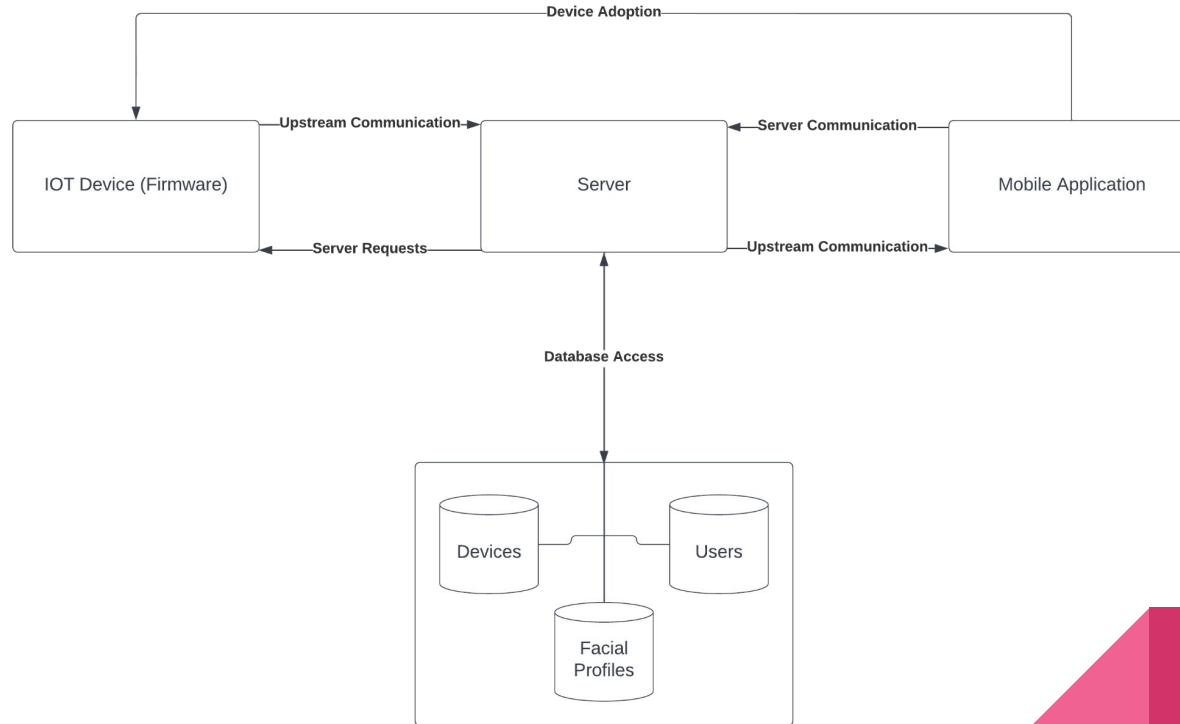


Secure Door Lock

Christopher Kiefer, Warren Smith, Luke Bucher, James Pabsiz

A Review

Integration Flow Through



A Review cont.

Terminology:

API - Out backend Service that hosts the message bus and the database for communication between the mobile application and the IOT device

IOT Device- Our Raspberry pi that is housed within the door lock, facilitates the communication between the API and the physical devices: Camera and Door Lock



Where we are

Task	Completion	To do
Facial recognition	80%	Face comparaison
App Development	75%	UI updates from API
API	60%	Message Bus Message passthrough to IOT device IOT registration
IOT Device	15%	Addition of Web service, Communication between API and local IOT

Motivation

- Producing a secure and easy to use product
- Upgrading conventional lock while keeping modern features
- Drive the cost of the systems down in industry
- Require less specialized people to fix and maintain the lock



Goal

- Maintain security
- Fix scalability
- Configure who can open door
- Work lock from an app
- Monitor lock status from app



Milestone 4 Tasks

- App GUI Completion
- API Completion
- Facial Comparison
- Web Server setup within Raspberry Pi



Milestone 5 Tasks

- Final Integration Between all Systems
- Conduct evaluation and analyze results
- Create poster for Senior Design Showcase



Milestone 6 Tasks

- Test/demo of the entire system
- Conduct evaluation and analyze results
- Create user/developer manual
- Create demo video





Thank you. Questions?