

## ABSTRACT

### CONTENT BASED IMAGE RETRIEVAL (CBIR) IMPLEMENTATION TO TYPES OF ROSE SEARCHING APPLICATION

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Roses are widely distributed ornamental plants around the world. The diversity of rose species attracts the interest of many people to study and recognize these rose species. However, it is difficult for the general public to differentiate between different types of roses. Currently, the search for rose species is still done manually by comparing rose images with information found in books or other sources. To address this issue, researchers have designed a rose species search application based on image using Content-Based Image Retrieval (CBIR) technology. The researchers implemented the CBIR technique by inputting a query image of a rose into the system. The system analyzes the color features (Color Moment) of the query image and the images in the database. The similarity between the query image and the images in the database is measured using Euclidean Distance calculation. The development method used in this research is Rapid Application Development (RAD). The final outcome of this research is a rose species search application that serves to assist the public in discovering and recognizing various types of roses.

**Keywords:** Content Based Image Retrieval (CBIR), Color Moment, Euclidean Distance

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