

Project 1 :

Title : Developing GUI for Data Augmentation

Aim : To develop a Graphical user interface for generating artificially augmented data used for training deep learning models.

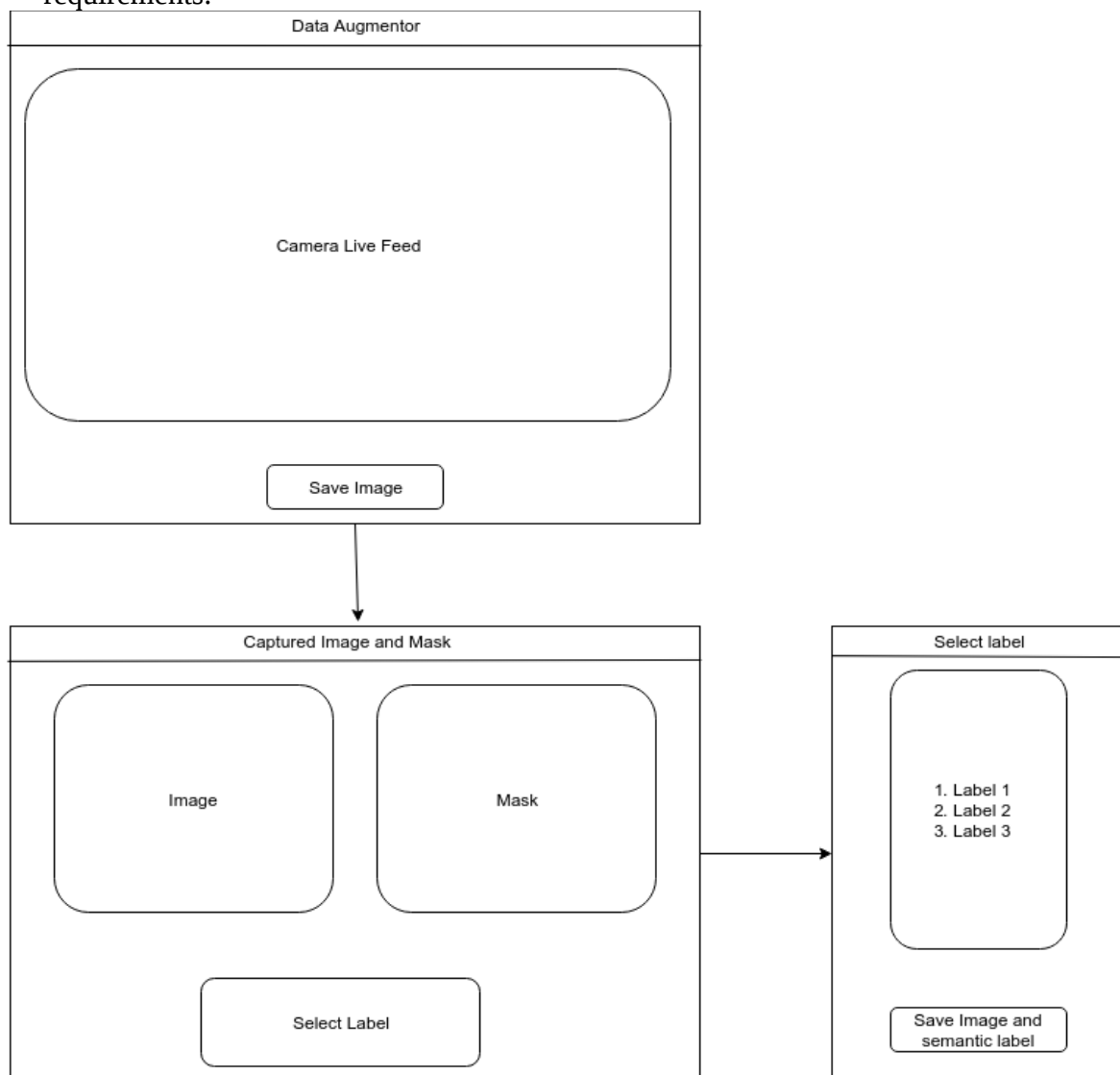
Users : Deebul Nair / Santosh Thoduka

Requirements :

- 1) Build a pipeline to artificial generate annotated data for training deep learning models.
- 2) Pipeline includes starting from capturing images using provided camera (Realsense), generate semantic labels of the captured image and then generate the artificial images.
- 3) GUI required for the end user from capturing to labelling and generating new data.
- 4) Making the software pip/conda installable
- 5) Writing test cases
- 6) Integration with github CI

Delivarables :

- 1) At the end of SDP course, expected to deliver working software as per the above mentioned requirements.



Project 2 :

Title : Integrating Data Augmentation in labelme

Aim : To integrate Data augmentor tool to existing open source software *labelme*.

Users : Deebul Nair / Santosh Thoduka

Requirements :

- 1) Integrate the Data augmentor tool to existing GUI of label which is used for annotating already captured images.
- 2) End to end software to annotate and augment the given dataset.
- 3) Making the software pip/conda installable
- 4) Writing test cases
- 5) Integration with github CI

Delivarables :

- 1) At the end of SDP course, expected to deliver working software as per the above mentioned requirements.

