

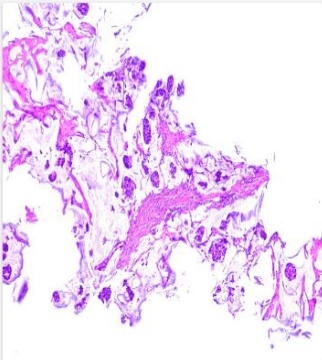
# **An End-To-End Crowdsourcing Platform For Pathological Images**

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# Problem Statement

To create a labelled data for pathological images using crowdsourcing



Twitter Description

Mucinous carcinoma. Breast, core needle biopsy. HE stain. <https://t.co/cwyobeFZES>

Details

**Patient History:**  
Name: Katta Rajasekhar  
Hospital: Goyal Hospital

Age: 21  
Biopsy: 123456

**Tissue:**  
12

**Macroscopic Examination:**  
None

**Clinical Diagnosis:**  
Test

**Gross Finding:**  
Test

**Report:**  
Test

**Signature:**

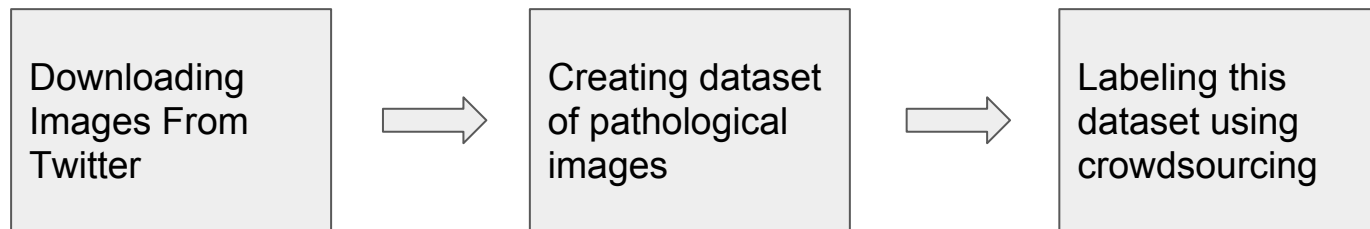
☒ Description is useful

☐ Invalid Image

# Tools And API Used

- 1.) Vue Js and Vuetify
- 2.) Firebase
- 3.) Twitter API
- 4.) Keras
- 5.) Tensor Flow

