

Towards Supporting a Diverse Ecosystem of Authentication Schemes

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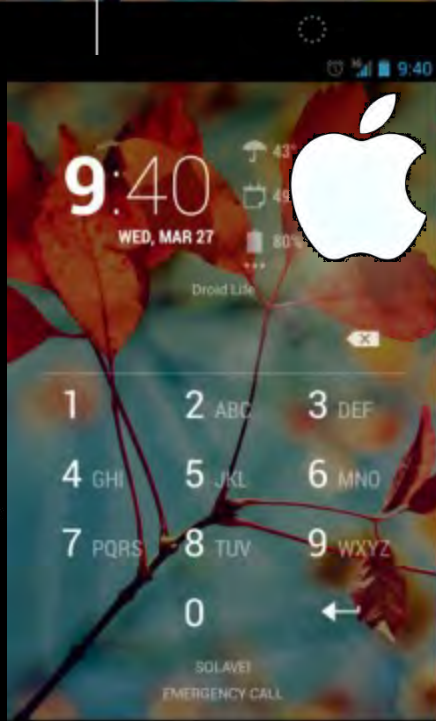
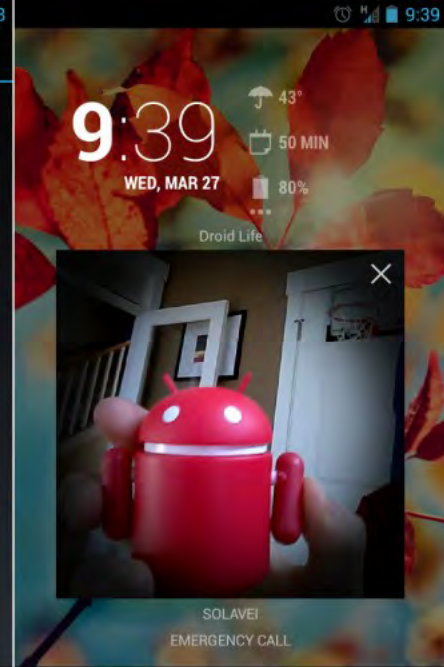
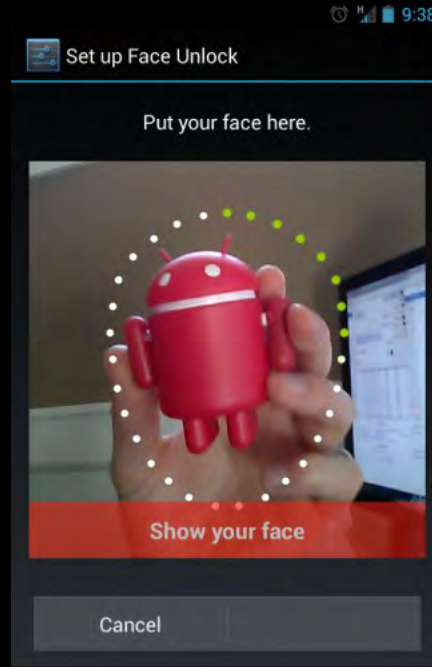
Presented at the

Who are you?! Adventures in Authentication Workshop
Symposium on Usable Privacy and Security 2014



