**IMAGINO**

TEAM MEMBERS : V.S. RITANYA (22PD38)

VALINCIA JOHN (22PD39)

This project presents a Java-based application designed to capture images from various sources, apply image processing techniques, and seamlessly transmit the processed images via email.

**FEATURES**

**Image Capture:** The application facilitates the real-time capture of images from integrated or external cameras. Utilizing Java libraries such as JavaFX and OpenCV, users can acquire images effortlessly, ensuring a dynamic source of visual data.

**Image Processing**: Once an image is captured, users have the capability to apply a range of image processing techniques. This feature empowers users to manipulate images through resizing, filtering, enhancing, and even custom algorithms, tailoring them to specific needs.

**Email Transmission:** After processing, the application seamlessly integrates with JavaMail to send the processed images via email.

**User Interface:** For enhanced usability, the project offers an optional graphical user interface (GUI). The intuitive interface allows users to initiate image capture, configure image processing settings, and trigger email transmissions with ease.

**SYSTEM SPECIFICATION:**

Hardware Requirements:

* Processor: Intel Core i5
* Hard Disk : 512 GB
* Ram : 8GB

Software Requirements:

* OS: Windows 10
* IDE : Eclipse / IntelliJ IDEA
* OpenCV – for capturing image
* JavaFX – for GUI interface
* JavaMail – for sending email

**CONCLUSION:**

By combining image capture, processing, and email functionalities within a Java-based application, this project addresses the growing demand for streamlined image manipulation and dissemination.