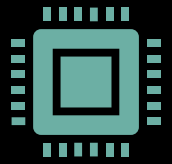
CBMRS

IN JAVA

Introduction

Multimedia Retrieval is one of the most important and fastest growing research areas in the field of Multimedia technology.



The large and growing amount of digital data, and the development of the Internet highlight the need to develop sophisticated access methods that provide more than just simple text-based queries.

Many programs have been developed with complex mathematics algorithms to allow the transformation of image or video data in a way that enhances searching accuracy. However it becomes difficult when dealing with large sets of multimedia data.


development

Step 1: choosing the programming language

Our design was based making the best design in terms of memory efficiency, robustness and responsiveness so we choose java as programming language for the project.

Java vs Python

JAVA	PYTHON
statically typed and compiled language	dynamically typed and interpreted language.
Less memory usage	More memory usage
Faster	Slower
harder	easier

Step 2: database Design

We understand the importance of the database Desgin in this project so we made very efficient database design to increase the responsiveness of the application and give the user better impression

Step 3: Algortihms

CBIR

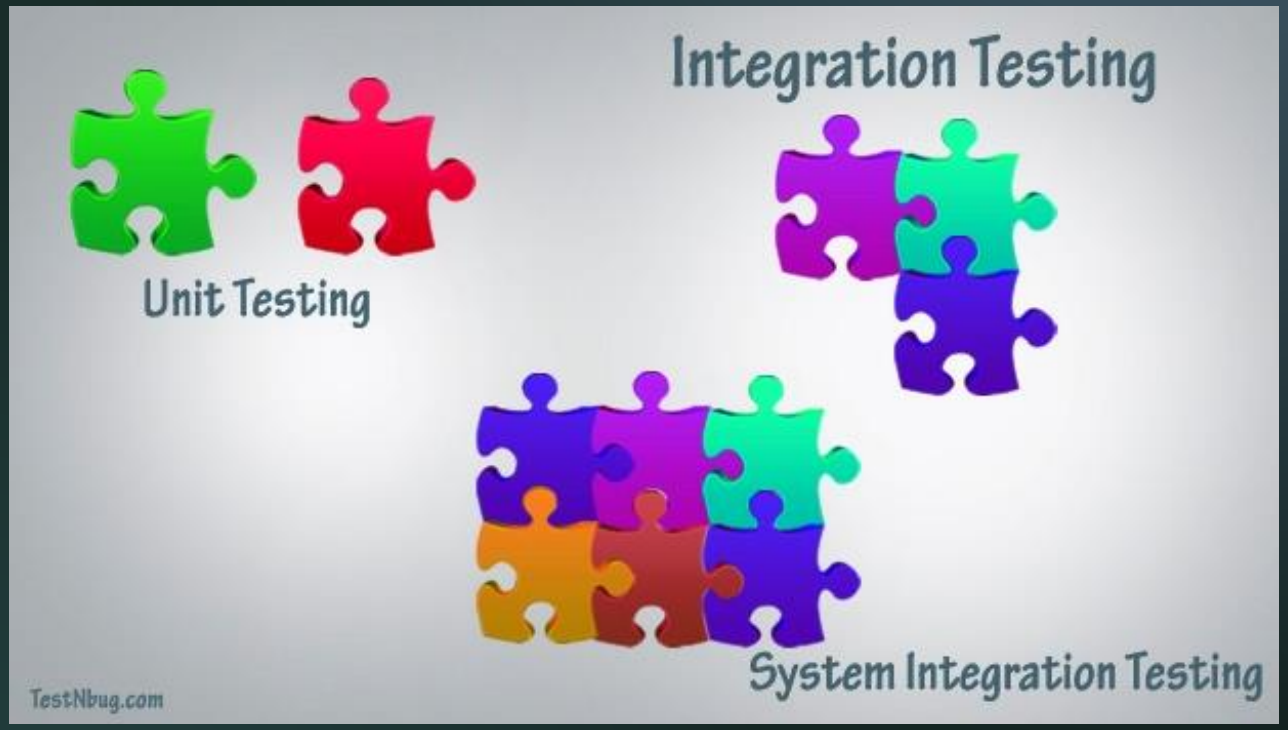
- Mean Color
- Histogram
- Color Layout

CBVR

- NAIVE VIDEO SIMILARITY

Step 4: GUI Design

WE USED JAVAFX TO DESGIN OUR GUI
TO BE USER FRIENDLY APPLICATION



Step 5: Testing

We tested the project to meet the desired quality, the types of testing we made are unit testing, integration testing and system testing

Step 6: Error handling

We handled all user error that may pop up while using the application in order to reach the highest quality of the product .

Thank you