

CAPSTONE PART 2

REPORT



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Report on Capstone Assignment: Mockup and Color Palette Selection for QuizAPI Website

1. Introduction

For my Capstone project, I have chosen to create a responsive web application that integrates the QuizAPI from quizapi.io. The focus of this assignment is to develop a mockup that demonstrates key UX elements, user interactions, and aesthetic design choices. This report explains the reasoning behind selecting this particular project, the design considerations, and the specific color palette used for the mockup.

2. Reasons for Choosing the QuizAPI Website

a. Technical Reasons

1. API Integration Experience: Working with QuizAPI allows me to deepen my understanding of API integration, a critical aspect of modern web development. This project offers hands-on experience in using real-world data to create dynamic and interactive user interfaces.
2. Responsive Web Design: The mockup must be fully responsive, adapting to multiple screen sizes. This pushes me to expand my knowledge of responsive design principles, CSS frameworks, and media queries, ensuring that the application is user-friendly on both desktop and mobile devices.
3. Interactive UI Development: Quizzes are inherently interactive, and developing a quiz-based web application offers the perfect opportunity to focus on user engagement and intuitive navigation. The application design has to balance interactivity with simplicity, which enhances my skills in creating user-centered interfaces.
4. Challenge of Diverse User Actions: The project requires handling different user actions like quiz selection, answering questions, tracking progress, and reviewing results. Developing a mockup for such features is a valuable exercise in UX design, enabling me to anticipate user behavior and optimize functionality.
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b. Personal Reasons

1. Passion for Educational Tools: I have always been interested in the role of technology in education. Creating a quiz-based application allows me to contribute to the growing space of online learning tools. The QuizAPI serves as a foundation for building a product that could be useful for students and educators alike.
2. Strengthening Design Skills: Working on the design of this project aligns with my personal goal of becoming more proficient in UX/UI design. By creating the mockup, I am enhancing my ability to translate user needs into visual elements that are both appealing and functional.
3. Focus on Accessibility: One of my motivations is to create a design that is accessible to users of different abilities. The design choices—color, typography, layout—are meant to ensure that the application is usable for a wide range of individuals, reflecting my commitment to inclusive design.

Web Development III

3. Color Palette Selection

The chosen color palette includes the following hex codes:

- #EFBC75 (Warm Yellow)
- #1A4A5A (Deep Teal)
- #148D8D (Bright Teal)
- #FFFFFF (White)
- #5FBD00 (Vibrant Green)
- #C1E1A7 (Light Green)
- #BB9200 (Golden Brown)
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a. Technical UX Reasons for Color Selection

1. Contrast and Readability: A primary consideration was ensuring strong contrast between elements. For example, the use of #1A4A5A as a background or accent color pairs well with #EFBC75 or #FFFFFF to provide optimal text legibility, especially for users with visual impairments.
2. Consistency and Branding: The color palette is designed to be cohesive, creating a consistent visual experience throughout the app. The combination of teals (#1A4A5A and #148D8D) evokes a sense of reliability and calm, while the greens (#5FBD00 and #C1E1A7) add an element of growth and positivity, appropriate for an educational tool.
3. Highlighting Interactive Elements: #5FBD00 and #BB9200 are vibrant, eye-catching colors that can be used to highlight key actions like buttons, quiz answers, or progress bars. These colors draw attention to interactive elements, making the interface more intuitive for users.
4. Accessibility Standards: The color choices have been made with WCAG (Web Content Accessibility Guidelines) in mind to ensure that the color contrast meets the necessary standards for accessibility, enhancing the overall usability for all users.
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b. Personal Aesthetic Reasons for Color Selection

1. Invoking a Sense of Energy and Engagement: #EFBC75 (warm yellow) and #5FBD00 (vibrant green) create an energetic and engaging atmosphere, which is essential for a quiz-based educational platform. These colors are inviting and stimulate user engagement, encouraging them to stay longer on the platform.
2. Balancing Professionalism and Playfulness: The deep and bright teals (#1A4A5A and #148D8D) reflect professionalism and trust, while the warmer tones like #EFBC75 and #BB9200 introduce a playful and creative touch. This balance mirrors my personal design philosophy of combining efficiency with creativity in digital experiences.
3. Personal Preference and Expression: On a more personal level, the chosen palette reflects my own aesthetic preferences—earthy, yet vibrant tones that communicate optimism and growth. This allows me to bring a bit of my personality into the project, making the design process more enjoyable and authentic.

4. Conclusion

In conclusion, the QuizAPI web application was selected for its potential to enhance both my technical skills in API integration and responsive web design, and to foster my personal interests in educational technology and UX design. The carefully curated color palette was chosen for its technical advantages in improving accessibility, user interaction, and overall readability, as well as its aesthetic qualities that evoke a positive and engaging user experience.

This project will serve as a comprehensive showcase of my ability to design user-centered interfaces while integrating modern web development techniques, ultimately contributing to my growth as a web designer and developer.

THANK YOU

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