Industry Project Report on Web Page Development Using React Js

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Submitted to
Faculty of Engineering and Technology
Institute of Computer Technology
Ganpat University

Year: 2024

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CERTIFICATE

This is to certify that the Industry Project work entitled “Web Page Development Using React Js ” by Dev Parmar (21162122003), Manushi Gajjar (20162101004), Tanishk Patel (20162121020), Nachiket khamar(21162102004) of Ganpat University, towards the partial fulfillment of requirements of the degree of Bachelor of Technology – Computer Science and Engineering, carried out by them in the CSE(CBA/BDA) Department. The results/findings contained in this Project have not been submitted in part or full to any other University / Institute for award of any other Degree/Diploma.

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ACKNOWLEDGEMENT

The Industry project is a golden opportunity for learning and self-development. I consider myself very lucky and honored to have so many wonderful people lead me through in completion of this project. First and foremost, I would like to thank Dr. Rohit Patel, Principal, ICT, and Prof. Dharmesh Darji , Head, ICT who gave us an opportunity to undertake this project. The CSE department monitored our progress and arranged all facilities to make life easier. We choose this moment to acknowledge their contribution gratefully.

MANUSHI GAJJAR (Enrollment No: 20162101004)

ABSTRACT

This project explores frontend development using React JS, aiming to create a dynamic and user-friendly web application. Leveraging React's component-based architecture and virtual DOM, the project focuses on building reusable UI components, efficient state management, and seamless integration with external APIs. Through comprehensive testing and optimization, the goal is to deliver a responsive and performant application. Collaboration with backend developers ensures smooth data flow and integration. The project's outcome is a feature-rich frontend application that meets project requirements and user expectations, contributing to a positive user experience. Feedback and iteration drive continuous improvement to align with evolving needs and standards.

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CHAPTER: 1 INTRODUCTION

React JS has transformed the landscape of frontend web development, offering a powerful toolkit for creating dynamic and interactive user interfaces. Imagine you're building a social media platform where users can share photos and engage with each other. React JS allows you to develop modular UI components, such as a photo feed, comments section, and user profiles. Each component encapsulates its logic and presentation, promoting code reusability and maintainability.

For instance, the photo feed component can display a grid of images fetched from a server using React's declarative approach to data binding. The comments section component enables users to interact with posts, with real-time updates facilitated by React's virtual DOM and efficient state management. Additionally, user profiles can be dynamically rendered based on user data retrieved from a database, providing personalized experiences.

By leveraging React JS, you can create a seamless and responsive user experience, enhancing engagement and satisfaction. Its flexibility and scalability empower developers to iterate rapidly and adapt to evolving requirements, ensuring the success of your social media platform in the competitive digital landscape.

CHAPTER: 2 PROJECT SCOPE

The project scope entails the development of a frontend application using React JS, encompassing various essential aspects of modern web development. It involves designing and implementing an intuitive and visually appealing user interface, comprising reusable UI components like navigation bars, forms, and modals. The application's functionality will be enhanced through efficient state management and seamless integration with external APIs to fetch and display dynamic data. Additionally, client-side routing will enable smooth navigation between different views or pages. Emphasis will be placed on ensuring responsiveness across devices, comprehensive testing for functionality and reliability, and proper documentation. Collaboration with backend developers and stakeholders will ensure the successful integration of the frontend with the overall project objectives.

CHAPTER: 3 SOFTWARE AND HARDWARE REQUIREMENTS

Minimum Hardware Requirements

Processor	2.0 GHz
RAM	4 GB
HDD	512 GB

3.1 Minimum Hardware Requirements

Minimum Software Requirements

Operating System	Any operating system which can support an internet browser.
Programming language	CSS, HTML, React Js
Other tools & technologies	Internet browser

3.2 Minimum Software Requirements

CHAPTER: 4 PROJECT PLAN

- Requirement Gathering and Analysis.
- Design Phase.
- Development.
- Testing.
- Optimization and Performance Tuning.
- Documentation.
- Deployment.
- Post-Deployment Support and Maintenance.

CHAPTER: 5 IMPLEMENTATION DETAILS

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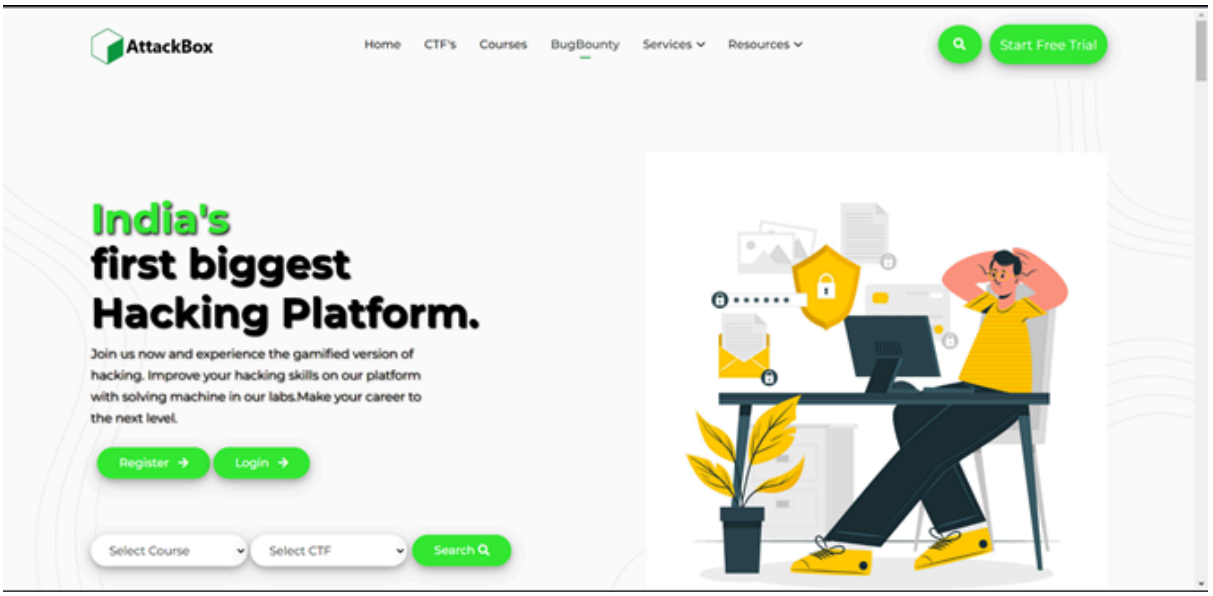

