CLASS Conference 2012

Cloud Assisted Services

Fingerprint Verification as a Service in KC CLASS

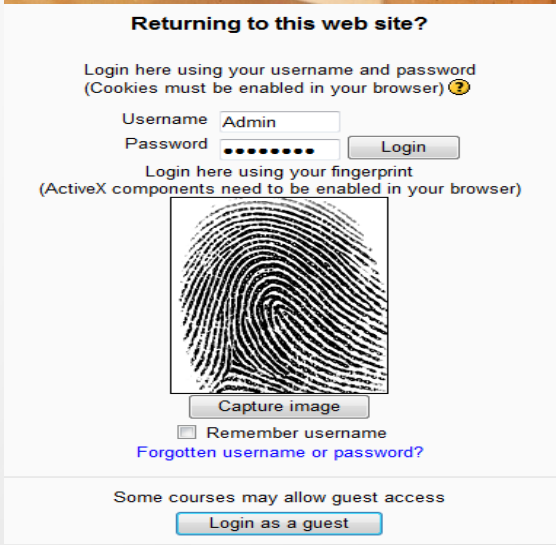
Jernej Bule, Peter Peer

Researcher

Computer Vision Lab, Faculty of Computer and Information Science, University of Ljubljana

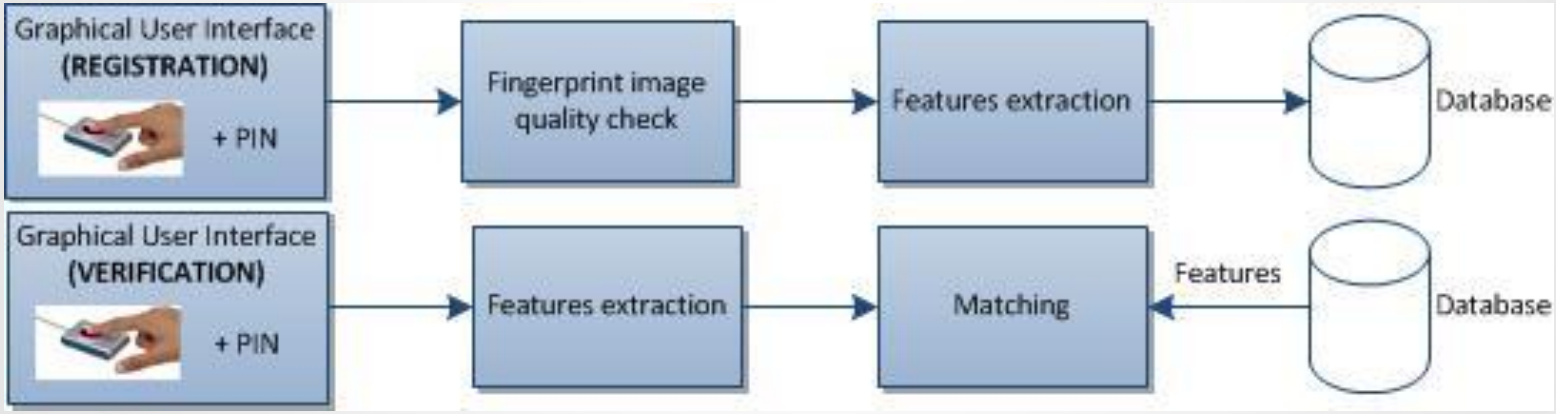
Overview

- Own system for verification of persons based on fingerprints
- System integration in a cloud platform
- Data security and authentication data fusion
- Modified e-learning system as a test environment for proof-of-concept

