

Abstract

This Project explores the limits of artificial intelligence (AI) in web development, focusing on the year 2023. The study is conducted by AI Limits Team 1 from Kennesaw State University. The primary objective of the project is to harness the potential of ChatGPT 3.5, an advanced AI model, to create a fully functional Auction House Website. The achievements of the project include innovative web development, AI-generated content, and successful integration of AI into both frontend and backend aspects of web development. The research findings offer valuable insights into ChatGPT's proficiency in generating web application code and emphasize the importance of validation and testing in AI-driven development. Ethical considerations in AI-generated content are highlighted as well.

Project Findings

Our project findings offer valuable insights into the application of ChatGPT 3.5 in web development:

- ChatGPT 3.5 demonstrates remarkable proficiency in generating code for web applications, making it a viable tool for developers.
- While AI-driven development offers efficiency and speed, it also requires careful validation and testing to ensure functionality and security.
- Ethical considerations, such as bias and fairness in AI-generated content, remain essential in AI-driven web development.

Limits & Insights

Limits:

- ChatGPT was unable to understand certain prompts.
- ChatGPT was unable to troubleshoot certain problems.
- ChatGPT is not effective at webpage styling.
- ChatGPT 3.5's training data is limited and has a knowledge cut-off date in January, 2022.

Insights:

- ChatGPT is an excellent tool for generating coding solutions and performing basic troubleshooting.
- ChatGPT tends to produce better results with smaller, more specific prompts than large, complex prompts.
- ChatGPT cannot replace a human programmer.

