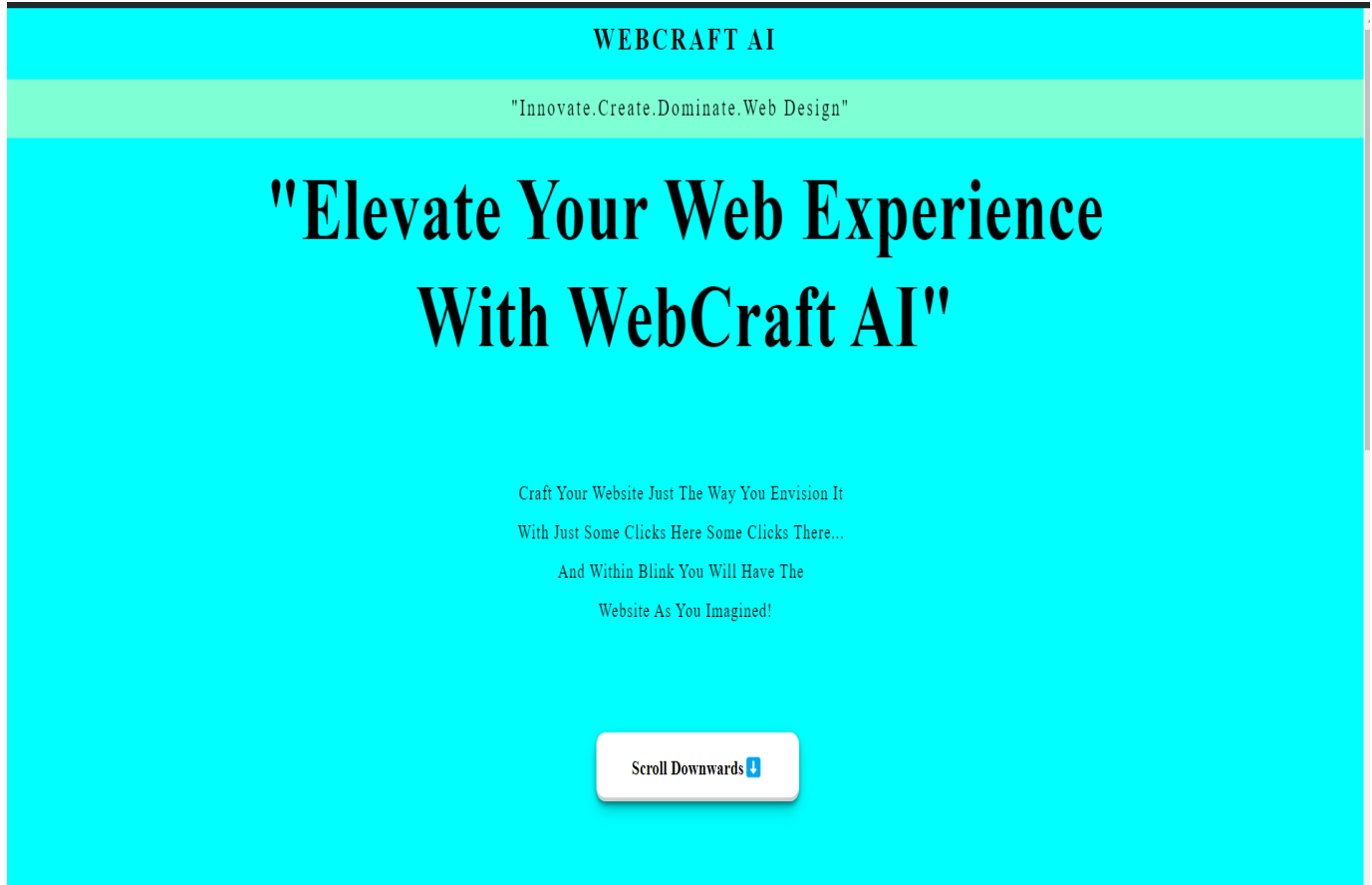


Figure 1 : HomePage

## Motivation:

We tried using the WebCraft AI ADI to build a test local business website. It dramatically simplifies site building, it's surprisingly fun to use and it offer lot of hand holdings. You start by answering few basic questions about the sites purpose, features, location and title. It then searches the web for content related to your business or activity.

WebCraft AI takes sometimes to complete it's design work. It tells you what it's doing through the process, like adding menus and optimizing your mobile site. Webcraft AI also let you add images from other online sources such as flicker and facebook. Ditto for videos. You can use video in places where the others only let you use photos, such as the main theme background. The service also provides lots of stock images and videos to use on your site.

You get full photo editing and enhancement capabilities with the integrated Aviary editor. It's simple to add a link to an image, either external or to a page in your site. You can also add border, and animation such as fade-in, and choose among resizing behaviors such as autocrop, center, stretch and fit.

The system will include a feature allowing users to input and adjust values for various components according to their specific requirements. This customization will be facilitated through an interactive interface with elements such as sliders, input fields, and dropdowns. Users will receive real-time updates and immediate visual feedback, reflecting changes in the outputs and results based on their adjustments. This dynamic interaction enhances user engagement and satisfaction by enabling a personalized and responsive experience.



Figure 2 : WebCraft by-default Page



Figure 2 : WebCraft after adding some values to Div Component.

