

GenAI and Prompt Engineering

Project: No Code AI

Course: CS589

Professor: Dr. Henry Chang

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Abstract



The project "Node-Code AI: Create a Website using Websim" demonstrates the transformative potential of Generative AI and No-Code AI platforms in modern web and app development. By leveraging Websim, an innovative AI tool designed for instant prototyping, users can create sophisticated digital solutions without the need for extensive programming knowledge. This project involves following a detailed procedure outlined in "WebSim.ai"

In this project, three distinct applications were developed: a game website, an ecommerce app, and a dating app. The game website features a collection of interactive games such as Hangman, Memory Matcher, Tic Tac Toe, Car Race, Minesweeper, and Sudoku, each with an attractive UI, detailed rules, and scoreboards. The ecommerce app offers a seamless shopping experience with user-friendly navigation, product search, shopping cart functionality, and secure checkout. The dating app connects users through detailed profiles, matchmaking algorithms, chat functionality, and privacy settings, providing a comprehensive and engaging user experience.

To showcase and share these projects, the final step involves updating the portfolio by linking the Google Slides presentation to GitHub. This integration not only enhances professional visibility but also highlights the practical application of No-Code AI tools in creating functional and aesthetically pleasing digital solutions. By successfully completing these projects using Websim, the potential of Generative AI in democratizing technology and making development accessible to a wider audience is clearly demonstrated.

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Introduction



Welcome to our presentation on the revolutionary capabilities of No-Code AI and Generative AI in web and app development. In this project, we leverage Websim, an innovative AI tool that simplifies and accelerates the creation of sophisticated digital solutions. This presentation will showcase how we utilized Websim to develop three distinct applications: a game website, an ecommerce app, and a dating app, without writing any code.

Key Highlights:

- **Generative AI:** Harnessing AI to automate and enhance the design and development process.
- **No-Code AI:** Enabling users to create functional and visually appealing websites and apps with ease.
- **Websim:** A powerful tool for instant prototyping, making development accessible to everyone.

Project Overview:

1. **Game Website:** A collection of interactive and engaging games.
2. **Ecommerce App:** A seamless and user-friendly shopping platform.
3. **Dating App:** A modern application to connect users based on their preferences and interests.

No Code AI Tool



What is Websim?

- **Websim** is an innovative AI-powered tool designed for instant website and app prototyping.
- It enables users to create fully functional and visually appealing digital solutions without any coding knowledge.

Key Features:

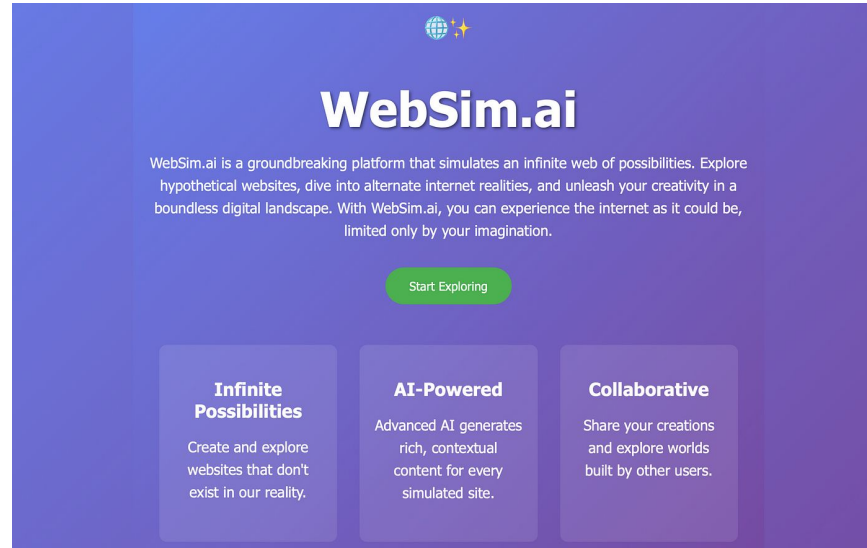
- **No-Code Development:** Allows users to build websites and apps through an intuitive interface.
- **Rapid Prototyping:** Quickly generate prototypes to visualize and refine your ideas.
- **Responsive Design:** Ensures that created websites and apps are optimized for all devices, including mobile.
- **Customization Options:** Provides a range of templates, themes, and design elements to tailor projects to specific needs.
- **User-Friendly Interface:** Easy-to-use, making it accessible for users of all skill levels.



