A

PROJECT REPORT

ON

"Image Editor Desktop Application."

Submitted to

"PUNYASHLOK AHILYDEVI HOLKAR", SOLAPUR.

For the partial fulfilment of the requirement for the award

BACHELOR OF COMPUTER SCIENCE

(B.sc [ECS:-III])

By

Miss. Chaitrali Rajkumar Kadam.

Miss. Shubhangi Maruti Bansode.

Under the guidance of

Prof. Snehal Bhosale mam.

Through

The Principle

INSTITUTE OF COMPUTER & MANAGEMENT STUDIES, KASEGAON.

2020-2021

INSTITUTE OF COMPUTER & MANAGEMENT STUDIES, KASEGAON PANDHARPUR.

Certificate

This is to certify that the Seminar report entitled

"Image Editor Desktop Application."

This is summited by Miss. Chaitrali Rajkumar Kadam. & Miss. Shubhangi Maruti Bansode. For partial fulfilment of requirement of the award of Degree Bachelor of Computer Science (B.sc [ECS:-III] SEM VI) to solapur University, solapur has been carried out by them under my guidance satisfy during the academic year 2020-2021.

(Prof. Hingmire mam)
Project Head

(Prof. J.N .Arjun sir)
H.O.D.

Date:

(Prof._____)

Place: Kasegaon, Pandharpur.

EXTERNAL EXAMINAR

DECLARATION

To,

The Director,

SVIPE

Institute of Computer and Management study

Kasegaon-Pandharpur.

Respected Sir,

We are undersigned have submitted the report for the proposed project work entitled "*Image Editor Desktop Application.*" declare that we have submitted the report after thorough study & is not copied from some source.

Date:

Place: Kasegaon-Pandharpur.

(Sign: _____)

❖ Acknowledgement:

Our sincere thanks to our respected guide Prof. Snehal Bhosale who has been a constant source of inspiration and guiding star in achieving our goal.

We give our special thanks to respected Prof. J.N .Arjun (H.O.D) for his constant interest and constant encouragement throughout the completion of our project.

We express deep gratitude to all staff members who lend us their valuable support and co-operation to enables us to complete our project successfully.

At last we would like to thank our parents and friends also who constantly supported us for this work in all aspects.

Miss. Chaitrali Rajkumar Kadam.

Miss. Shubhangi Maruti Bansode.

ABSTRACT

Nowadays in the era of digitization where so many offline work is transforming into online work.

And at many places we need to upload an image and we can't upload the image directly we need to perform different operations on image like "Resize, Crop, Rotate, Open file, Filters" etc.

So to do these operations different applications are there in the market. But in this Project you will get all these operations in single application.

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Introduction

❖ Existing system and need for system:-

There are different websites and applications where image operations can be done but at one website/software we can do only one operations.

• Need of System:-

You can make any event look & feel more vibrant & fun with Photo editing.

You can also make your old photographs that are sketch, detail, emboss (soil texture) come to life with colour/texture.

These photographs can be fixed even if they are damaged. With help of some filters.

Photo editing can bring to life any picture with more memories and joy!

• Scope of System:-

This software offers a lot of tools or options that can make it easy for users to edit photos.

Which includes crop, resize, rotate, filters like sketch, emboss, blur, detail…etc.
& more making it is easy & convenient for editors to edit images using this software.

❖ **Operating environment:-**

1. Hardware environment:-

    a) Processor: - Intel(R) Core(TM) i3-6006U CPU @ 2.00GHz

    b) 4.00 GB RAM.

2. Software environment:-

    a. Python 3.8
    b. Anaconda3
    c. Spyder4
    d. Windows 10 (64 bit. os)

❖ Detail description about software:-

▪ Python 3.8:-

1. To desktop any python application require python software. Here, we use the python 3.8
2. Python 3.8 provides multiple libraries required to run python application.
3. Using python we can develop python application.