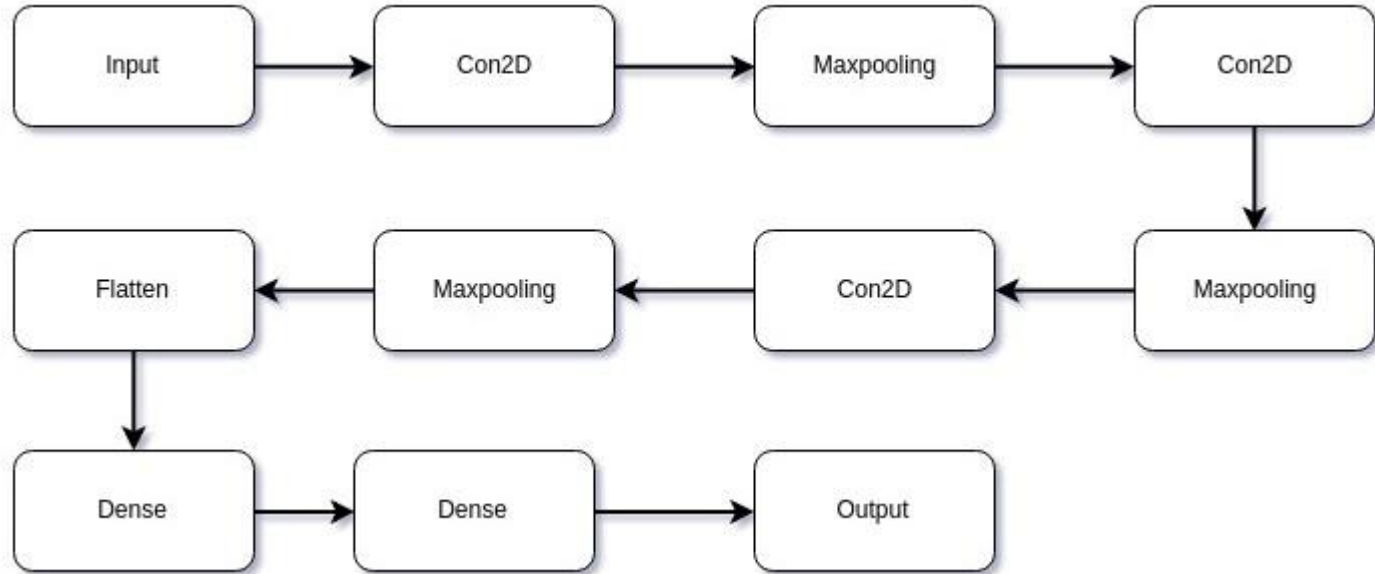
# Overview



# Downloading Images From Twitter

1. Download tweets of some particular person
2. Download images from tweets
3. Save both images and tweets

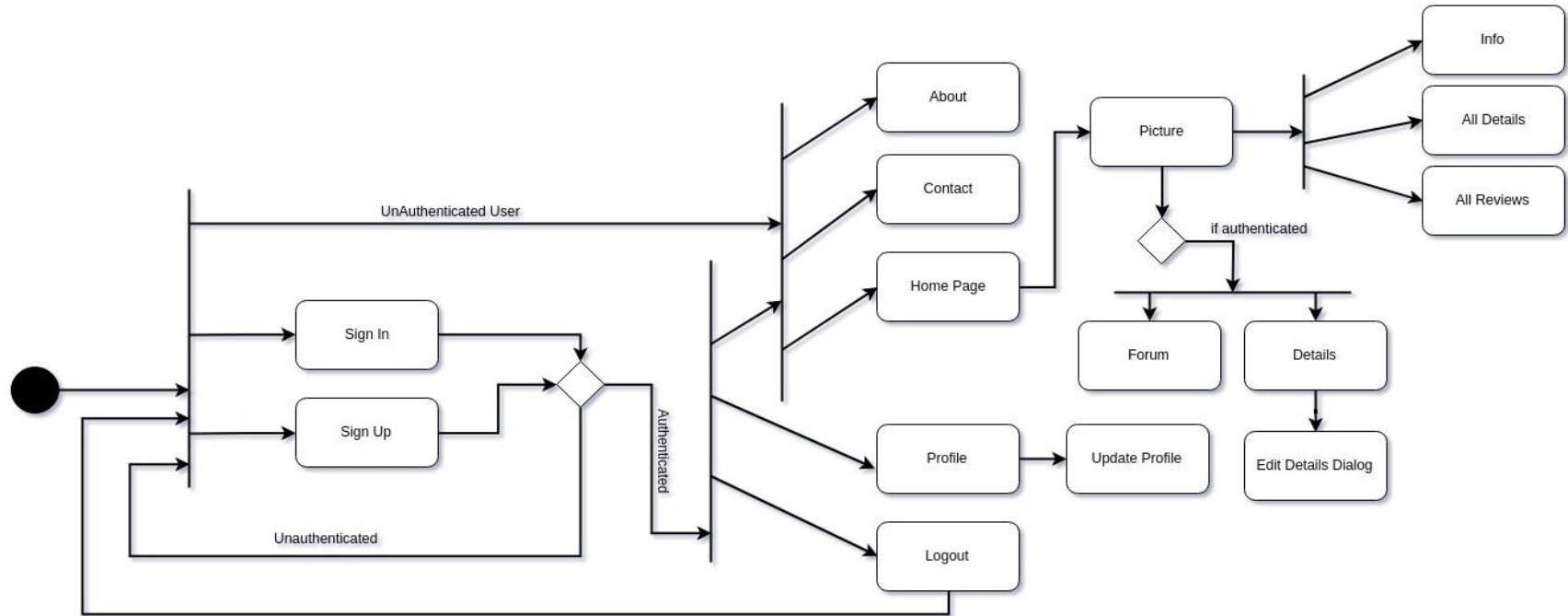
# Filtering Pathological Images



Input: Image

Output: Pathological(0) / Other(1)

# Crowdsourcing Platform



Website Flowchart

# Conclusion and Result

1. Download 8000+ images out of which 4731 images are predicted to be pathological images
2. Trained classification model with an accuracy of 95 percent
3. Built website with expected features



Thank You