Benefits:

- **Efficiency:** Drastically reduces the time required to develop websites and apps.
- **Accessibility:** Opens up development to non-programmers, democratizing technology.
- **Creativity:** Empowers users to focus on creative aspects rather than technical details.
- **Cost-Effective:** Eliminates the need for extensive development resources and costs.

URL: <https://websim.ai/>



WebSite Building



Steps : How to Build

- 1- Goto <https://websim.ai/>
- 2- Sign in the Account.
- 3- Decide the website to be build.
- 4- Design the prompt as per your requirements.
- 5- Modify the prompt with more details and context.
- 6- Enter the prompt in websim ai.
- 7- Generate the website published in websim site.

WebSite Building-1



1- Arcade Paradise (Game Hub)

Games to Include:

1. Hangman
2. Memory Matcher
3. Tic Tac Toe
4. Car Race (mobile-friendly)
5. Word Search Puzzle
6. Minesweeper

Features and Design:

1. **Attractive Title and UI:** Eye-catching title and visually appealing interface.
2. **Game Menu:** Display games in rows of three with light green/parrot color backgrounds.
3. **Game Descriptions and Rules:** Show descriptions and rules upon game selection.
4. **Start and Restart Options:** Include buttons to start and restart each game.
5. **Scoreboard and Feedback:** Record/display highest scores; show sad emojis for losses and showering flowers for wins.
6. **Responsive Design:** Ensure full responsiveness and mobile optimization, especially for the Car Race game.

WebSite Building-1



Prompt

Create a website featuring a collection of engaging games with the following specifications:

Games to Include:

1-Hangman

2-Memory Matcher

3-Tic Tac Toe

4-Car Race (mobile-friendly)

5-Word search puzzle

6-Minesweeper

Features and Design:

Attractive Title and UI: Design the website with an eye-catching title and a visually appealing user interface.

Game Menu: Implement a menu displaying all the games, with a vibrant background image and complementary colors.

WebSite Building-1



Prompt

Make light green or parrot color for menu boxes.

Game Descriptions and Rules: When a game is selected, show its description and rules.

Start Game Button: Include a button to start the game after reading the rules.

Restart Game Option: Ensure each game has a restart option.

Scoreboard: Record and display the highest scores for each game.

End of Game Feedback:

Display sad emojis when a game is lost.

Show congratulations with showering flowers when a game is won.

Responsive Design: Ensure the website is fully responsive and optimized for mobile devices.

Additional Notes:

Focus on creating an appealing user experience with a well-thought-out and attractive design.

Prioritize mobile usability, especially for the Car Race game.

WebSite Building-2



2 - Amazon Hot Deal Website

Introduction:

Welcome to our Amazon Hot Deals website, a dynamic platform designed to showcase the best deals on a wide range of products with an attractive and user-friendly interface. Leveraging the power of Websim, this website offers a seamless shopping experience, making it easier than ever to find and purchase the hottest deals on Amazon.

Key Features:

- **Attractive UI:** A visually appealing design with vibrant colors and an intuitive layout.
- **Search Bar and Menus:** Easily find products using the search bar and navigate through categories using the menu bar with icons.
- **Responsive Design:** Optimized for all devices, ensuring a smooth experience whether you're on a desktop or mobile device.
- **Product Listings:** Over 200 products displayed with images, categorized and filterable by price.
- **Lazy Loading:** Efficiently browse products with the "Load More" button for a seamless experience.

This website is designed to enhance your shopping experience, providing a visually engaging and functional platform to discover Amazon's best deals.

WebSite Building-2



Prompt

Create a website showcasing Amazon hot deals with the following features:

Features:

1. **Attractive UI:** Design with a visually appealing and user-friendly interface.
2. **Search Bar:** Include a search bar for easy product searching.
3. **Menus and Icons:** Add a menu bar with icons for different product categories.
4. **Scrollable View:** Implement a scrollable view with a responsive design.
5. **Category-Based Display:** Show products based on the selected menu bar categories.
6. **Price Filtering:** Include filters to sort products by price.
7. **Product Listings:** Add at least 200 products with images.
8. **Lazy Loading:** Implement lazy loading with a "Load More" button.
9. **Responsive Design:** Ensure the website is fully responsive and optimized for all devices.

WebSite Building-3



3 - Instagram Dating Website

Introduction:

Welcome to Instagram Dating, a modern and intuitive dating platform designed to help you find meaningful connections. Our website, available at instagram.dating, offers a seamless and engaging experience for users to explore potential matches based on their preferences.

