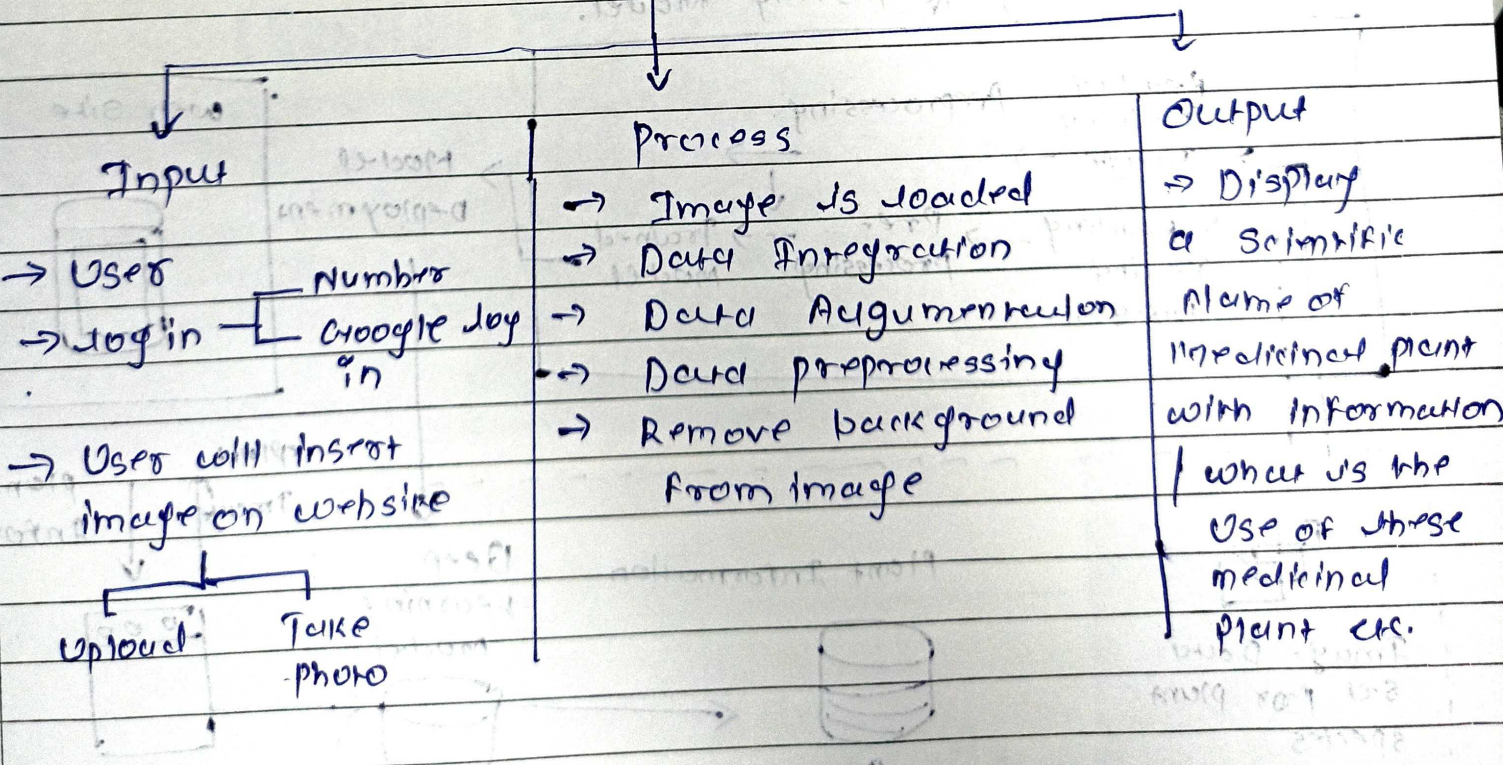* Group NO: 11

* **Problem Statement:** Identification of Different medicinal plants /Raw Materials through Image processing using Machine Learning algorithm.

* **Problem Statement breakdown:**

→ Image processing
→ Machine Learning algorithm
→ Convolution Neural Network
→ Open Source

*
                    Identification of Medicinal
                              plant

Input	Process	Output
→ User	→ Image is loaded	→ Display
→ log in ⌐ Number	→ Data Integration	a Scientific
└ Google Log in	→ Data Augumentation	Name of
	→ Data preprocessing	medicinal plant
→ User will insert image on website	→ Remove background from image	with Information / what is the use of these medicinal plant etc.
Upload ⌐ Take photo		

* Input Technology ——→ A web development
            * HTML   * CSS   * Bootstrap
            * Javascript   * CANVA

* Process Technology, ——→ * Deep learning * Image processing
            * CNN

* Output & * Information about the Plant & there
            Scientific Name

Challenges : ① Lack of Medicinal Plant image Datasets
            ② Unknown Plant Leaves
            ③ Traning Time
            ④ Lack of GPU
            ⑤ Similar plant with Different characteristic

* System Diagram:

Training & Testing model.

Reading   Preprocessing
Training
Image →

——→ Reading ---→ Pre- --→ Trained
Testing   processing   Model
Images

Model
Deployment

web site

Image Data
Set for plant
species

Plant Information

Deep
Learning
Model

plant
Image

plant
Information

Temporary Database

Plant Species / Information.