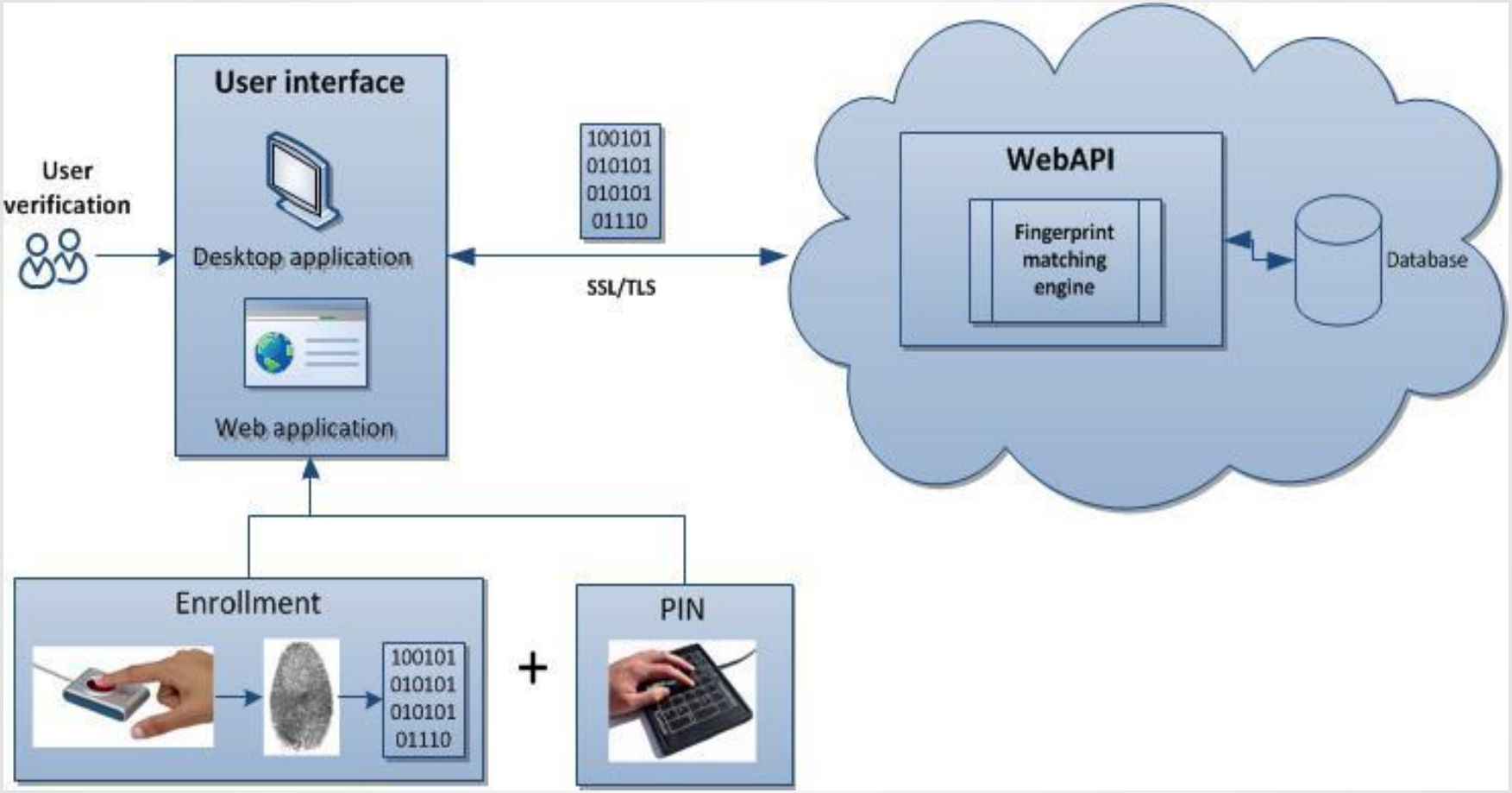


Fingerprint verification system

- Two main parts
  - User registration and verification process
- Using verification to increase the level of security