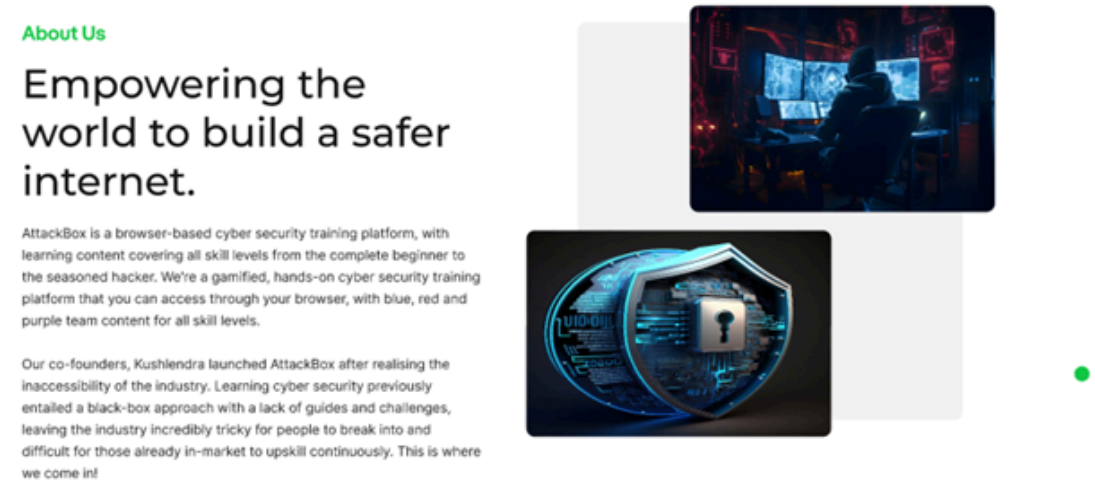

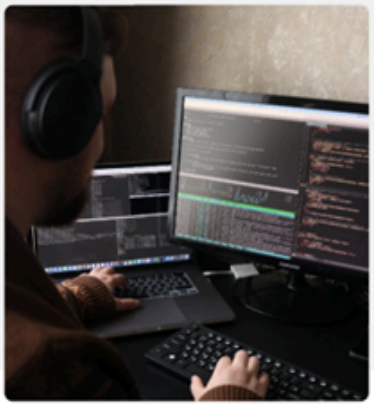

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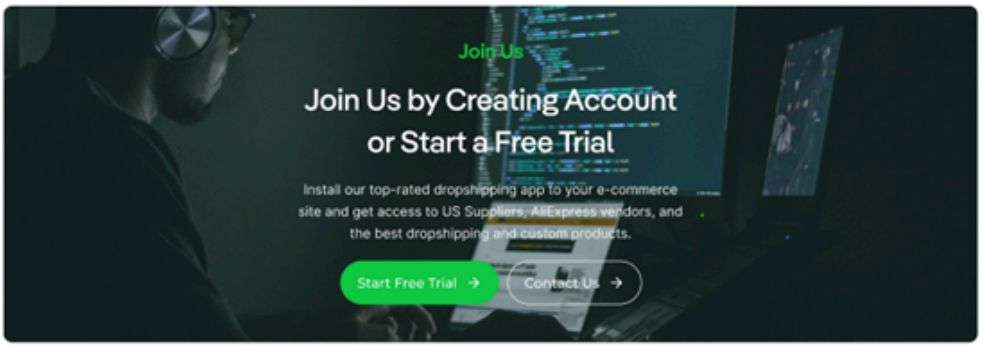

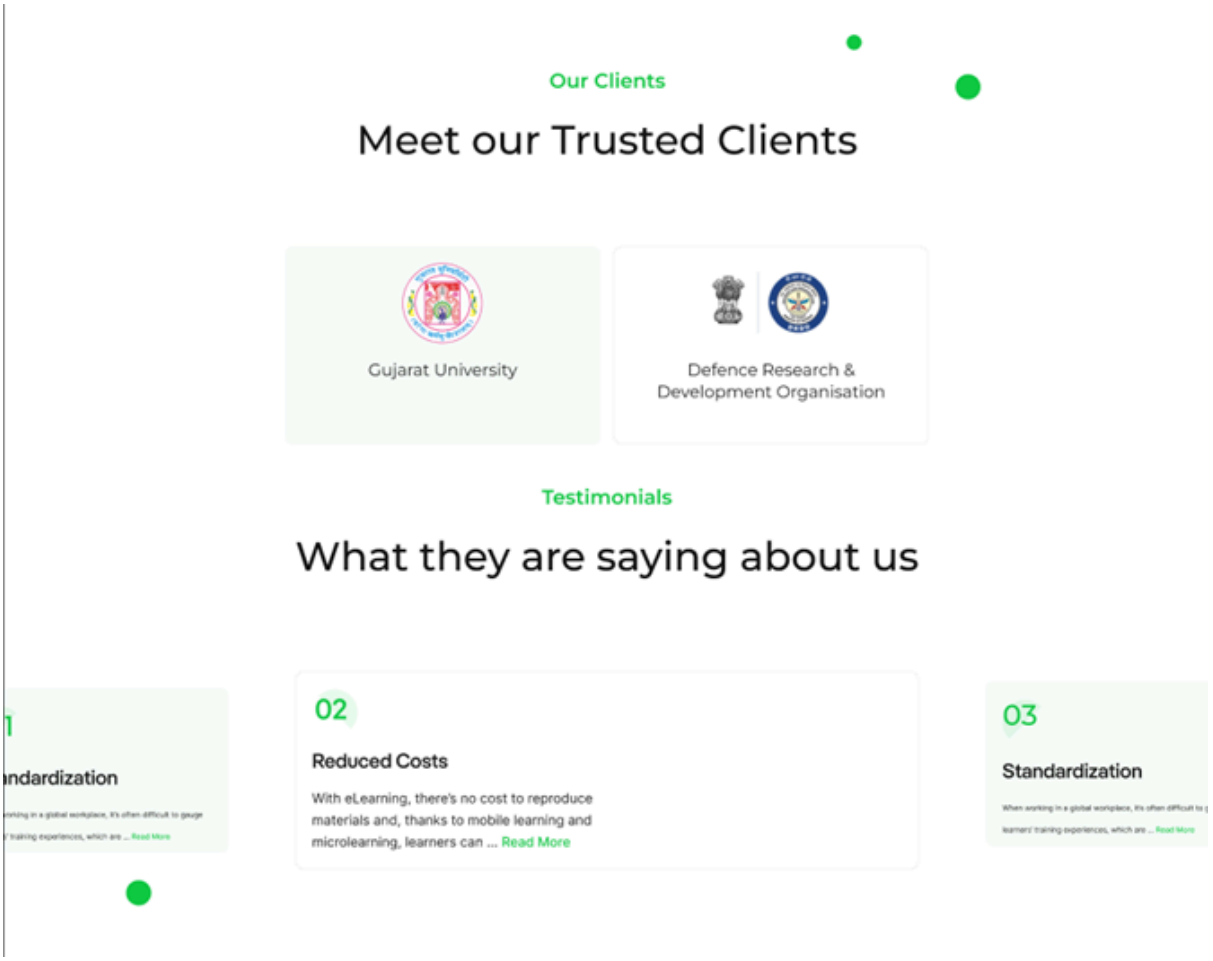
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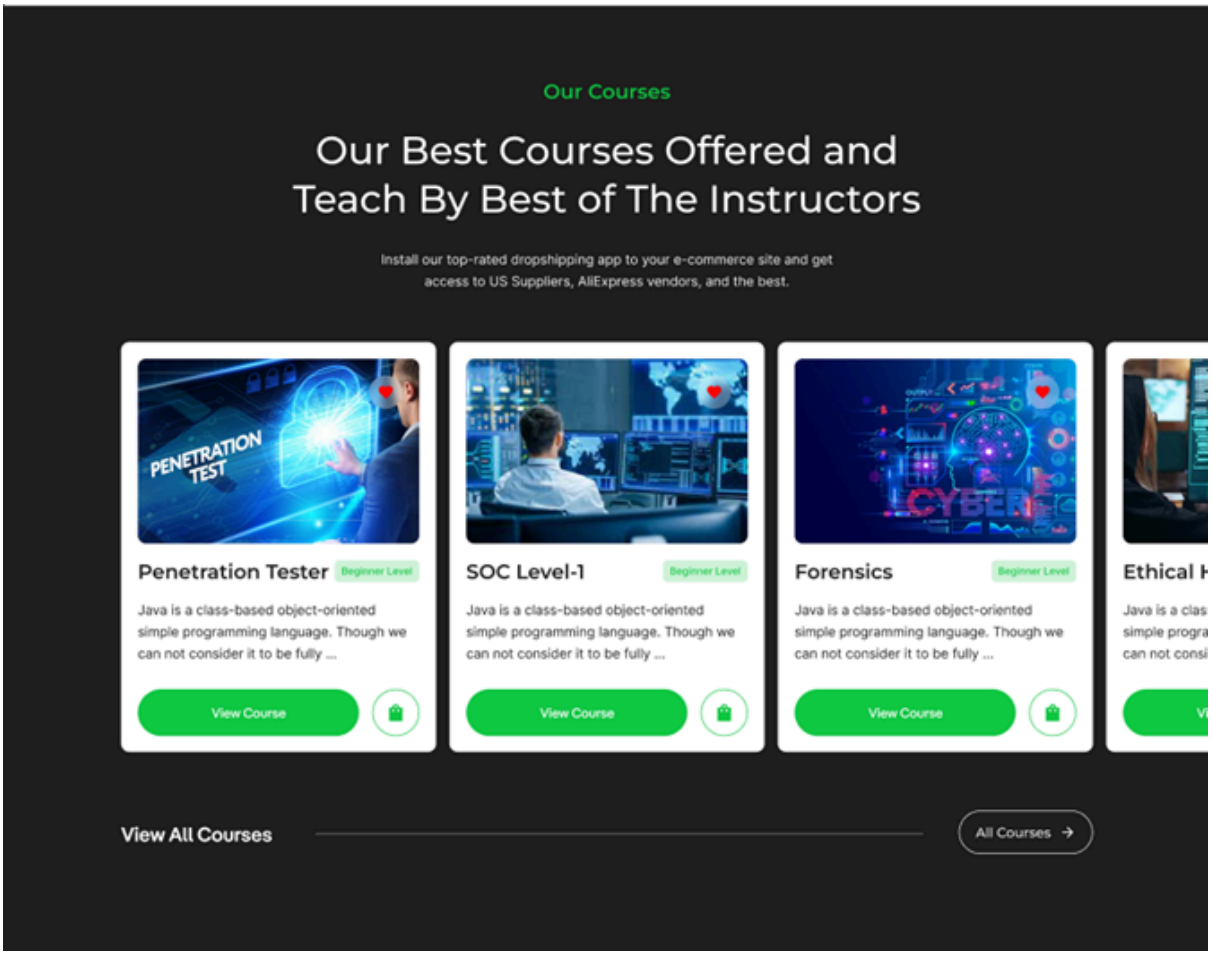
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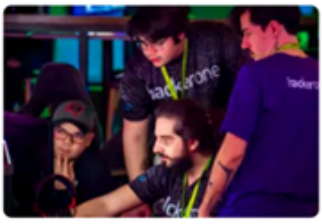

