

# PHOTO COLOR DETECTOR

## ABSTRACT

The Photo Color Detector is a mobile application that allows users to identify colors from any image by simply tapping on a specific area of the uploaded photo. This micro project aims to provide a straightforward, interactive way for users to detect colors, learn their names, and access their hex codes in real-time. The app achieves this by employing a simple RGB color matching algorithm to compare the tapped pixel's color against a predefined dataset of common colors. Upon detecting the color, the app displays the name and hex code, and an optional history feature allows users to keep track of recently identified colors. Designed for efficiency, the project leverages a minimalistic UI to support fast color detection and intuitive navigation, making it feasible to develop. This project demonstrates the potential for quick, accessible color recognition technology in mobile apps, highlighting the simplicity and effectiveness of basic color matching algorithms in practical applications.

By Kamal Sankar M

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