Project Name: Detection of the fake currency

Project Description: This Project use python and ML, The end product of this project is the live application which can be used/launched by end user. The application takes currency image as the input and apply Machine Learning algorithm to predict output.

Hardware Requirements:

- CPU: Pentium IV 2.4 GHz or above
- Memory(Primary): 512MB, 1 GB or above
- Hard Disk: 40GB,80GB or above
- Monitor: 15VGA color
- Camera: To scan the currency

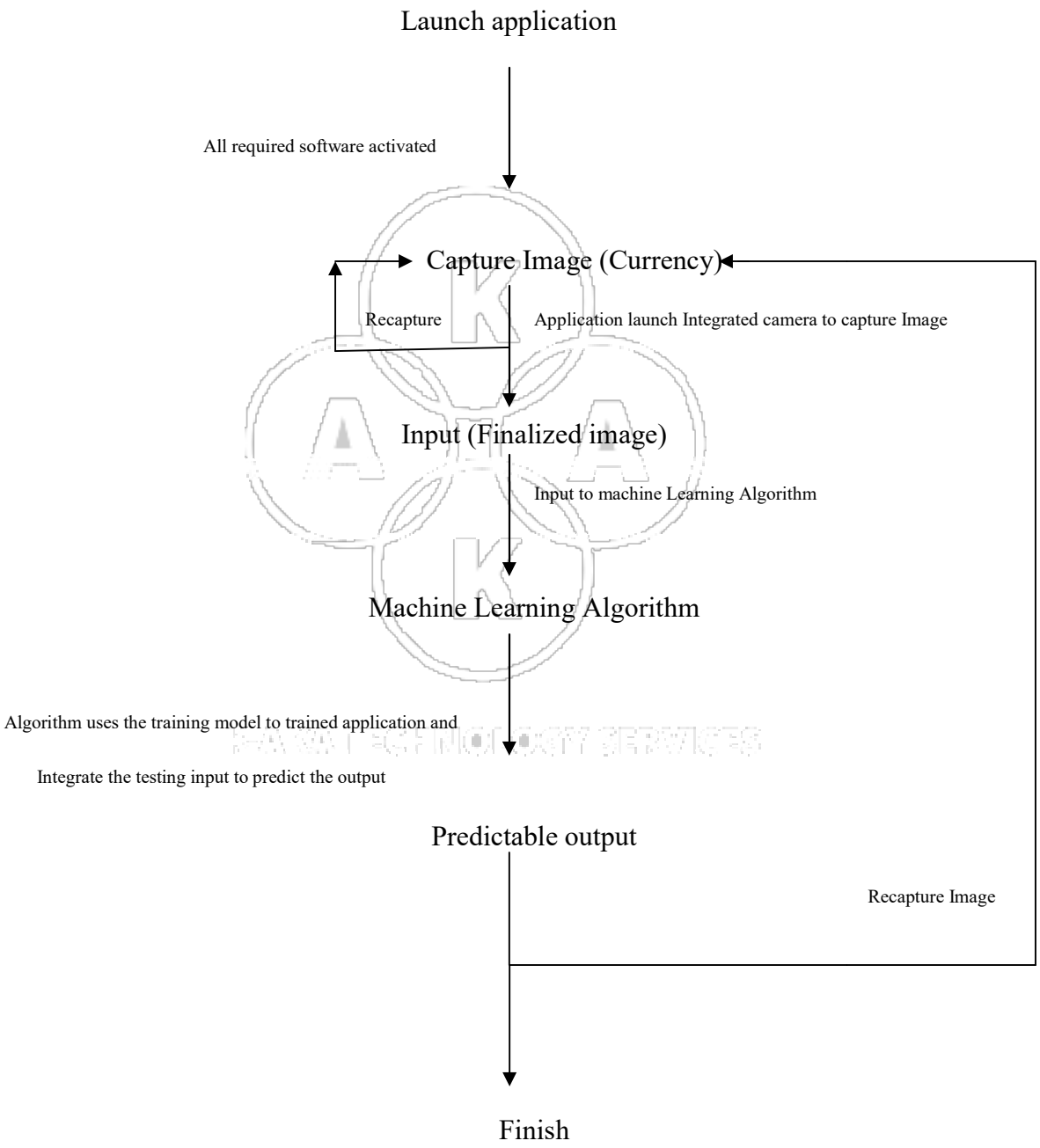
Software Requirements:

- Language: Python , Machine Learning
- Operating System: Window 7/8/10
- Application Required: Camera(As third party application)
- Python IDE : Anaconda
-

Application Design:

1. User can launch the application without any third party dependencies
2. User can start the camera to capture or scan the currency to analyze
3. Recapturing of the currency is enabled in the application.
4. User can analyses the captured image via ML on the interface

Application Flow



Interface Design:

STEP(s):

1. Application have the first interface of loading all dependencies and enabling third party required application
2. Dashboard page contains an button to enable the camera to capture Image
3. User can recapture the image till the satisfaction of the user.
4. User can click on the analyze Button to predict the property of the uploaded image in the application.
5. The predictable output can be visualized by the user on the interface.
6. Application is ready for the next iteration of the scanning image
7. Finally user can stop the Application, which automatically disables all the dependent software.

FRONT END DESIGN OF APPLICATION: PYTHON FRAMEWORK

BACKEND: NONE

MACHINE LEARNING ALGORITHM: BFM Technique, KNN Algorithm

APPLICATION: RUN ON LAPTOP/DESKTOP.