▪ Anaconda3:-

1. It is distribution of python.
2. It is world's most popular python / Data science platform.
3. It is package manager. It is easy to perform python data science and machine learning on Linux, window, mac… etc.
4. It manage libraries & environment with Conda.
5. It includes multiple libraries or module like, Script, Numpy, Pyinstaller, pip, PIL etc.

- **Spyder 4:-**

1. Spyder is an open-source cross-platform integrated development environment for scientific programming in the python language.

2. The Scientific Python Development Environment, is a free integrated development environment (IDE) that is included with Anaconda.

3. It includes editing, interactive testing, debugging, and introspection features.

- **Objective of system:-**

1. To over the problem arrived in the existing system.
2. To provide user good & user-friendly Photo editing application.
3. Easy to handle.
4. To provide good & efficient application.
5. It improve the working condition & performance of the use.

❖ Proposed System:-

This Project will be help user to get all operations at one single application. This application will be developed using “Python”. There will be following options in the applications:-

I. Upload Image button:-

By clicking on above button, user can upload the image from the system.
In this project we do name for this button as “click to open file”

II. Select Image Operation:-

This will be dropdown field by clicking on it, dropdown list will be listed Where user can choose the operation

That he/she wants. As follows:-

- **Filters:-**

  i. blur:-

  Use for making image blur.

  ii. Sketch:-

  Use for making image Sketch.

iii. **Detail:-**

Use for making image Detail. I.e. clear image.

iv. **Enhance_Edge:-**

Use for making image Enhance_Edge. . I.e. image display in pixel Form.

v. **Enhance_EdgeMore:-**

Use for making image Enhance_EdgeMore. I.e. image display in more pixel Form.

vi. **Emboss:-**

Use for making image Emboss. I.e. image display in soli texture form.

vii. **FindEdeges:-**

Use for making image FindEdeges. I.e. image display in black texture form.

viii. **Sharpen:-**

Use for making image Sharpen.

ix. **Smooth:-**

Use for making image Smooth.

x. **Smooth more:-**

Use for making image Smooth more.

III. **Apply:-**

It is to tell application to do perform selected operation.

A. **Resize image:-**

This button will be for Resize that selected image in the system.

B. Rotate image:-

This button will be for Rotate that selected image in the system.

C. Crop image:-

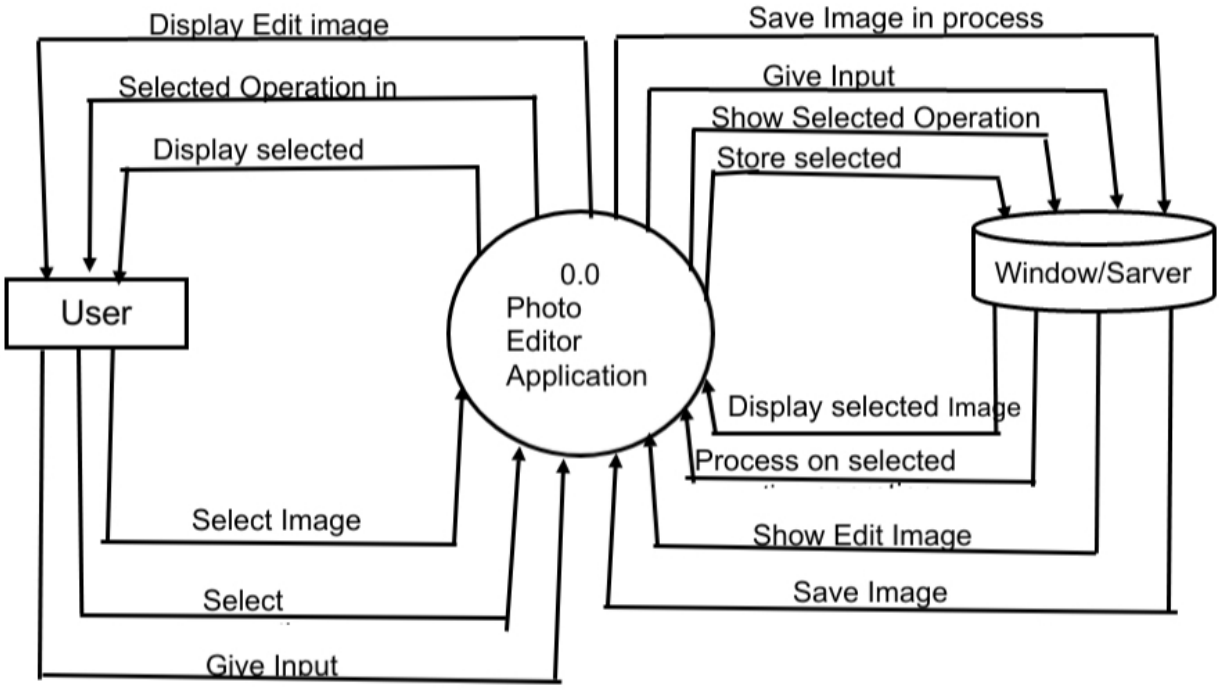
This button will be for Crop that selected image in the system.