Achievements

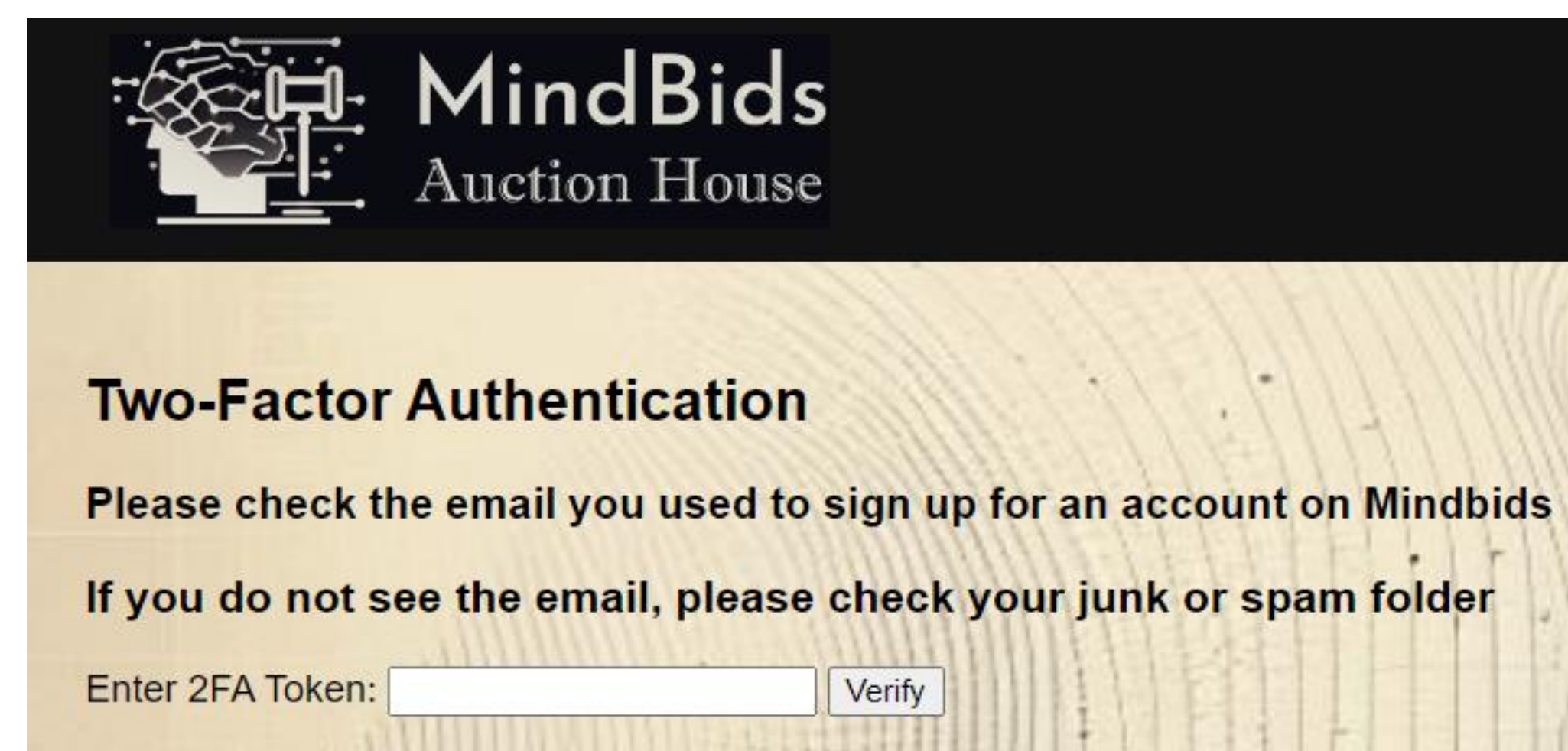
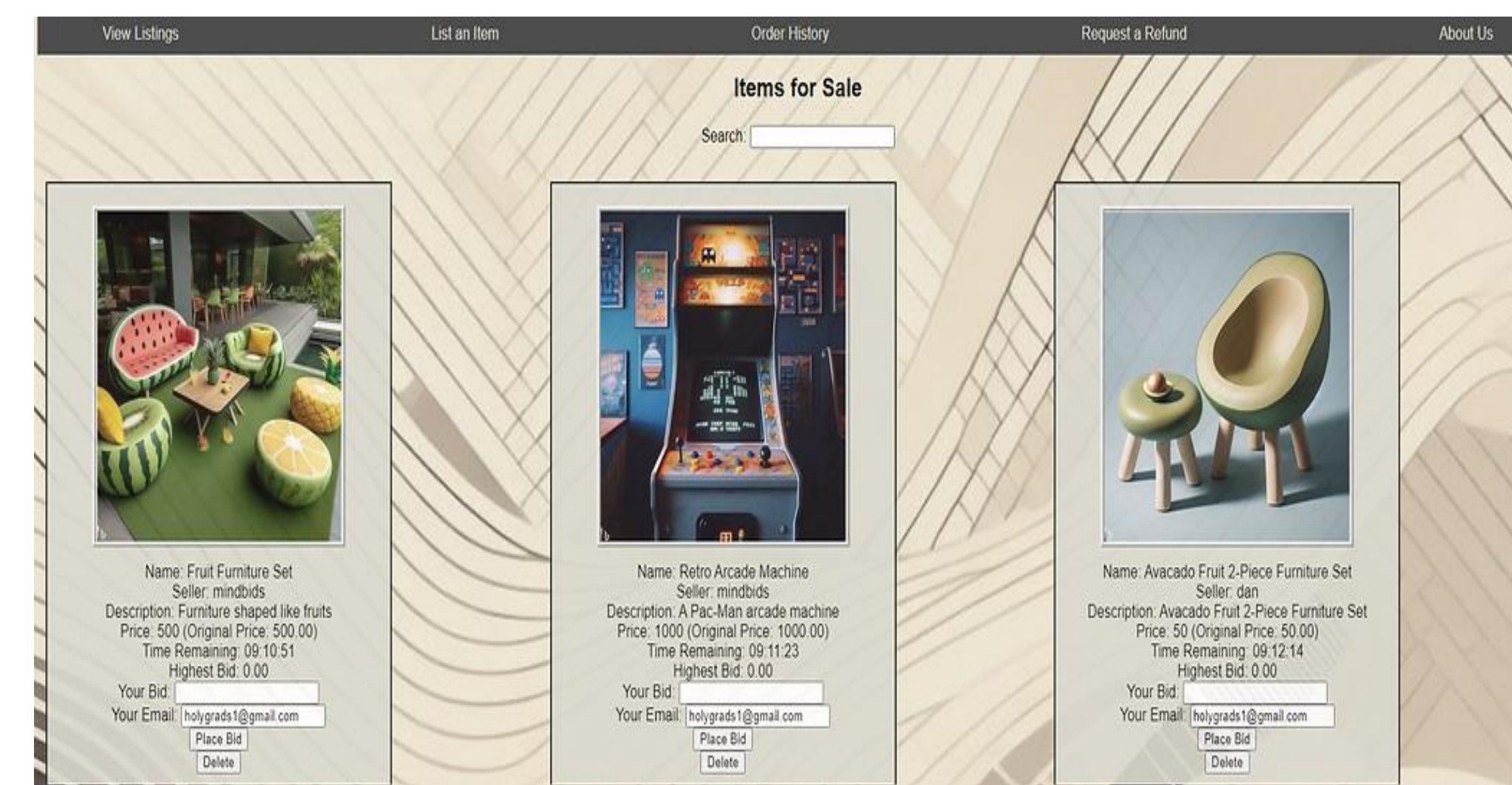
Our project has yielded significant achievements, providing valuable insights into AI's role in web development:

- **Innovative Web Development:** Successful creation of an Auction House Website using entirely AI-generated code.
- **AI-Generated Content:** Content generation by ChatGPT, emphasizing its capabilities in content creation.
- **Frontend and Backend Integration:** Seamless integration of AI into both frontend and backend development.
- **Research and Documentation:** Extensive research that has added to the body of knowledge on AI-driven web development.

