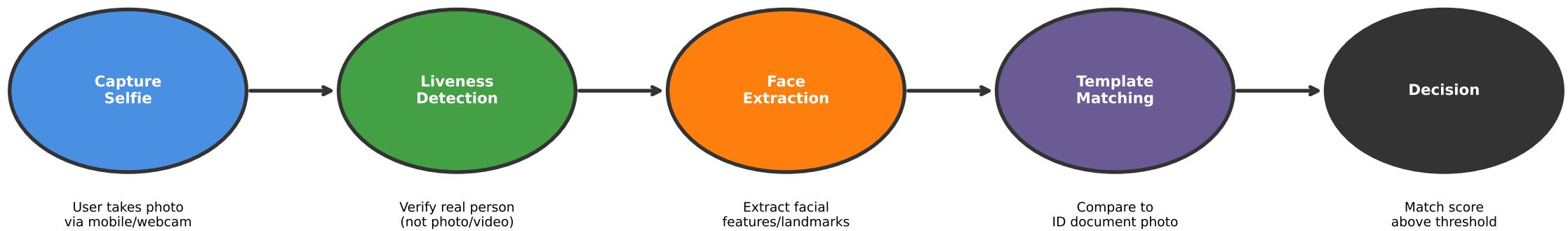


Facial Recognition Verification Flow



Liveness Detection Methods:
- Active: Ask user to blink, smile, turn
- Passive: Analyze texture, depth, motion
- 3D: Structured light, stereo vision
- Challenge-response: Random prompts

Match Metrics:
- FAR: False Accept Rate
- FRR: False Reject Rate
- Typical threshold: 99% confidence
- Industry standard: FAR < 0.1%

Spoofing Attacks: Photo attacks | Video replay | 3D masks | Deepfakes