IV. **Save image:-**

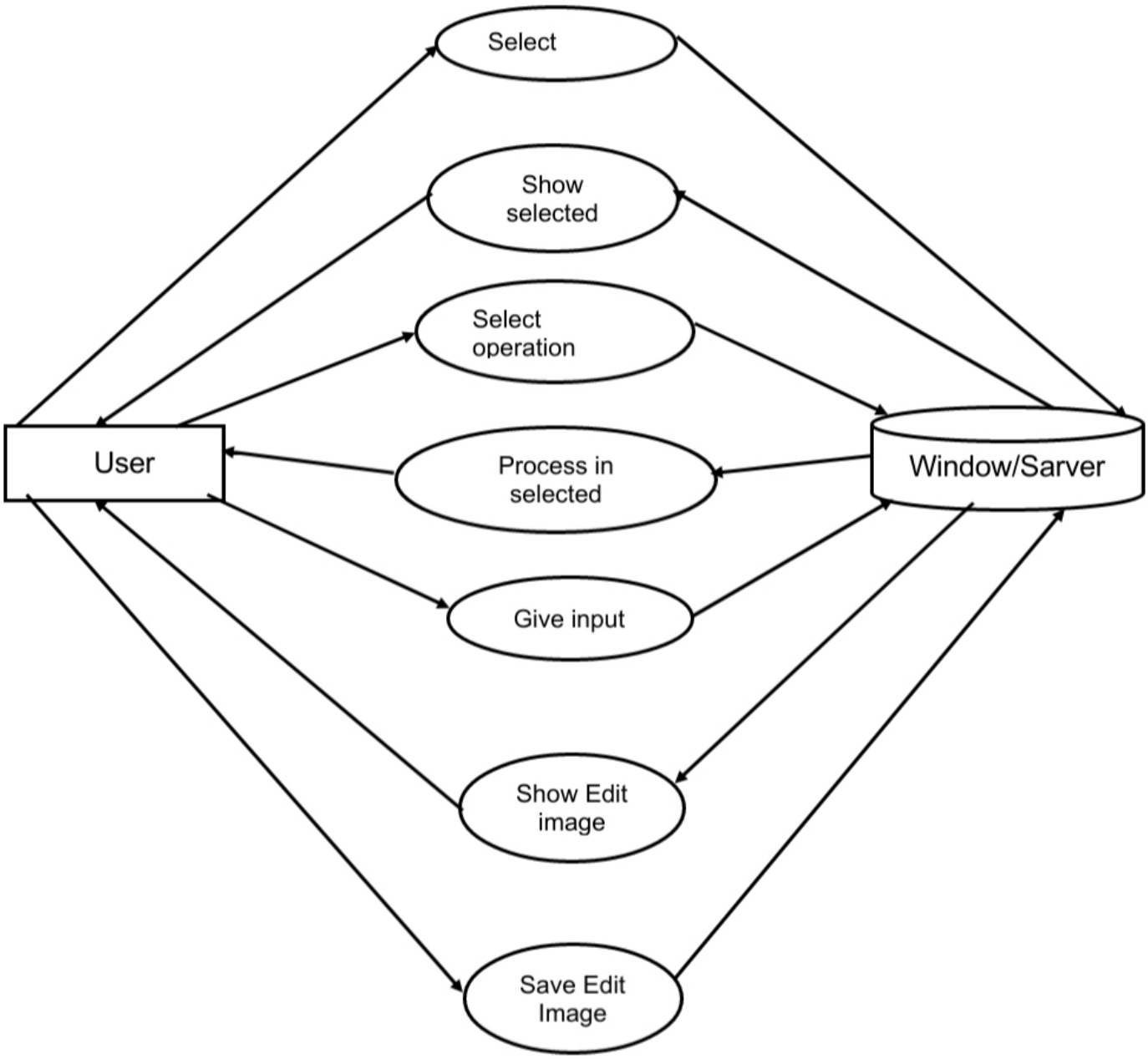
This is used for saving that selected image in the system.