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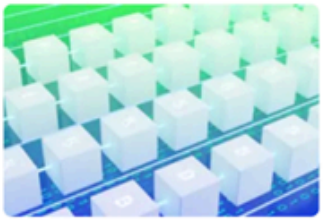

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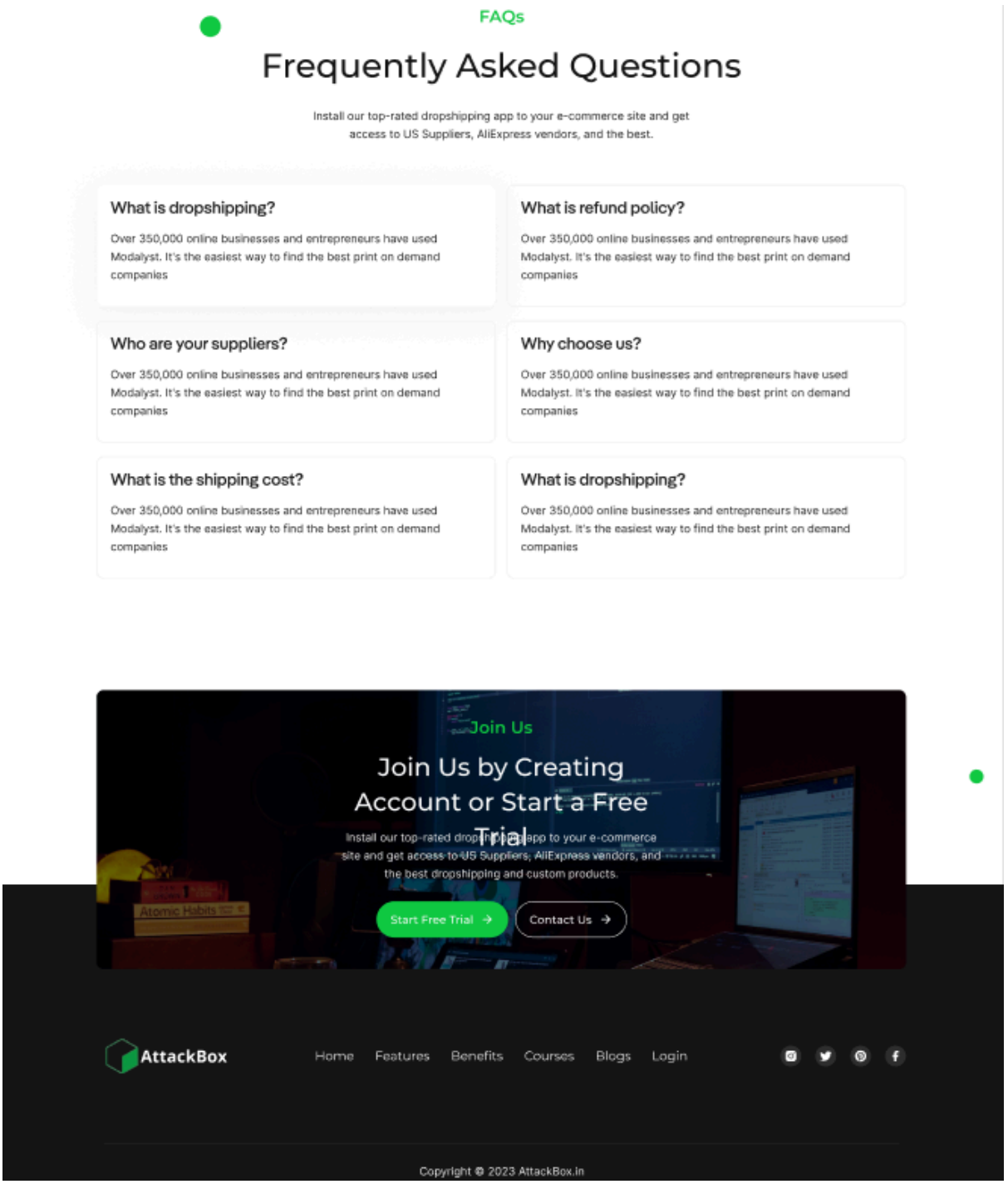