Results

Home Page

- View Listing
- List an Item
- Order History
- Refund
- About

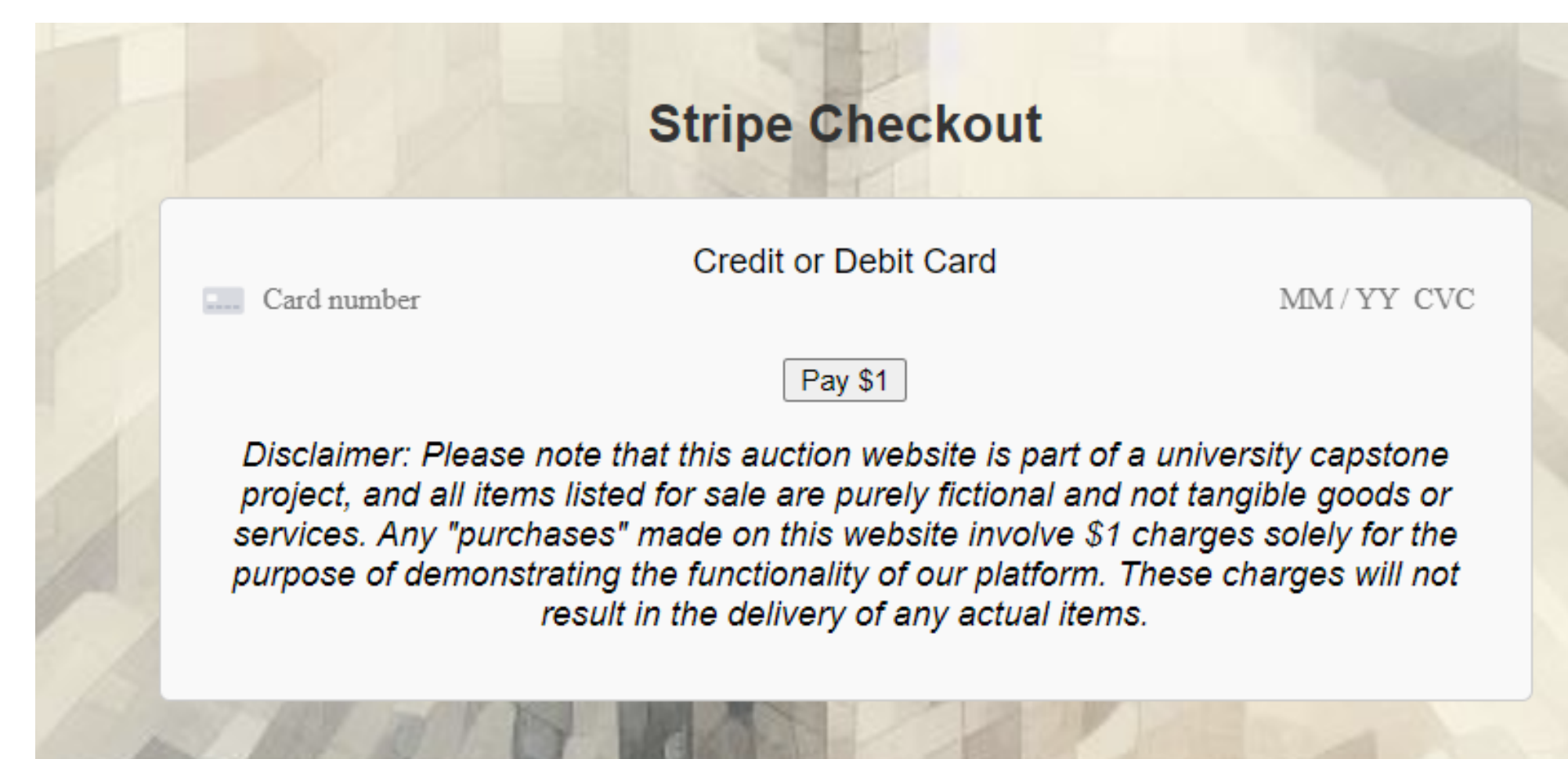


Security

- 2FA
- ReCaptcha

Payment Processing

- Stripe



Notifications

- Item Deleted
- Bid Accepted
- Bid Rejected
- Winner

Technologies or Tools Used



Conclusion

The "Creating an Auction House Website Entirely from ChatGPT 3.5 Code and Solutions" project marks a significant milestone in AI-driven web development. Through innovative experimentation and collaboration, our team has showcased the transformative potential of AI in constructing web applications. Our AI-generated Auction House Website stands as a testament to the evolving landscape of web development.

Links

1. Auction Website: <https://mindbids.allevista.org/>
2. Group Project Information <https://limitofai.wixsite.com/research>

Acknowledgments

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