Knowledge-Based Authentication

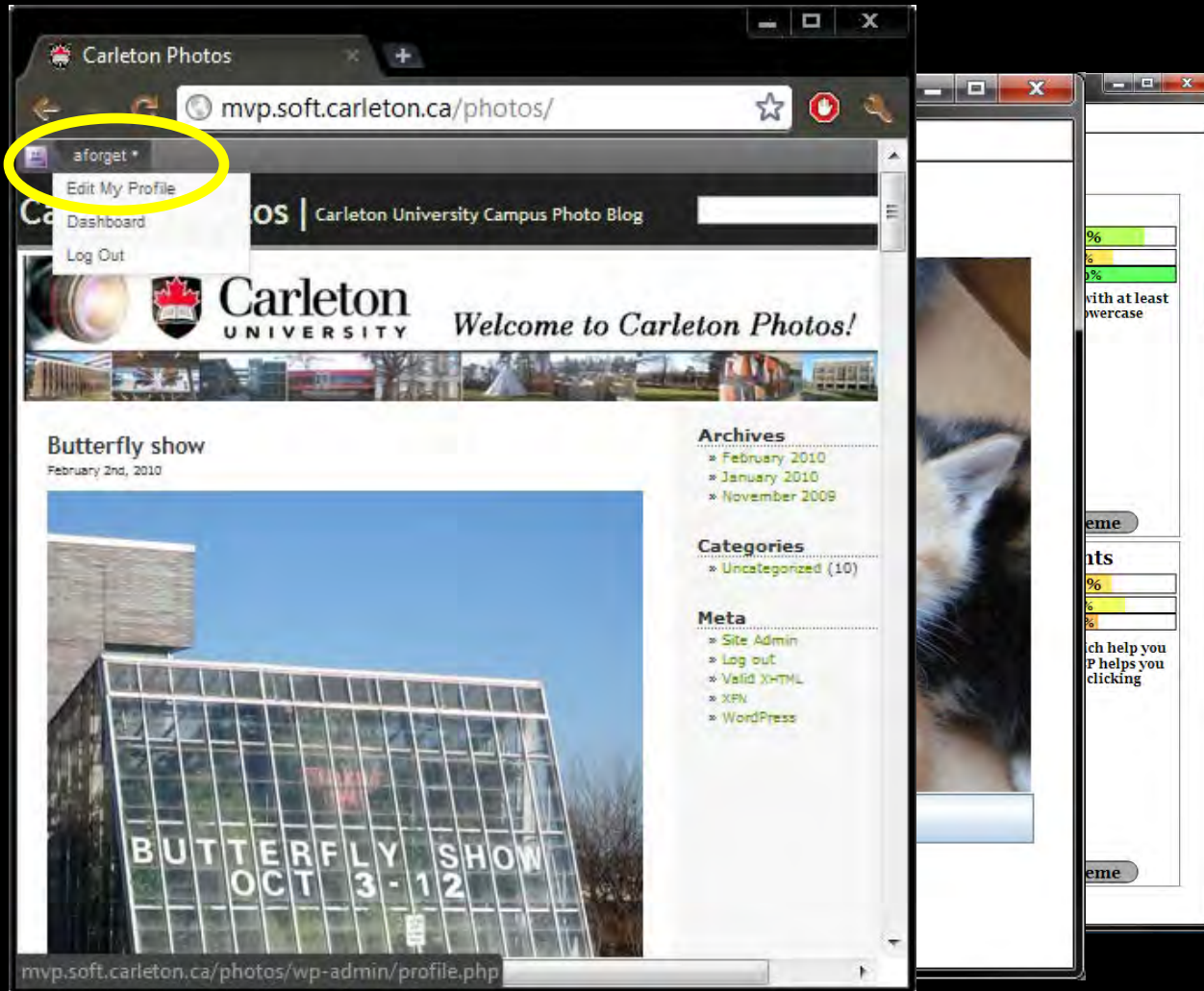




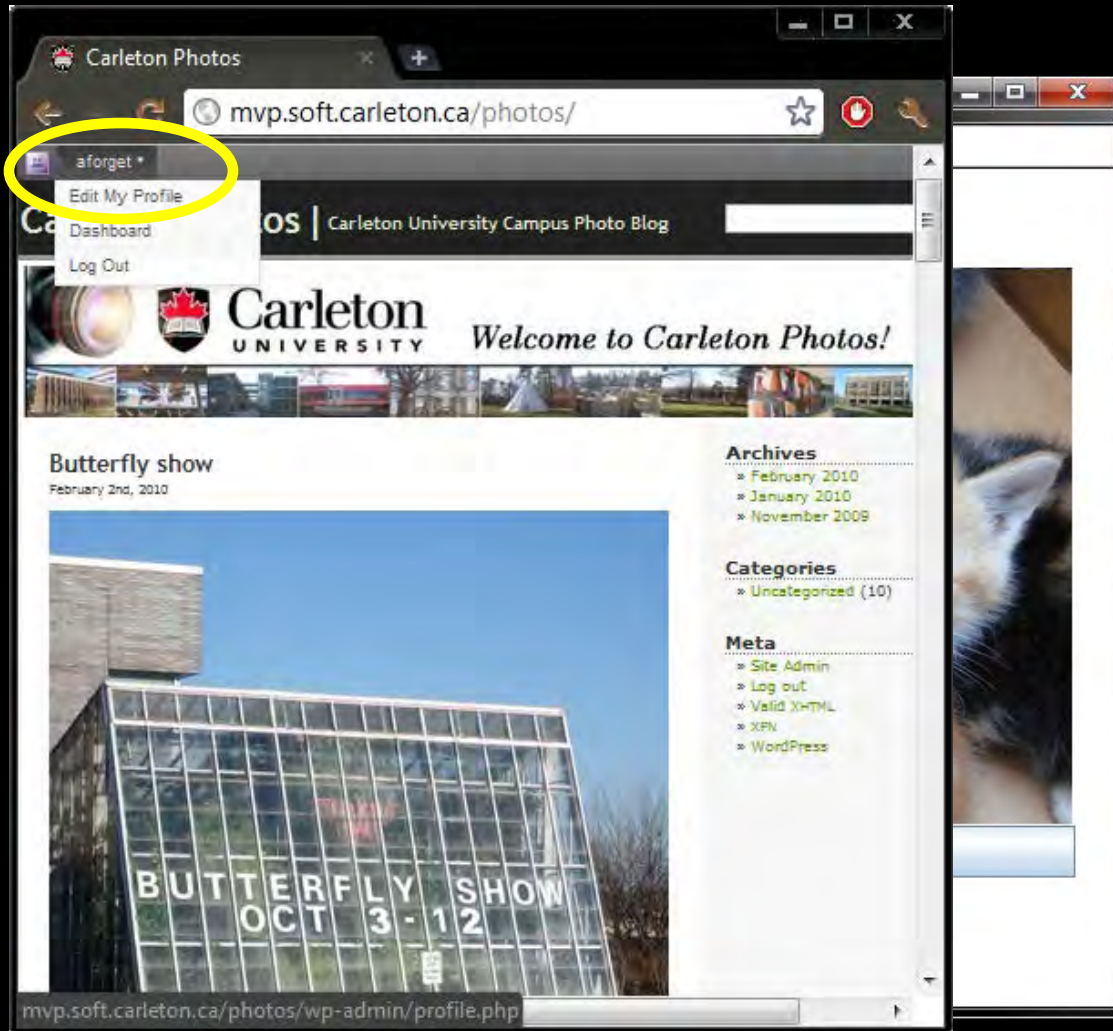
Choose Your Own Authentication (CYOA)