Key Features:

- **Clean and Modern UI:** Inspired by Instagram's aesthetic, our interface is clean, visually appealing, and easy to navigate.
- **Gender Filters:** Easily filter profiles based on gender preferences: Men, Women, Non-Binary, or All.
- **Dynamic Profile Loading:** View profiles in batches of four with the option to load more profiles dynamically, ensuring a smooth and interactive browsing experience.
- **Comprehensive Menu:** Navigate through the website with ease using our well-organized menu options: Explore, Matches, and Profile.
- **Responsive Design:** Our website is optimized for all devices, providing a consistent and enjoyable user experience on desktops, tablets, and mobile phones.

Join us on Instagram Dating to discover new connections and explore profiles tailored to your preferences. With a user-friendly interface and advanced filtering options, finding your perfect match has never been easier.

WebSite Building-3



Prompt

Create a dating website with the following features, based on the provided image:

Key Features:

1. **Attractive UI:** Design with a clean and modern interface similar to Instagram.
2. **Gender Filters:** Include options to filter profiles based on gender: Men, Women, Non-Binary, and All.
3. **Profile Display:** Show user profiles with photos, names, ages, and brief descriptions.
4. **Load More Button:** Initially load 4 profiles. Include a "Load More" button to dynamically load additional profiles in batches of 4 when clicked.
5. **Responsive Design:** Ensure the website is fully responsive and optimized for all devices.

Menu Options:

- **Explore:** Discover new profiles based on selected gender filters.
- **Matches:** View matched profiles.
- **Profile:** Manage user profile settings and information.

WebSite Building-3



Prompt

Profile Details:

- **Profile Image:** Display a clear and prominent profile picture.
- **Name and Age:** Show the user's name and age.
- **Description:** Provide a brief description or bio for each user.

Additional Requirements:

- **Lazy Loading:** Implement lazy loading for profiles to enhance performance and user experience.
- **User Interaction:** Ensure smooth transitions and interactions when navigating through profiles and loading more content.

Demo ScreenShots

URL: <https://websim.ai/c/mhtLLIXLrjFrGOG2a>

Arcade Paradise

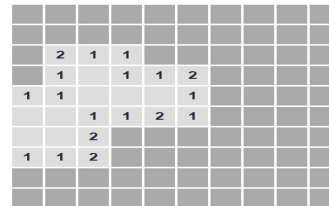


Tic Tac Toe

X		O
	O	
X		X

Current Player: X

Minesweeper



Mines: 15

Revealed: 26

Hangman

Word: _ a _ _

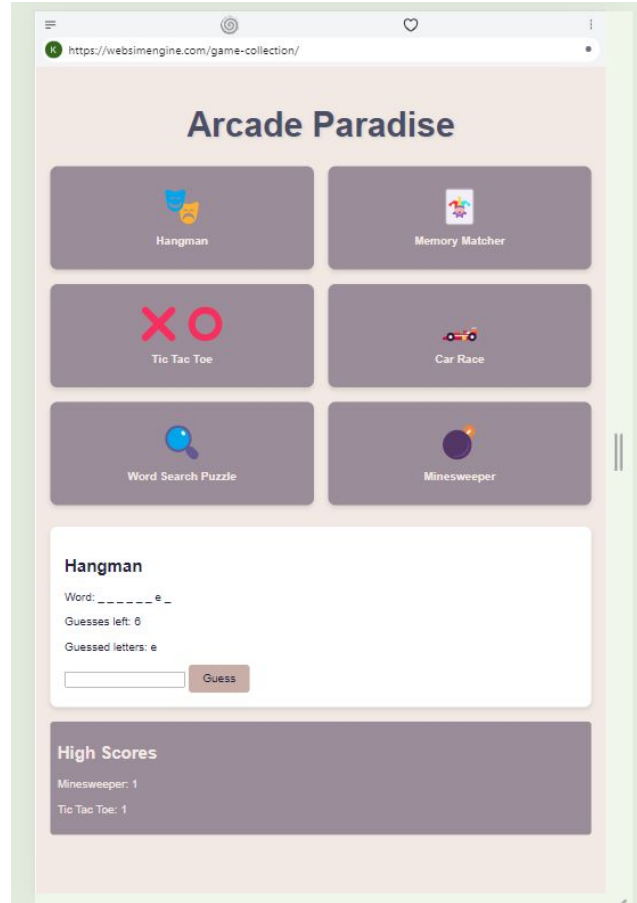
Guesses left: 5

Guessed letters: a, q

Guess

Demo ScreenShots

Mobile View:





Demo ScreenShots

URL: <https://websim.ai/c/EXxx6s9FjWU054UMs>









Amazon Hot Deals Website

https://amazonhotdeals.shop

AmazonHotDeals Search for deals...  