SL No.	Paper Title	Authors	Year	Name of Publisher	Technology
1	Automating Web Development the role of AI	Robert Green	2022	IEEE	NLP and Machine Learning
2	Intelligent Website builders	Emily Turner	2021	Journal of Web Engineering	NLP and Machine Learning
3	Enhancing Web Design with AI Technique and challenges.	Michael Johnson	2021	ACM Digital Library	Deep Learning
4	Web Page Builder	Prof. Akshata Laddha	2020	IRJET	MERN
5	Automated website builder using AI	John Doe and Jane Smith	2020	IEEE	Machine Learning
6	Integrating AI in web Development Workflows	Laura Adams	2020	IEEE	AI, Bug detection and Automated Testing.
7	Web design	Carlos Flavian	2019	JSIT	Web dev
8	NO-CODE WEB DEVELOPMENT	Gurukiran Ac	2018	IRJMETS	HTML, CSS and Javascript
9	A Study Case of Website Builders	Argo Hadi Kusumo	2018	IRJMETS	MERN
10	The Mechanics of AI website Builders : How Do they work?	JAMES MCMINN	2018	IEEE	Angular JS

**Literature Survey related to topic:**

PROS	CONS
✓ Remarkably simple interface	× Third-party apps offer better analytics
✓ Numerous widgets	× Doesn't let you switch templates
✓ Hundreds of templates for specific businesses and other uses	
✓ Good mobile-site-building tools	
✓ Cool, AI-powered site design tools	
✓ Many commerce options, including the ability to sell digital downloads	
✓ Free option	

**Problem formulation:**

A variety of tools are available on WebCraft AI, a user-friendly, free website building platform, to assist users in developing expert websites and establishing their online presence. Users can use pre-made templates or start from scratch when creating their own websites with the platform's easy-to-use editor. Users can construct as many websites as they like using WebCraft AI, which is free to use. If they would like additional capabilities, they can upgrade to the Premium Plan. The platform provides a wide range of tailored designs and resources for different business sectors, such as personal blogs, online businesses, consulting firms, and portfolios. The App Market provides more than 250 expert site customisation options, such as lead generation, traffic analysis, and customer engagement tools. With WebCraft AI Payments, users can securely and conveniently accept payments while centrally managing all payment-related tasks. This platform is made to assist users in developing their online presence, from increasing search engine visibility to starting a business.

**Objectives:**

- Creation for all – Our easy to use editor allow you to create your site just the way you want.
- WebCraft AI is free – It's free as long as you wish to create as many websites you want.
- WebCraft AI has something for everyone – No matter what you come to webcraft AI to create we have the custom design and tools ready to help you to make it happen.
- Build your business with WebCraft AI – With your professional site, you can accept payments connected, you can manage everything in one place from payments to orders, bookings, events, services and more.

**Planning of Work:**☐ **Technology Stack:**

- HTML, CSS, JavaScript
- Server-side technologies
- Backend framework and database

☐ **Frontend Development:**

- Designing the user interface
- Implementing a drag-and-drop editor

☐ **Backend Development:**

- Handling user accounts
- Managing templates
- Content storage
- Content management system (CMS) for organizing user-created content

☐ **User Authentication System:**

- User account creation
- User account management

☐ **Template System:**

- Allowing users to choose templates
- Enabling customization with user content

☐ **App Marketplace:**

- Allowing third-party developers to create and submit apps

☐ **Mobile Optimization:**

- Ensuring websites are optimized for mobile devices

☐ **SEO Features:**

- Implementing search engine optimization features

☐ **Domain Management:**

- Allowing users to connect custom domains to their websites

☐ **Testing:**

- Usability testing
- Security testing
- Performance testing

☐ **Launch:**

- Launching the platform after testing

☐ **Continuous Improvement:**

- Based on user feedback
- Adapting to changing technologies

**Facilities required for proposed work:**☐ **Development Tools:**

- Integrated Development Environments (IDEs)



- Code version control systems

☐ **Frontend Technologies:**

- HTML
- CSS
- JavaScript

☐ **Backend Technologies:**

- Server-side scripting languages
- Backend frameworks

☐ **Database Management Systems:**

- MongoDB
- MySQL
- PostgreSQL

☐ **Storage Systems:**

- Storage solutions like MongoDB, MySQL, and PostgreSQL

☐ **User Authentication:**

- Essential for managing user accounts and security

☐ **Content Management System (CMS):**

- For managing user-generated content

☐ **Third-Party Integrations:**

- APIs for third-party services
- App integration frameworks

☐ **SEO Tools:**

- Essential for optimizing websites for search engines

☐ **Mobile Optimization:**

- Responsive design
- Mobile development tools

☐ **Security:**

- Handling encryption
- Data validation
- Protecting against web vulnerabilities

☐ **Testing Tools:**

- Unit testing
- Integration testing
- End-to-end testing

☐ **Documentation Tools:**

- Creating user guides
- Developer documentation
- API documentation

☐ **Hardware Requirements:**

- High-performance computers
- Backup systems
- Monitoring and analytics tools
- Security infrastructure
- Load balancers

☐ **Scalability:**

- Considering potential increases in user base and website complexity

**Bibliography/References**

Tondreau, B. (2015). Layout Essentials: 100 Design Principles for Using Grids. Rockport Publishers.

Martin, R. C. (2009). Clean Code: A Handbook of Agile Software Craftsmanship. Prentice Hall.

Duckett, J. (2014). HTML and CSS: Design and Build Websites. Wiley.