

Title: Enhancing Mathematical Problem Solving with Calculadora Alicia: A User-Centered UI/UX Approach

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Abstract

In the digital era, the integration of intuitive online tools has significantly transformed how students and educators approach mathematics. Calculadora Alicia is an innovative, web-based platform designed to simplify complex mathematical calculations through a clean, responsive, and user-focused interface. This short abstract explores the core features, user interface design, and the overall user experience that make Calculadora Alicia a standout tool for learners of all levels.

The platform combines step-by-step problem solving, interactive quizzes, and detailed explanations, enabling users to not only calculate but understand the logic behind each step. The UI/UX design of Calculadora Alicia emphasizes clarity, accessibility, and ease of navigation. The minimalistic layout ensures that users are not overwhelmed, while smart UI elements guide users through algebraic equations, geometry problems, and calculus tasks smoothly.

This abstract also discusses how the platform adapts to different devices, making it mobile-friendly and efficient for both classroom and home environments. Feedback loops, visual feedback (like color-coded correctness), and accessible font sizes contribute to an inclusive design that caters to a wide range of learners, including those with learning difficulties.

By focusing on functionality merged with aesthetic appeal, Calculadora Alicia showcases how

thoughtful UI/UX design can bridge gaps in education and empower students globally. Future updates will include multilingual support and personalized learning paths, making the tool even more adaptive to user needs.

Keywords: Calculadora Alicia, math education, UI/UX design, problem solving, responsive interface, digital learning, accessibility, web calculator