Integration in a cloud platform

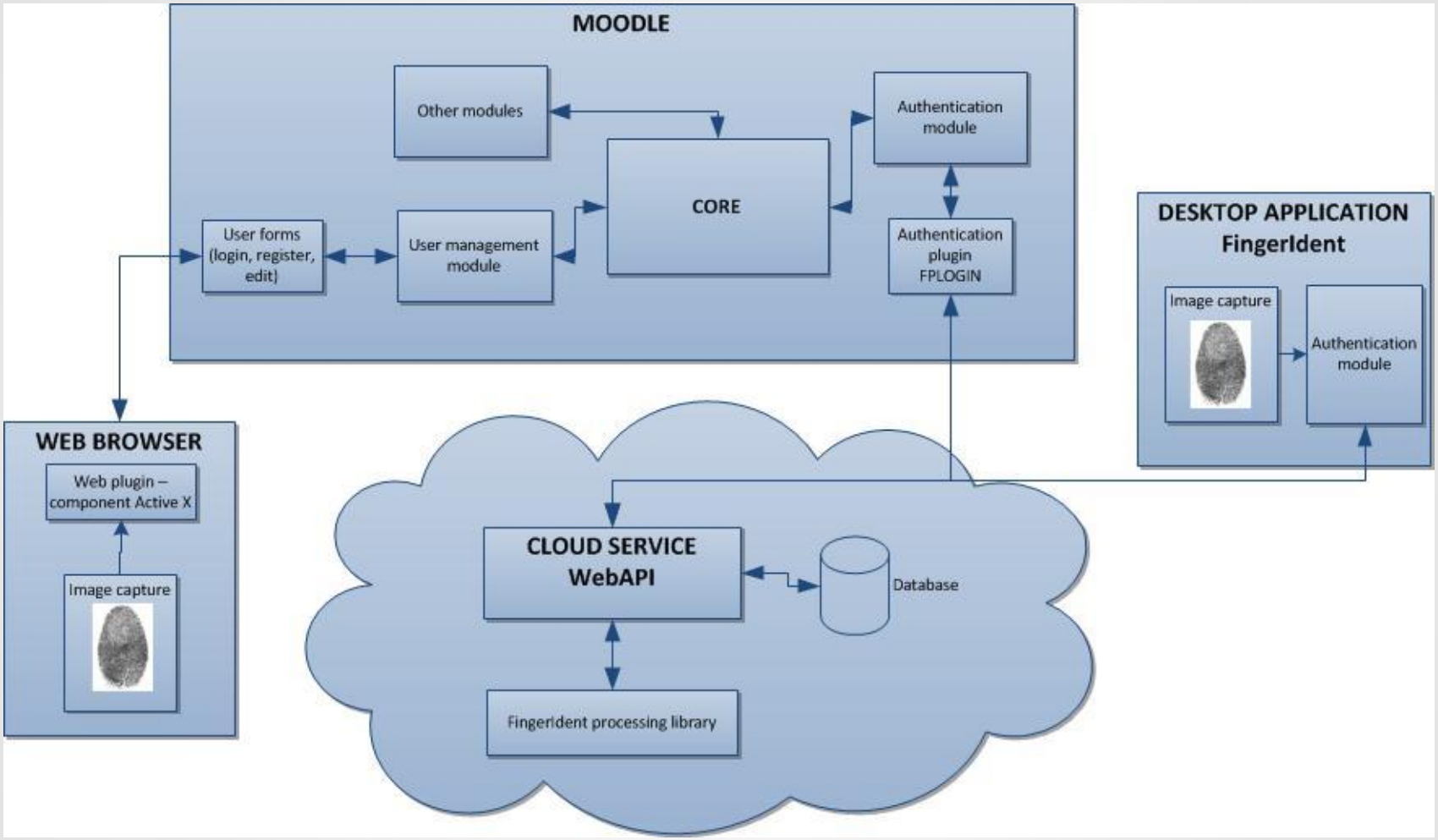


Authentication data fusion and data security

- Integration of multiple data derived from different authentication process

- Security provided on different levels
  - HTTPS protocol
  - Encryption
  - Protected access to services

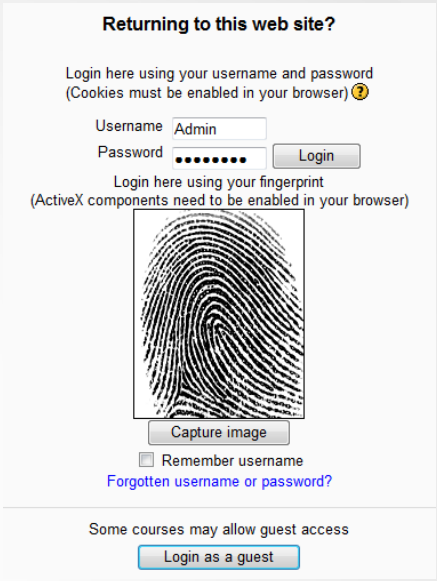
E-learning environment with fingerprint verification



Conclusion

- Primary goal of our project is a working fingerprint-based biometric verification in a cloud-platform
- Proposed solution can be easily applied to different biometric modalities
- A pilot version of the entire is already installed

- We are looking for partners/users that would like to use the system in their environments



Jernej Bule

Computer Vision Lab, Faculty of Computer and Information Science, University of Ljubljana

jernej.bule@fri.uni-lj.si