**Task 3**

**Project Overview: Long Hair Identification for Gender Classification**

The goal of this project is to develop a machine learning model that detects gender based on hair length with specific conditions:

* For individuals aged 20-30, the model should classify:
  + Long-haired individuals as female, even if they are male.
  + Short-haired individuals as male, even if they are female.
* For individuals outside this age range (below 20 or above 30), the model should classify gender normally, without considering hair length.

This solution will involve several components including data preprocessing, model training, creating a graphical user interface (GUI), and performance evaluation.

**Model Weights and Saved Model**

After training, save the model to a file and upload it to Google Drive if it is large. Share the links to these files:

* **Google Drive Links (Example):**
  + Model Weights
  + Saved Model

**Model Performance Evaluation**

In your Jupyter Notebook, evaluate your model’s performance using:

* **Accuracy**: Overall accuracy on the test dataset.
* **Confusion Matrix**: To visualize the model's performance in distinguishing between the two classes (custom gender).