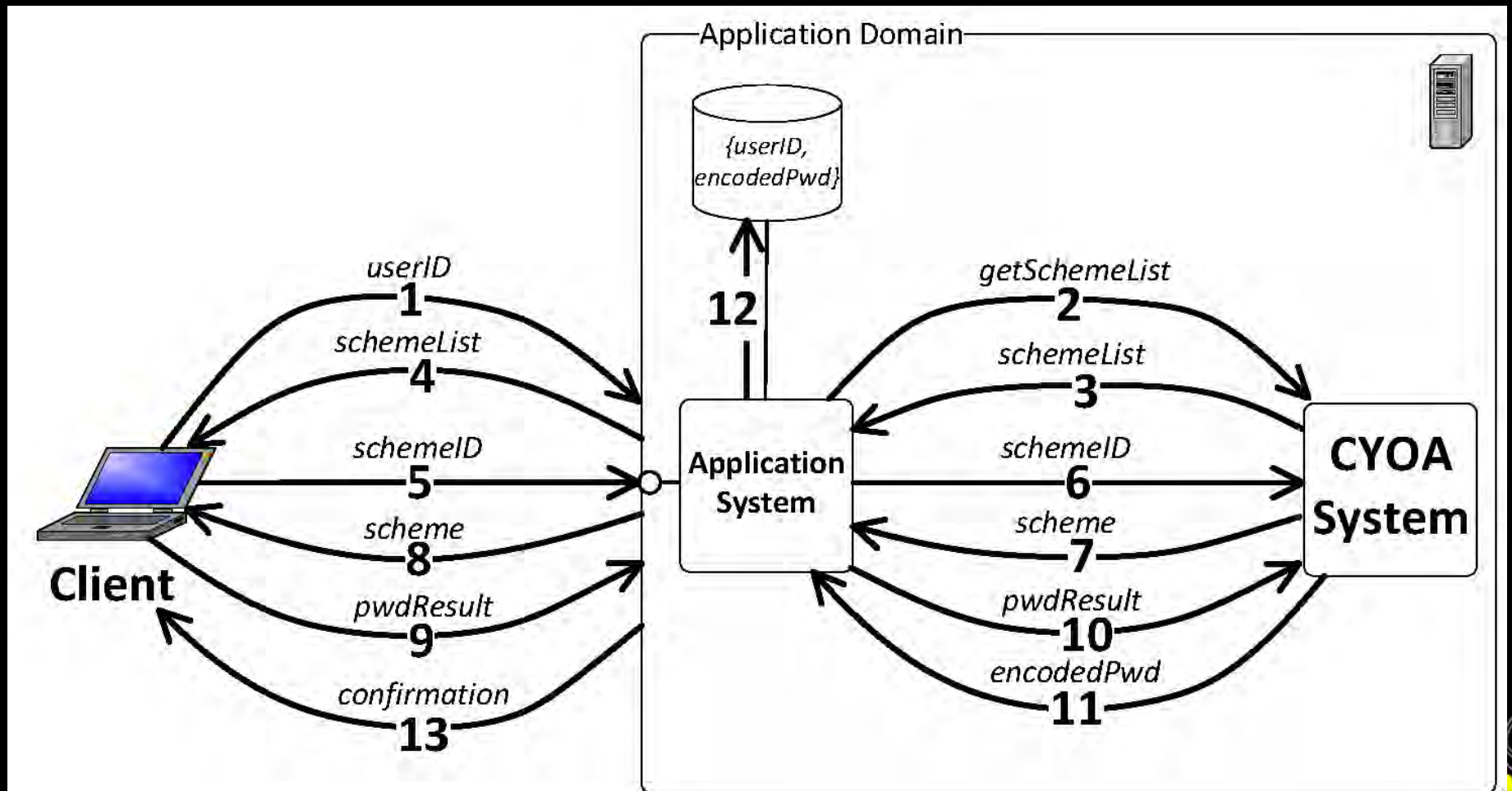
User Experience Example: Registration



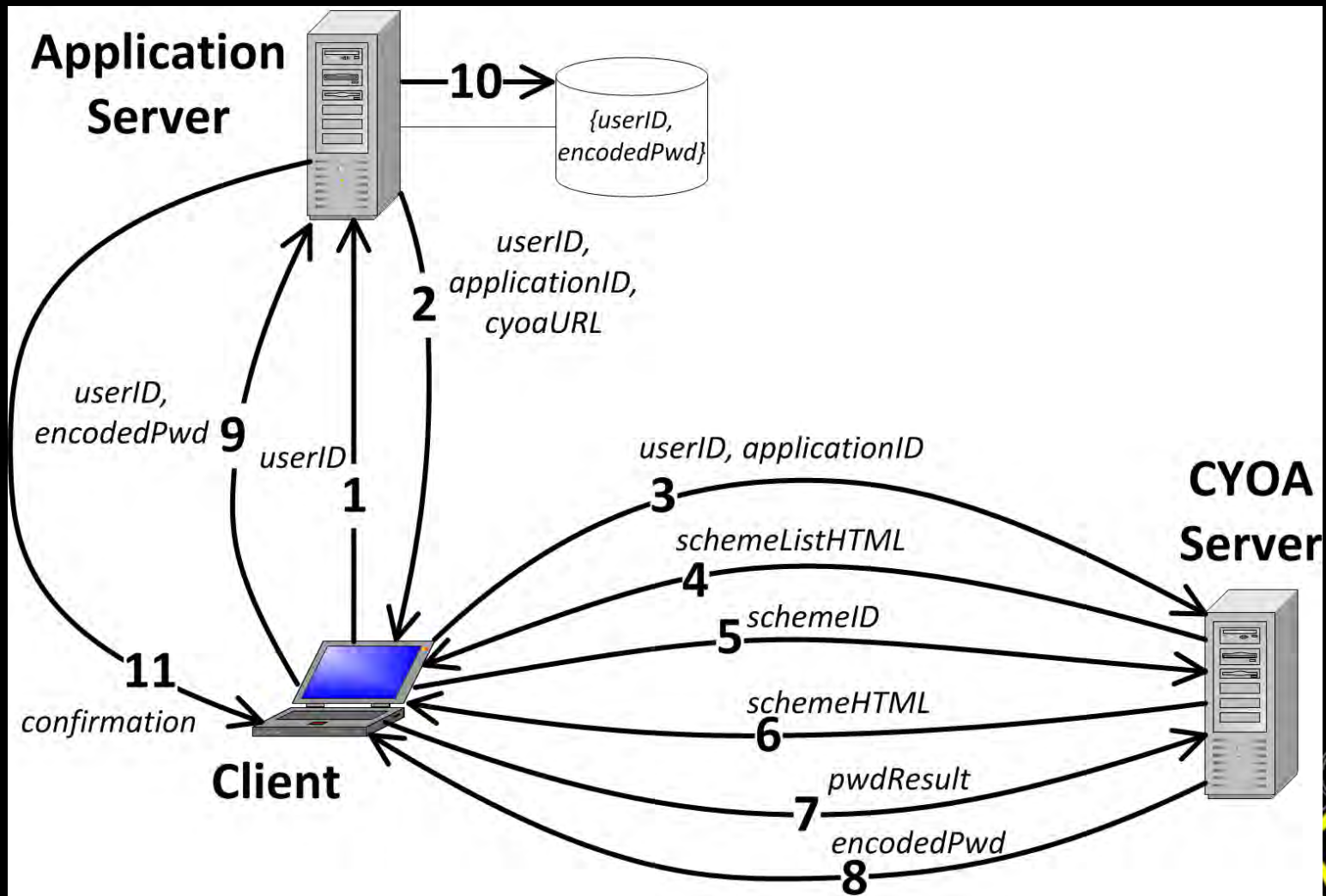
User Experience Example: Login



Two-Party CYOA Architecture



Three-Party CYOA Architecture



CYOA offers numerous advantages

- Easy adoption for existing systems
- Supports most KBA schemes
- Facilitates administration & scheme design
- Accommodates user preference & accessibility



Future Work

- User studies and data analysis are on-going
- CYOA support for non-KBA schemes
- Accessible authentication
- Automatically determine user abilities



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