❖ Analysis and Designing:-

Context Flow Diagram:-[CFD]



Entry Relationship Diagram:-[ERD]



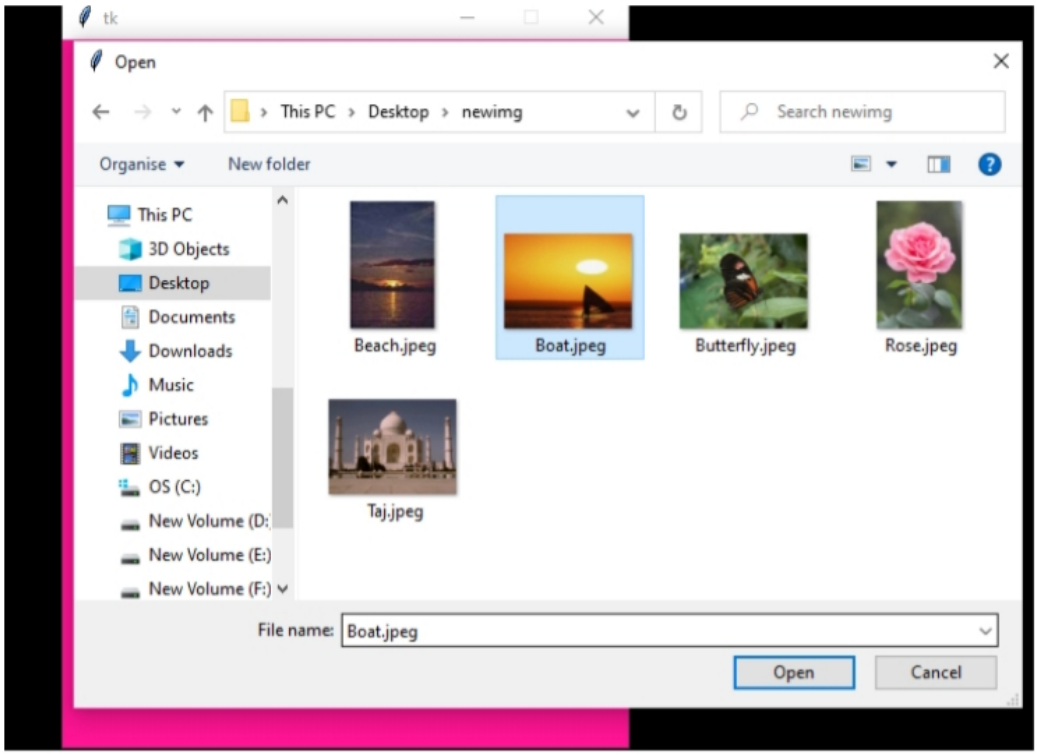
➢ **Outputs: -** ***"Image Editor Desktop Application."***