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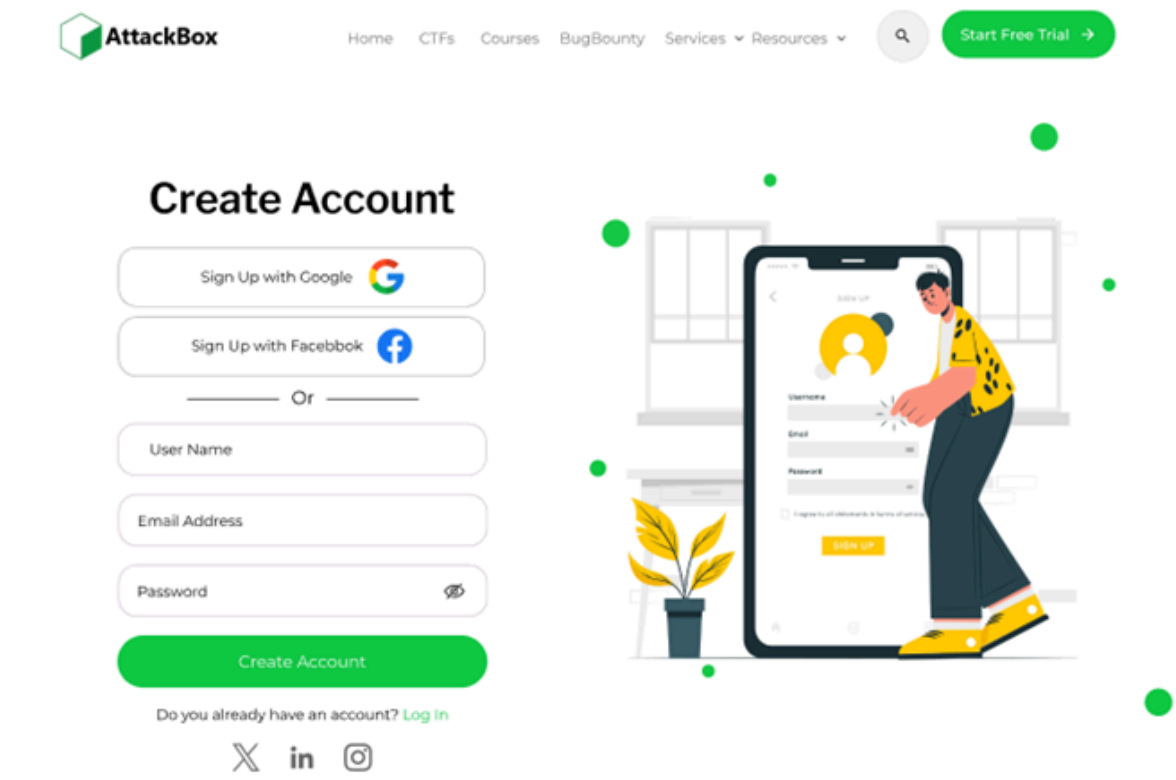
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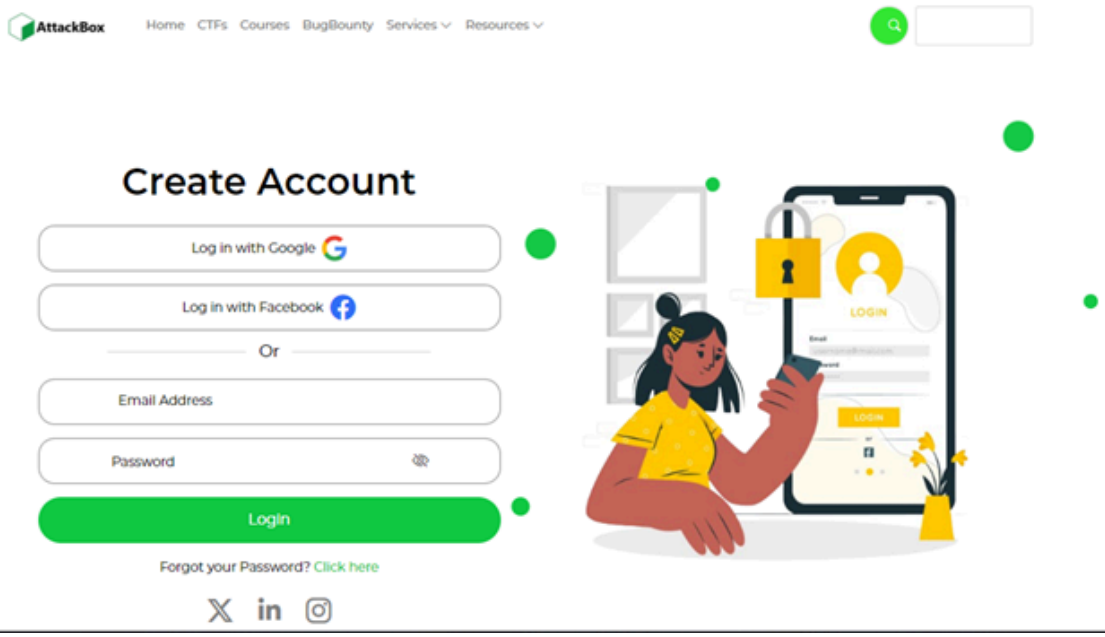
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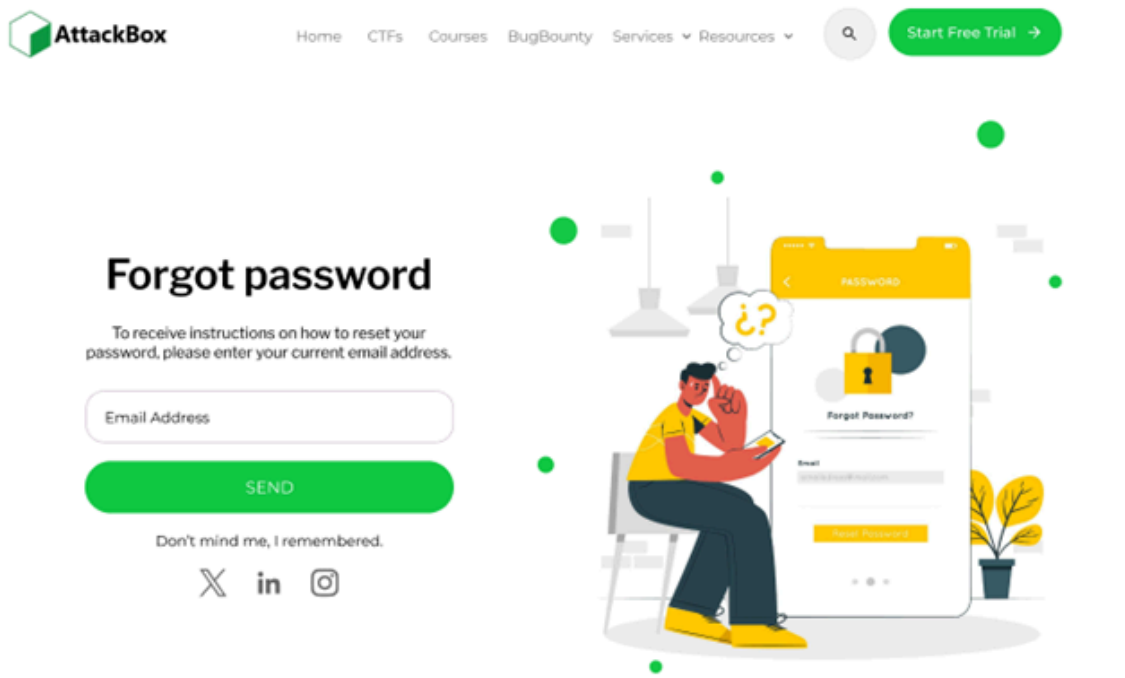
