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Capital One Mobile Authentication: Authentication using Biometric

Anh Dang

Virginia Commonwealth University

Hunter Miller

Virginia Commonwealth University

Matthew Mosca

Virginia Commonwealth University

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Team Members: Anh Dang, Hunter Miller, Matthew Mosca

Faculty Advisor: Dr. Robert Dahlberg

Sponsor: Capital One

Sponsor Advisor: Nathan Jones, James Kresge

COMPUTER SCIENCE



Capital One Mobile Authentication

Authentication using Biometric

CAPSTONE DESIGN EXPO 2016

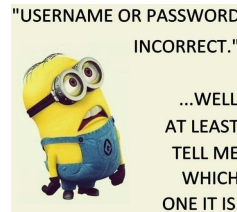
What is Mobile Authentication?

- A development of retinal/facial recognition
- A development of authentication API
- Integration of EyeVerify SDK
- Evaluation of EyeVerify SDK

Development

- Mobile Application
 - Development of user interface using Swift, Objective-C, and Xcode
 - Implementing EyeVerify SDK
 - Alamofire and AFNetworking are being used to make HTTP requests
- RESTful API
 - Development of back-end using node.js and MongoDB
 - Handling information and account management
 - Heroku for hosting

Why Biometric?



- Username/Password:
- Lack of identity check
 - Security based on strength of password
 - Other issues

Does it look familiar?



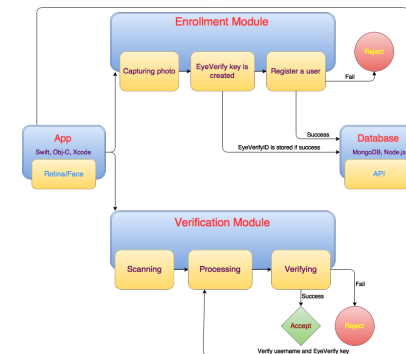
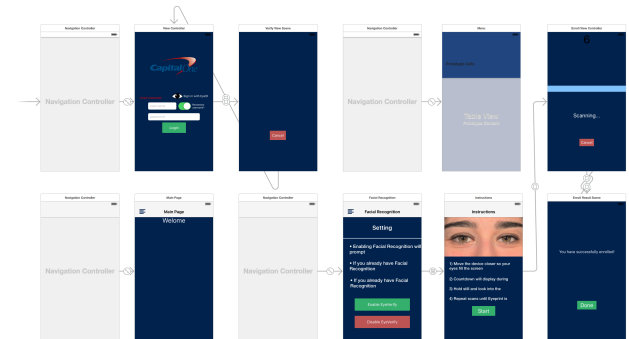
Solution



Retinal/Facial Recognition:

- Better security
- Avoid identity thefts
- High accuracy
- Easy to use

Application Design



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Make it real.