GUI-I

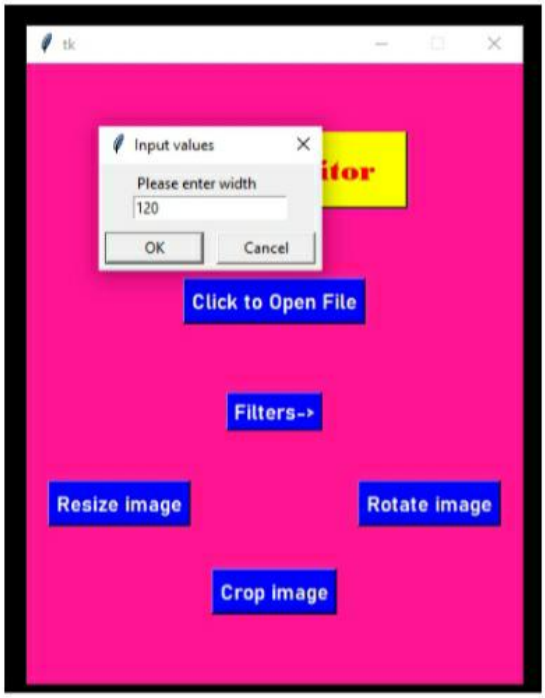
GUI-II

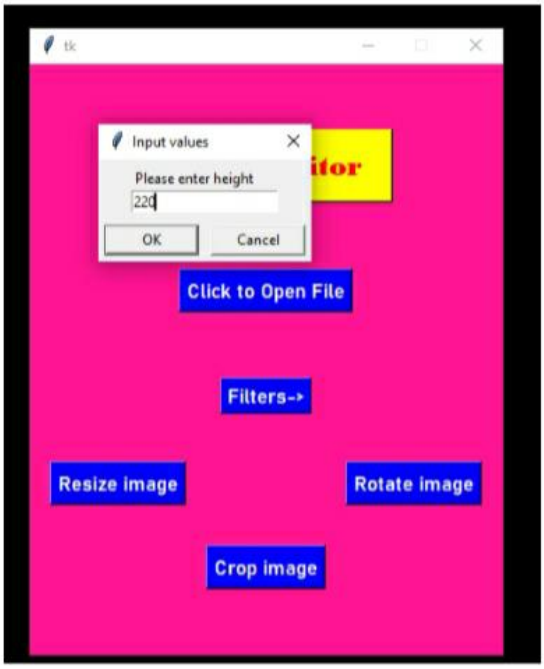

tk
Image Editor
Click to Open File
Filters->
blur
Sketch
Detail
Enhance_Edge
Enhance_EdgeMore
Emboss
FindEdeges
Sharpen
Smooth
Smoothmore
Resize image

- **Click to Open File:-**

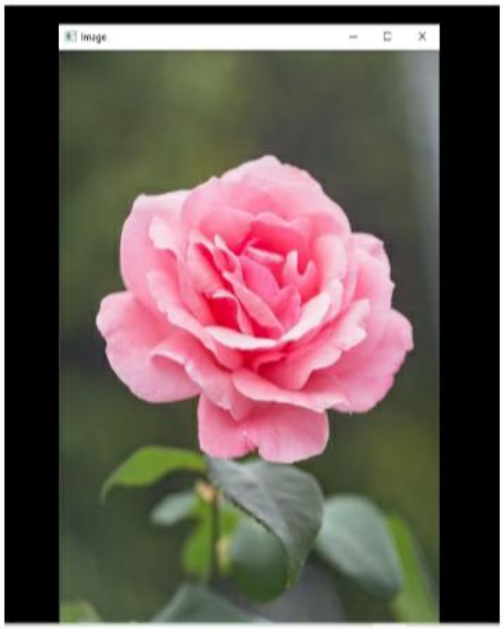


- **Resize image:-** **Inputs**





Original image



Resize image