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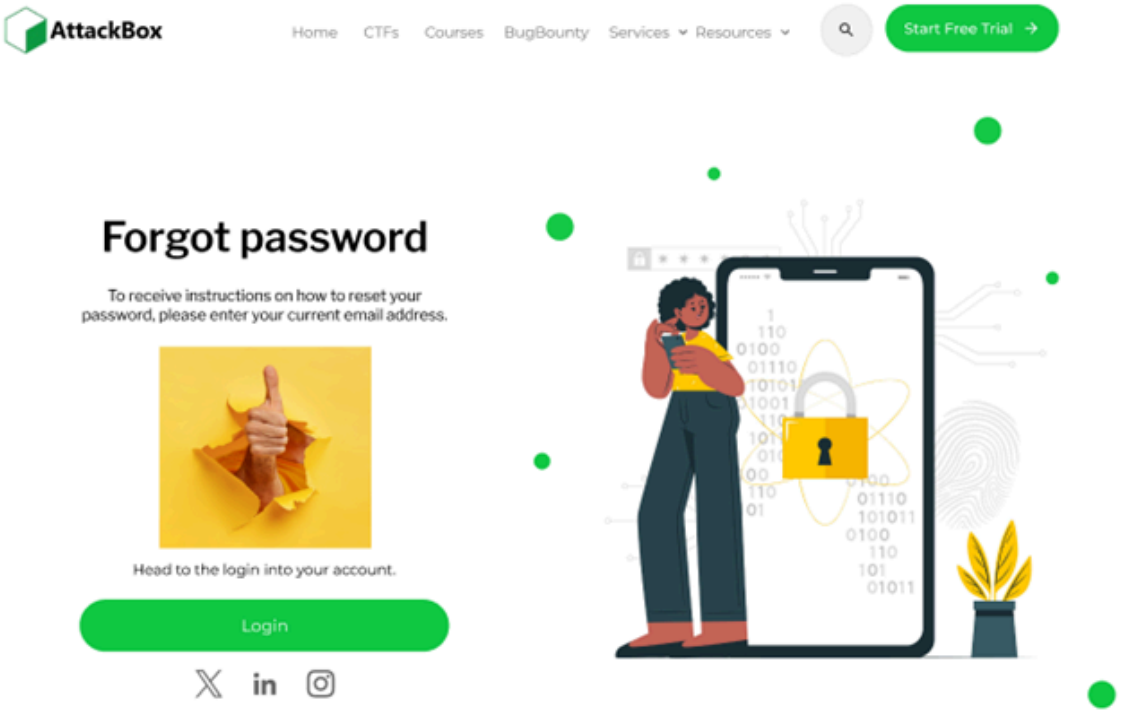
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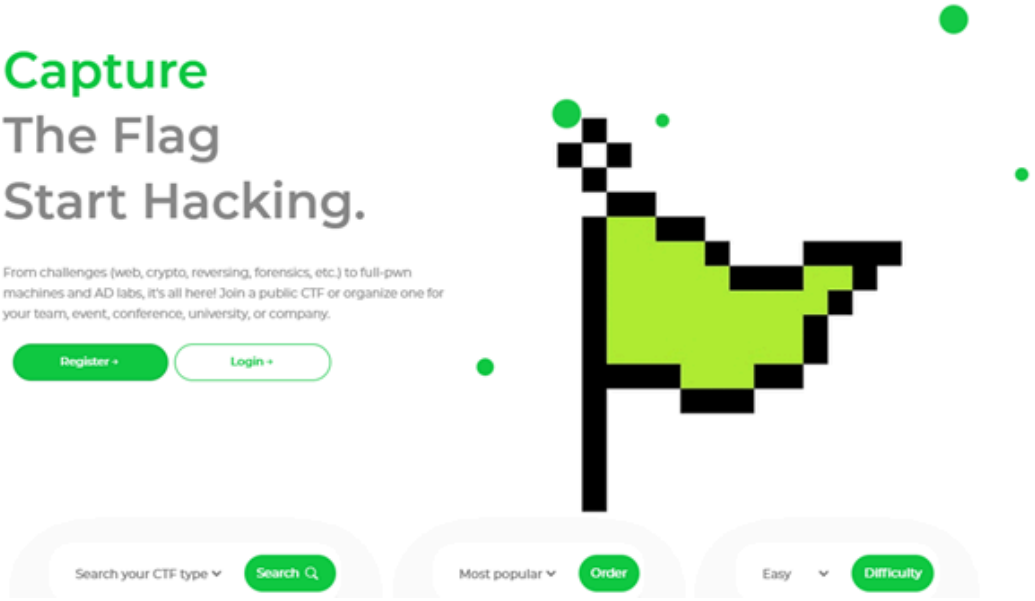
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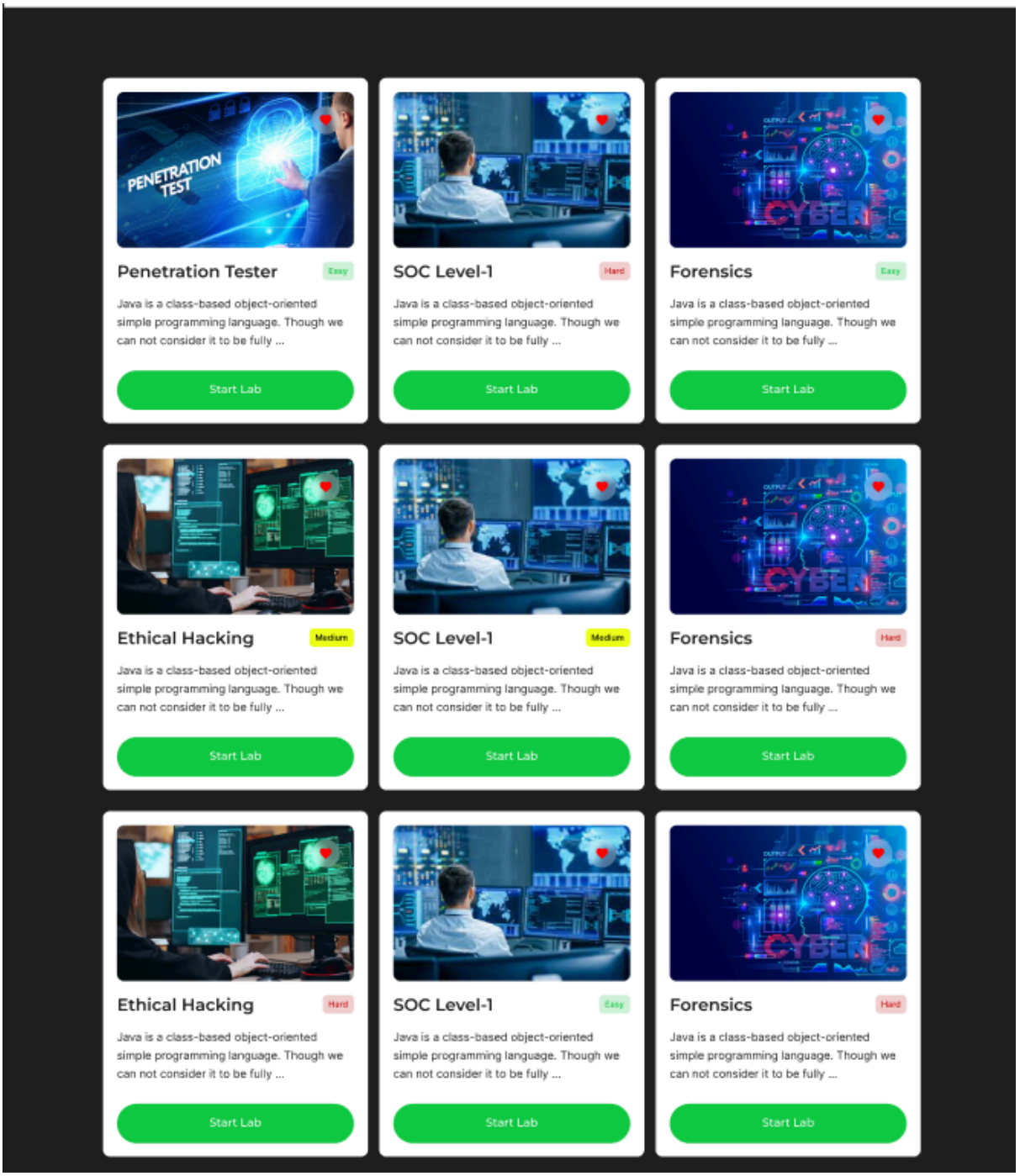
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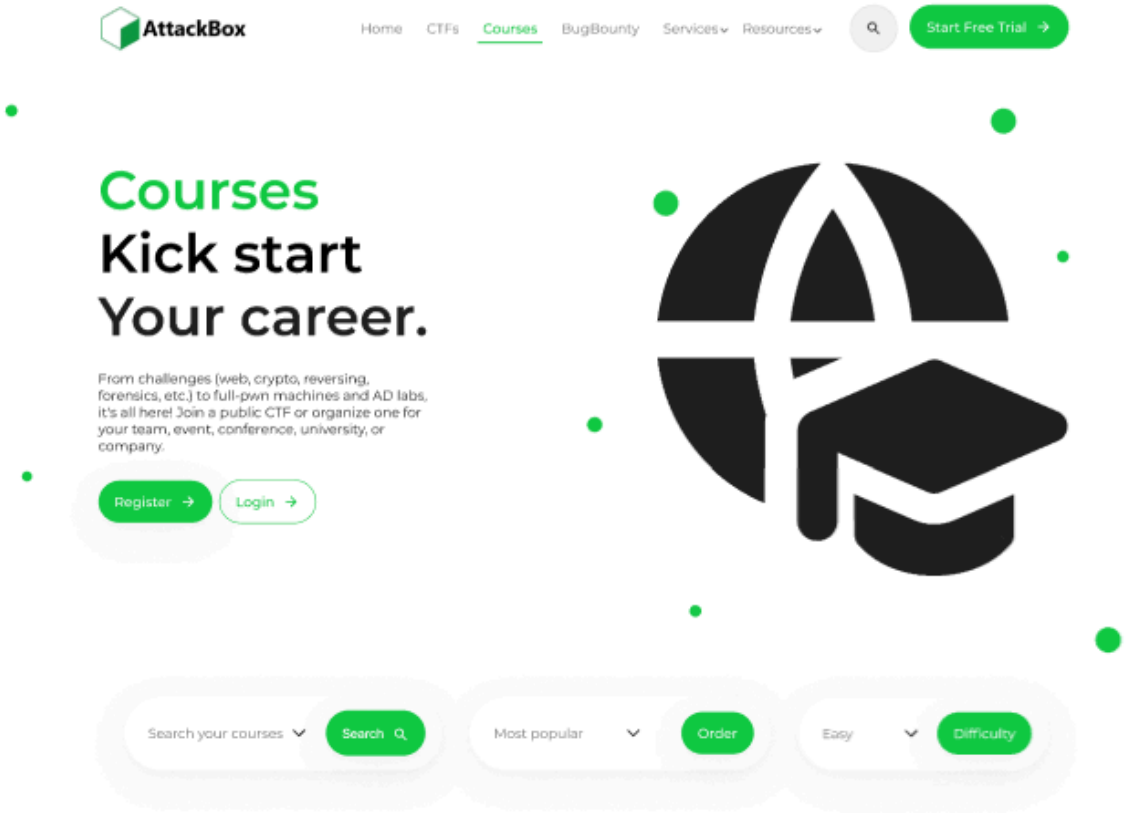
