Cleveland Historical Android/iOS Mobile App

Client – Dr. Mark Souther, Erin J Bell (Cleveland Historical)
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Faculty Advisor – Dr. Nigamanth Sridhar

Objectives

• Complete redesign of the Android app
• Uniformity between Android and iOS
• Facilitate future updates from non-coders
• Addition of features such as
  ▪ Storing favorite sites by caching data on Wi-Fi
  ▪ Control data download as per user requirements
Solution

• Native Apps for both platforms
• Supported OS versions
  - Android 4.4 and higher
  - iOS 8 and higher

Alternate Solution

• Hybrid Web Applications
  - An optimized website designed for mobile devices
  - Provides uniformity between devices
  - Loses native application functionality
• PhoneGap
  - Converts a hybrid web app into a native application
  - Allows less technical users to update the application
  - Sacrifices appearance and flexibility given by a native application
• Google Polymer
  - Google’s enhanced version of a hybrid web application
  - More customization allows for more native appearance
  - Loses native application functionality
Progress Status

- **Android**
  - Finalized the layout of the app
  - The design process of the app is almost complete
  - Database connectivity currently in progress
  - The first version of the app will be available by the end of January.
  - Further work will be done in the next semester, along with the iOS app

Android Prototype

[Images of Android prototype screens showing different sections and functionalities]
Android Concept Diagram

Tours Page

Android Concept Diagram

Sites Page

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Technical Challenges

- Omeka Database
- iOS development language – Objective C/Swift

iOS App Planning

- iOS
  - Functionality and layout of the app finalized
  - Expected Deadline: April 2016
Thank You

• Any Questions?