**Innovative Web-Based Facial Analysis App**

# **User Requirement for Innovative Web-Based Facial Analysis App:**

# Project Details

* I am in the process of creating a cutting-edge application that specializes in analyzing various facial features. This app will be deployed on a web platform, and I am seeking a skilled Python Flask developer to bring this project to life. The core functionalities of this application includes:
* **\*Detection of Facial Landmarks\*** The app should accurately identify key points on a user's face, such as the corners of the eyes, the shape of the lips, and the outline of the jaw.-
* **\*Emotion Recognition\*** Leveraging facial landmarks, the app will analyze facial expressions to determine the user's current emotional state
* **\*Age Estimation\***: Using facial features, the application will estimate the age of the user

# \*Ideal Skills and Experience\*

* + Prospective freelancers should possess the following to be considered for this project:
  + -Proficient in Python, specifically with Flask framework experience.
  + Strong background in computer vision and facial recognition technologies
  + -Familiarity with Al and machine learning techniques, especially in emotion detection and age estimation
  + Experience deploying applications to a web platform
  + When creating a requirement for a Python Flask developer tasked with building a system to analyze facial features like face acne count, hyperpigmentation, redness, dark eye wrinkles, and dark circles, you might want to include specific details about the functionalities, technologies, and deliverables.

**Position:** Python Flask Developer Facial Feature Analysis

# Responsibilities:

* Develop a Python Flask web application for facial feature analysis
* Implement image processing functionalities to identify and count face acne, hyperpigmentation, redness, dark eye wrinkles and dark circles
* Utilize computer vision techniques to locate and analyze specific facial features. Integrate with image processing libraries and tools for accurate and efficient analysis.
* Ensure the application is user-friendly, with the ability to upload and process images

# Requirements

* + Proven experience as a Python Flask developer, with a strong background in web development.
  + Expertise in image processing and computer vision techniques, particularly for facial feature analysis: Familiarity with libraries such as Open CV or other relevant tools for image analysis
  + Previous projects demonstrating the ability to identify and count specific facial features accurately.
  + Strong understanding of web development principles, RESTful APIs, and backend development with Flask.
  + Experience with handling image Uploads, storage, and retrieval in a web application context.
  + Knowledge of front-end technologies (HTML, CSS, JavaScript) for integrating the developed backend with a user-friendly interface
  + Excellent problem-solving skills and the ability to work independently.

## Skill Required:

Python, Software Architecture, Machine Learning (ML), Flask, Al (Artificial Intelligence) HW/SW