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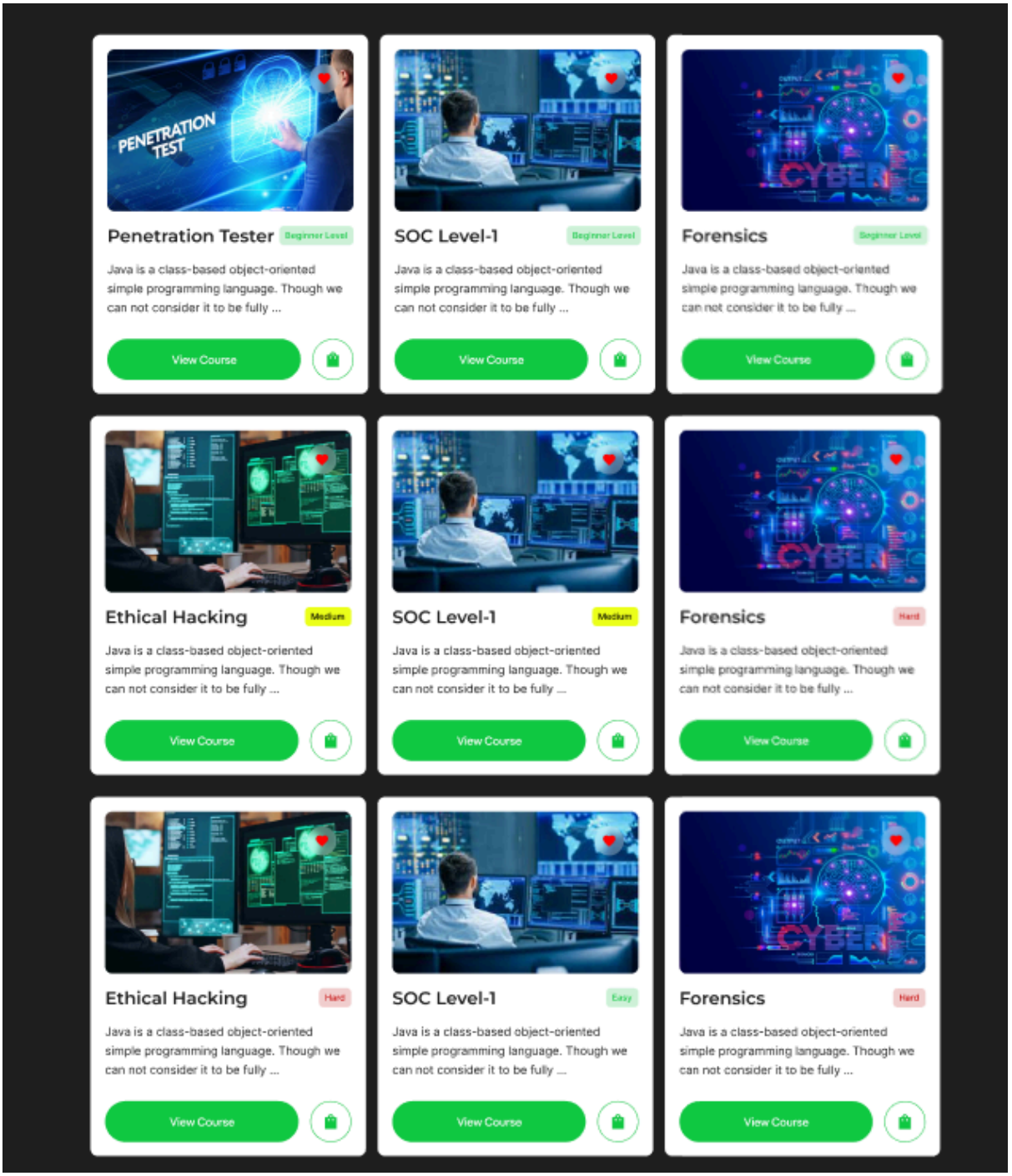
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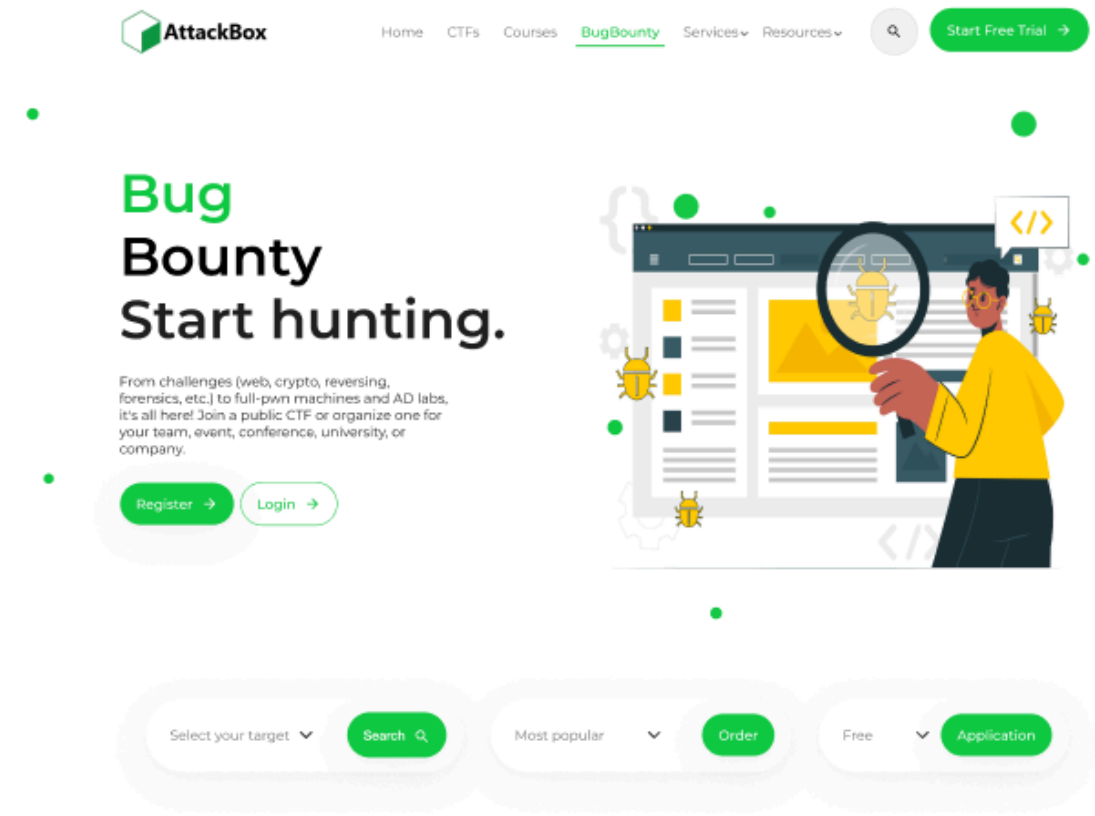
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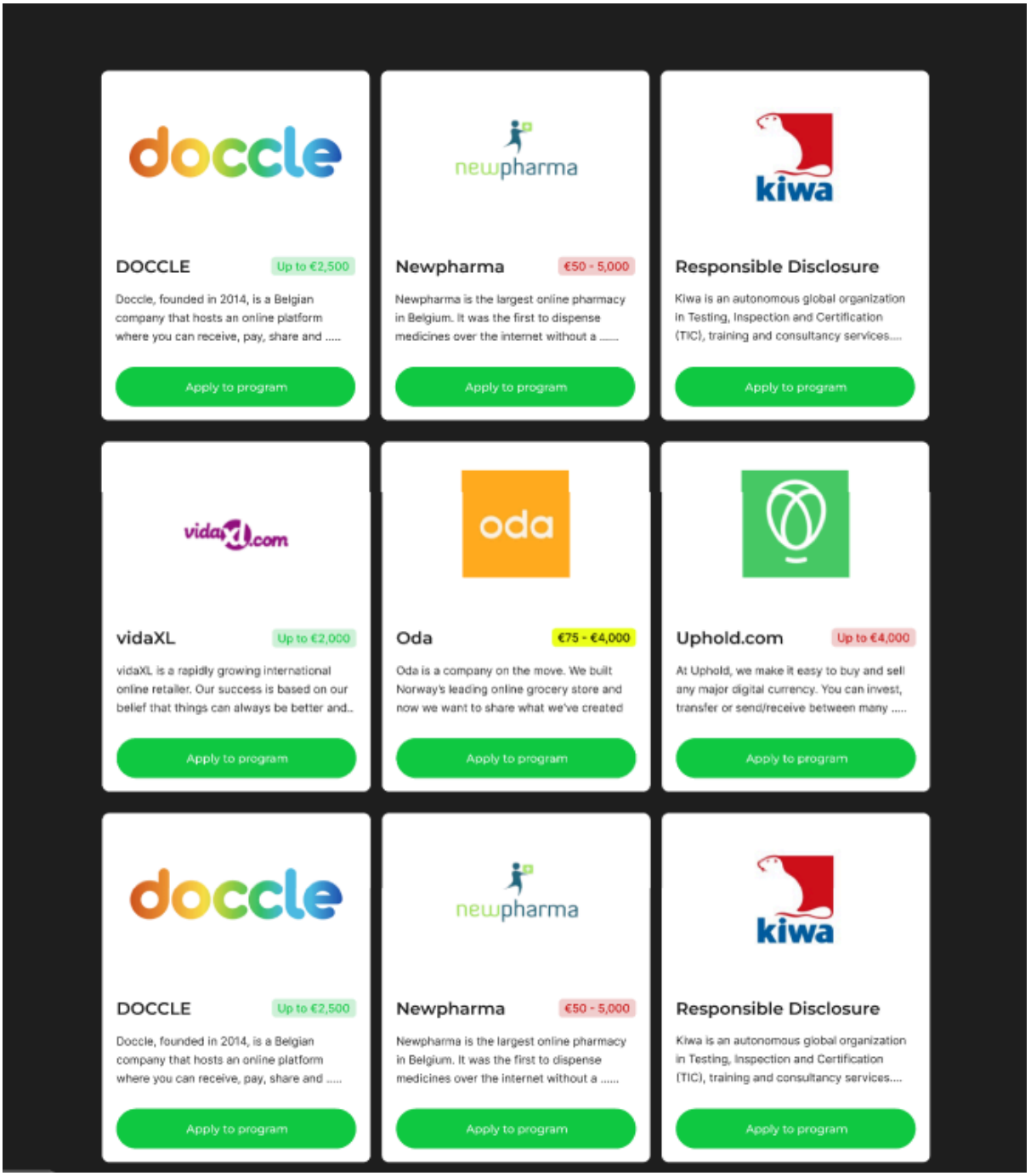