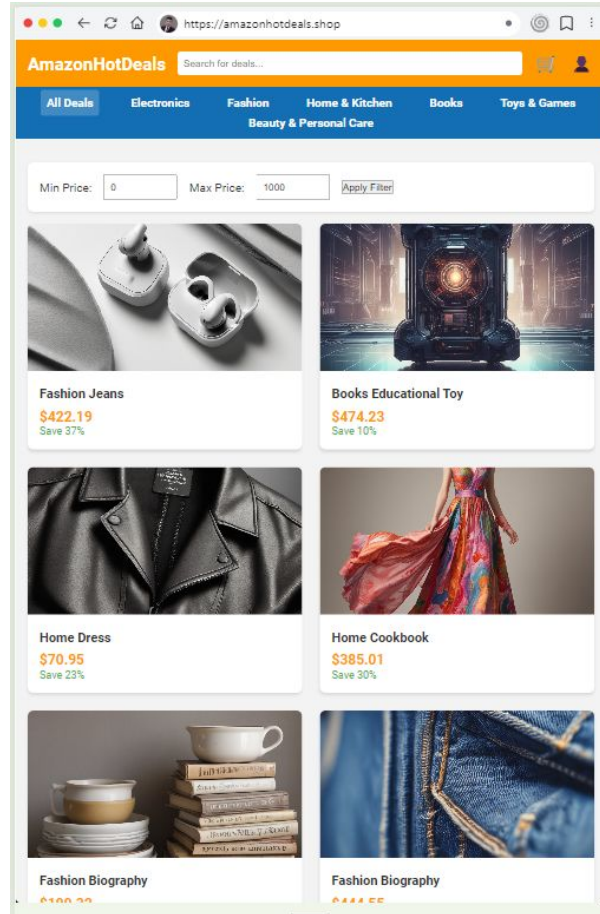
[All Deals](#) [Electronics](#) [Fashion](#) [Home & Kitchen](#) [Books](#) [Toys & Games](#) [Beauty & Personal Care](#)

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 <p>Fashion Jeans \$422.19 Save 37%</p>	 <p>Books Educational Toy \$474.23 Save 10%</p>	 <p>Home Dress \$70.95 Save 23%</p>	 <p>Home Cookbook \$385.01 Save 30%</p>
 <p>Fashion Biography \$199.32 Save 32%</p>	 <p>Fashion Biography \$444.55 Save 55%</p>	 <p>Books Shampoo \$427.95 Save 21%</p>	 <p>Books Dollhouse \$170.36 Save 46%</p>

Demo ScreenShots

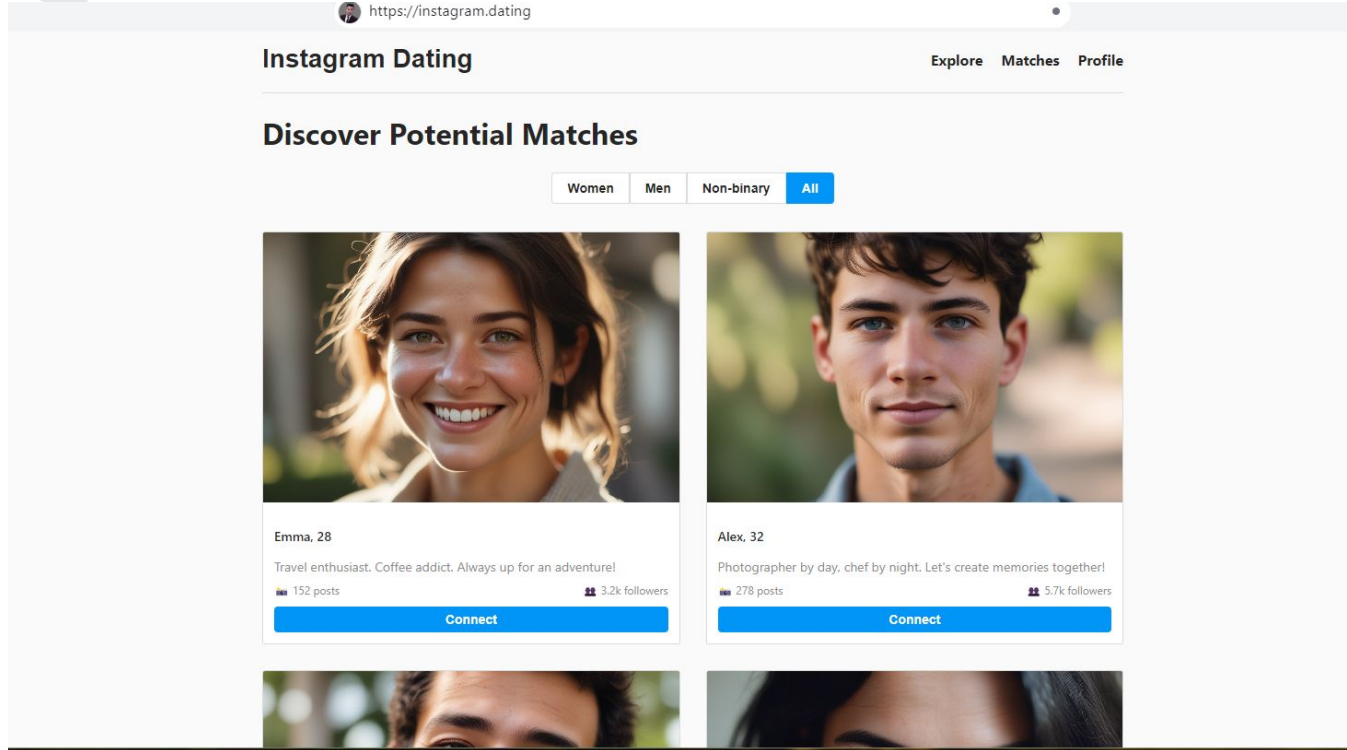
Mobile View:



Demo ScreenShots

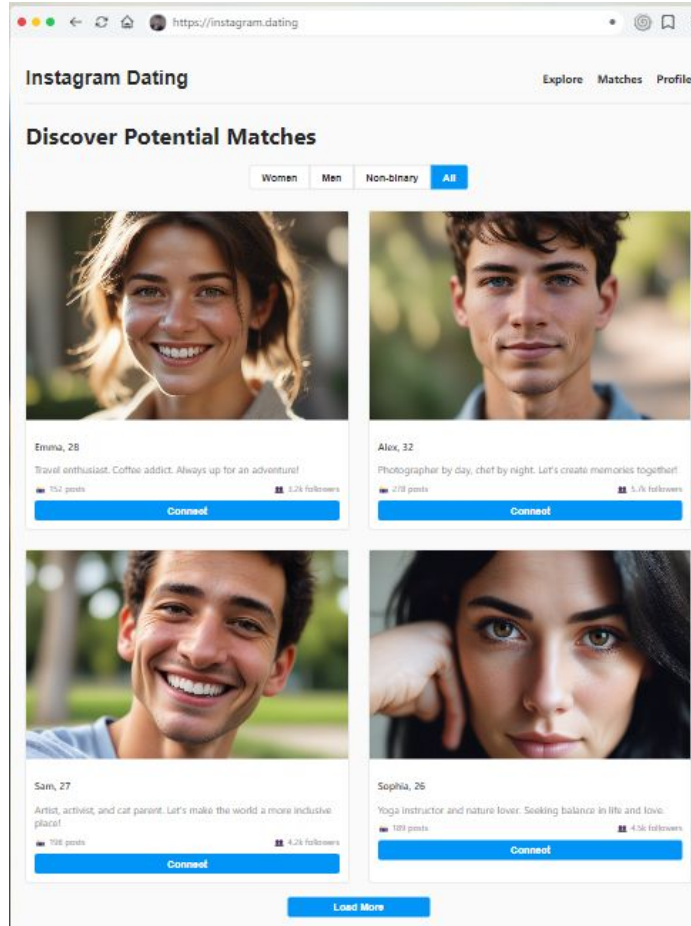
URL: <https://websim.ai/c/k1xg71BuOWMATqPJz>

Instagram Dating Website



Demo ScreenShots

Mobile View:





Conclusion

Our No-Code AI project has demonstrated the transformative potential of leveraging AI tools like Websim to create sophisticated digital solutions without writing a single line of code. Through this project, we successfully developed a game website, an ecommerce platform, and a dating app, each showcasing the versatility and power of no-code development.

The game website features interactive and engaging games with dynamic loading and user-friendly navigation. The ecommerce platform provides a seamless shopping experience with extensive product listings and filtering options. The dating app combines a modern UI with advanced filtering and dynamic profile loading, ensuring an enjoyable user experience. Each of these projects highlights the efficiency, accessibility, and creativity that No-Code AI platforms bring to web development.

Looking forward, the possibilities with No-Code AI are vast. By continuously integrating user feedback and enhancing functionality, we can push the boundaries of what can be achieved without traditional coding. This project underscores the potential of Generative AI in democratizing technology, making development accessible to a broader audience, and significantly accelerating the creation process. Thank you for exploring our journey into the world of No-Code AI.