

HW#9 IOS Clues

CSCI571

Spring 2016

HW 9 Prototype

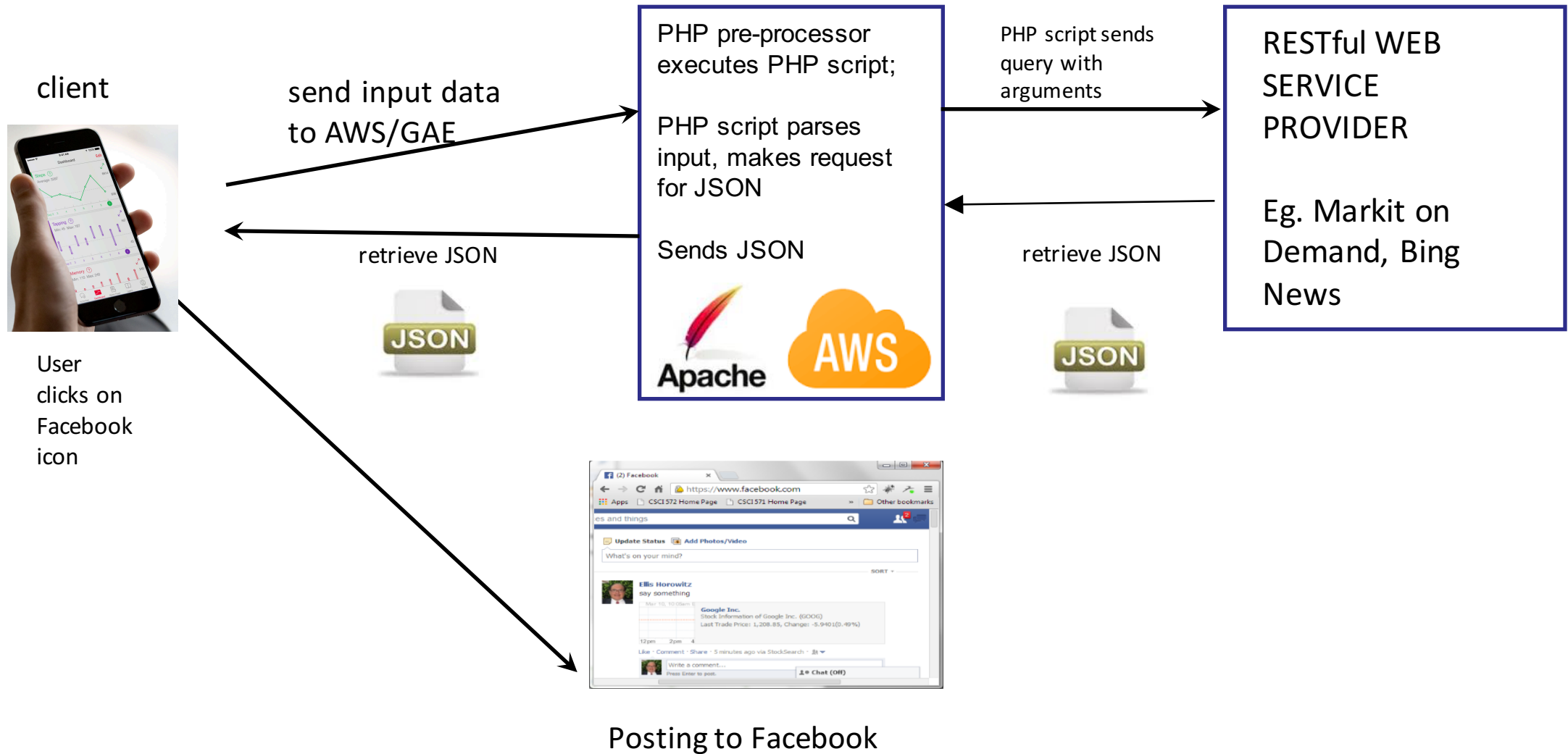
- <https://youtu.be/TzRcgldp27U>

Tutorials

- Lynda.com:
 - iOS 9 App Development with Swift 2 Essential Training
 - Swift 2.0 Essential Training



Architecture Overview



Implementation

- Use Story Board to create 4 scenes
 - Main Scene
 - Search Form
 - Favorites Table
 - Current Scene
 - Stock details and Current stock value chart
 - Historical Scene
 - A chart displays historical stock value
 - News Scene
 - Displays news feed of the stock company
- Use CocoasPod to install dependencies and third party modules
 - <https://cocoapods.org/>



Clues In Detail

Integrate CocoaPods

- 1. Install cocoas pods by following the instructions at <https://cocoapods.org/>
- 2. Create a Podfile in your Xcode project, file content are like the 'Get Started' section in the CocoaPods website
- 3. Run 'pod install' in your terminal
- 4. Open the 'xxxx.xcworkspace' file and you will have CocoaPods integrated
- 5. Import the modules in your project using 'import xxxx'
- 6. When new modules are needed, add new lines to your Podfile and run 'pod install' again

Main Scene

- Search Form
 - Use 'UITextField' as the input field
 - Use third party modules like [MLPAutoCompleteTextField](#), [CCAutocomplete](#), [MJAutoComplete](#) to implement the Auto-complete feature
 - Install these modules using CocoaPods
- Favorites
 - Use 'UITableView' to display the stocks
 - Use 'UIActivityIndicatorView' to indicate loading status
 - Use 'UISwitch' to implement the auto refresh feature
 - Use 'Core Data' to store and retrieve the favorite list and also the configuration of auto refresh or not

Main Scene Contd.

- Problems you may run into:
- Validation:
 - [Display an Alert View in iOS8 with Swift](#)
- When you try to make a request to web server:
 - [Transport Security has Blocked a cleartext HTTP](#)
- Table View
 - [How to get the info of a selected row in table](#)
 - [Add swipe to delete feature in table view](#)
- Core Data
 - [Use core data to save favorite stock names](#)
 - [Delete data from core data](#)
 - [Add core data support to existing swift project](#)
 - [The model used to open the store is incompatible with the one used to create the store](#)
- Timer
 - [Swift - Do something every x minutes](#)

Current Scene

- Stock Details
 - Use 'UITableView' to display the detail information
 - Use 'UIImageView' to display the stock value chart
 - Use 'UIScrollView' to contain the two view above to enable scroll
 - Use 'Core Data' to store the stock symbol when started
 - Use 'FBSDKShareDialog' to share the stock, the content shared should be set with 'FBSDKShareLinkContent'

Historical Scene

- Historical Chart
 - Use 'UIWebView' to load a local html into the page
 - [UIWebView example using Swift in IOS](#)

News Scene

- News Feed
 - Use 'UITableView' to display the news articles

Resources

- Icon Set: <https://icons8.com/>