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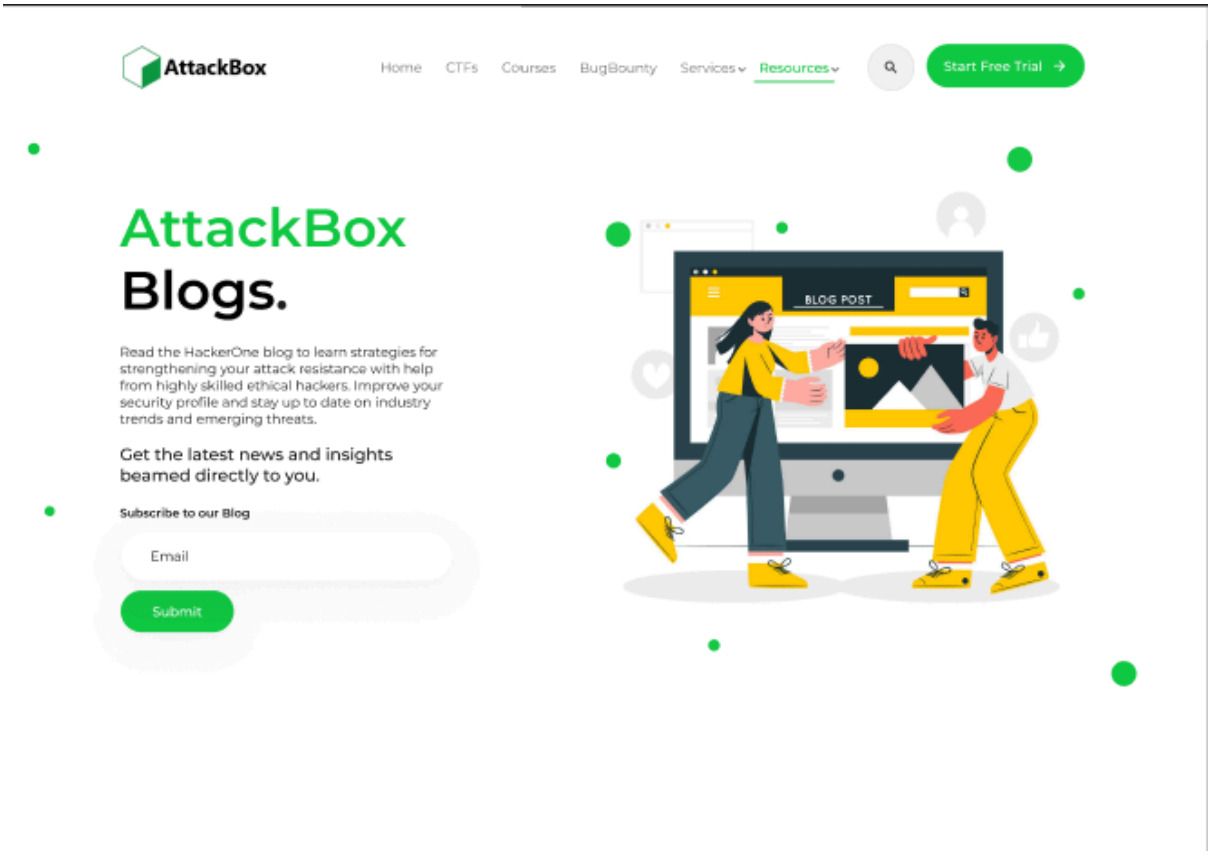
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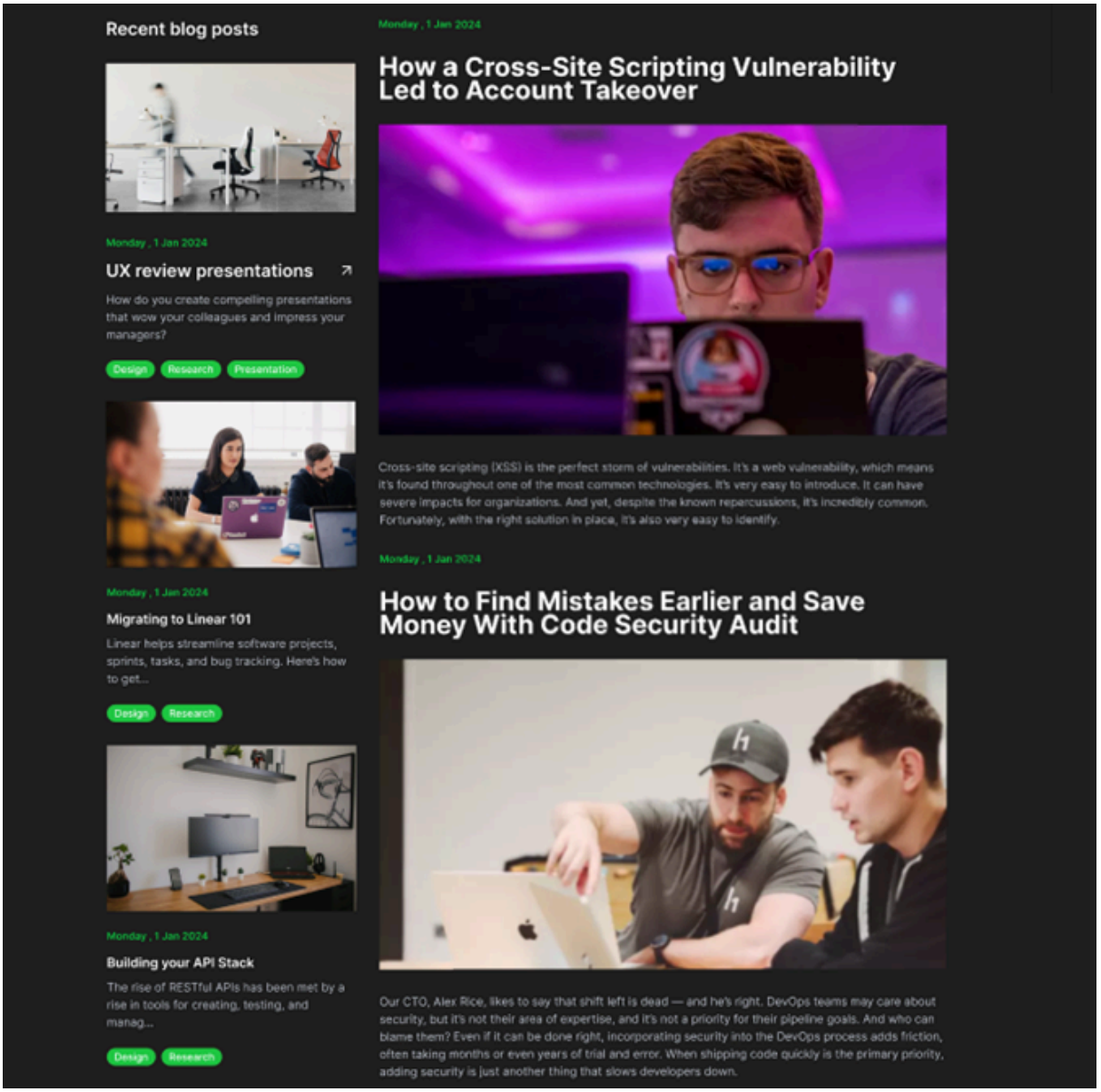

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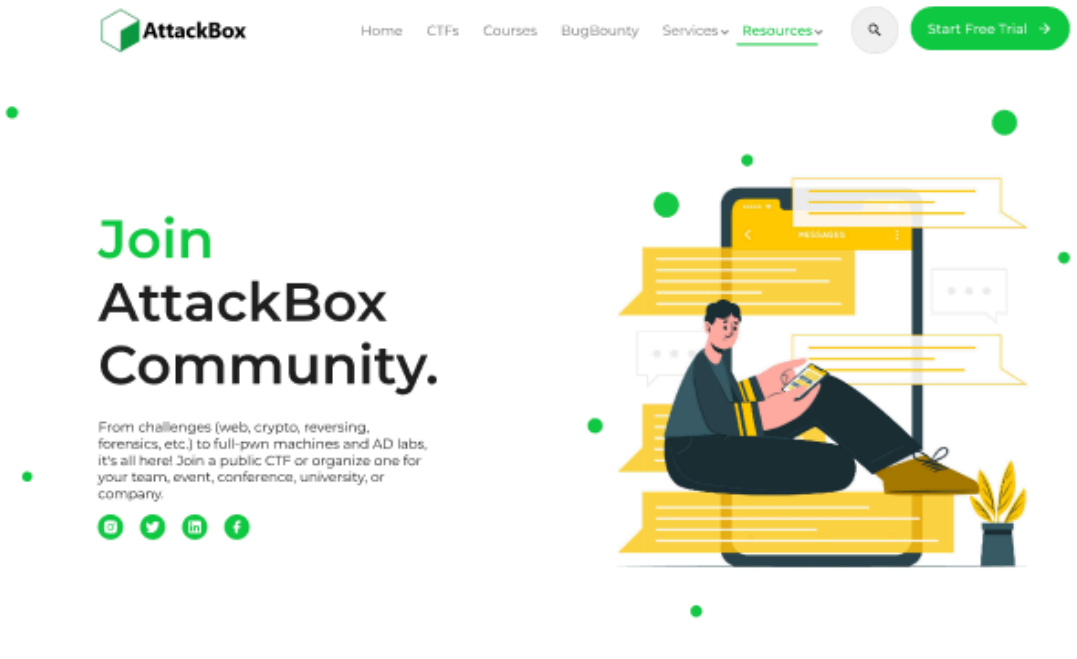
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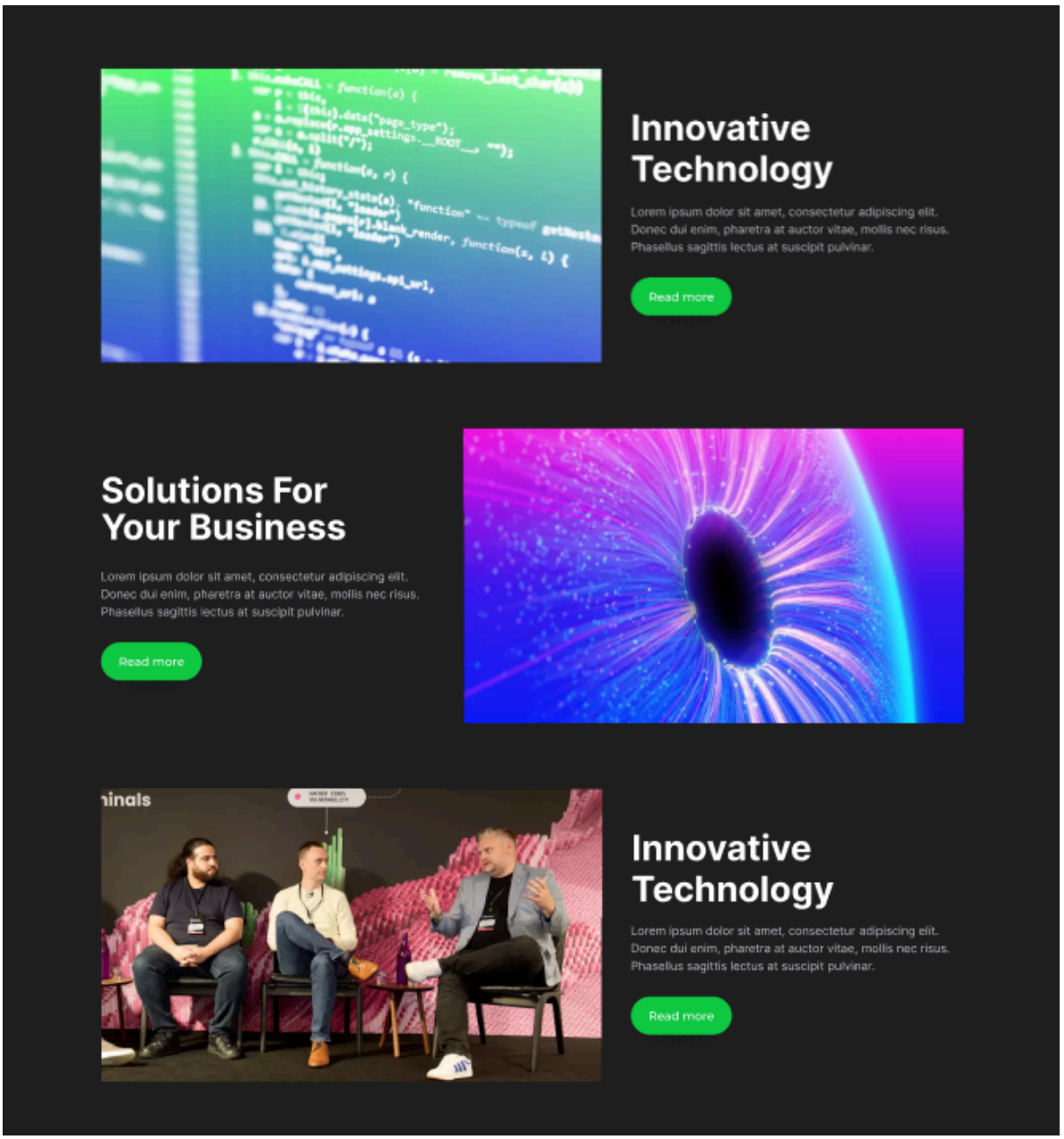

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- Live Page Hosting.
- Make it responsive.
- Dashboard development.
- Further Development of the remaining pages

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