

HW#9 IOS Clues

CSCI571

Fall 2016

HW 9

Prototype

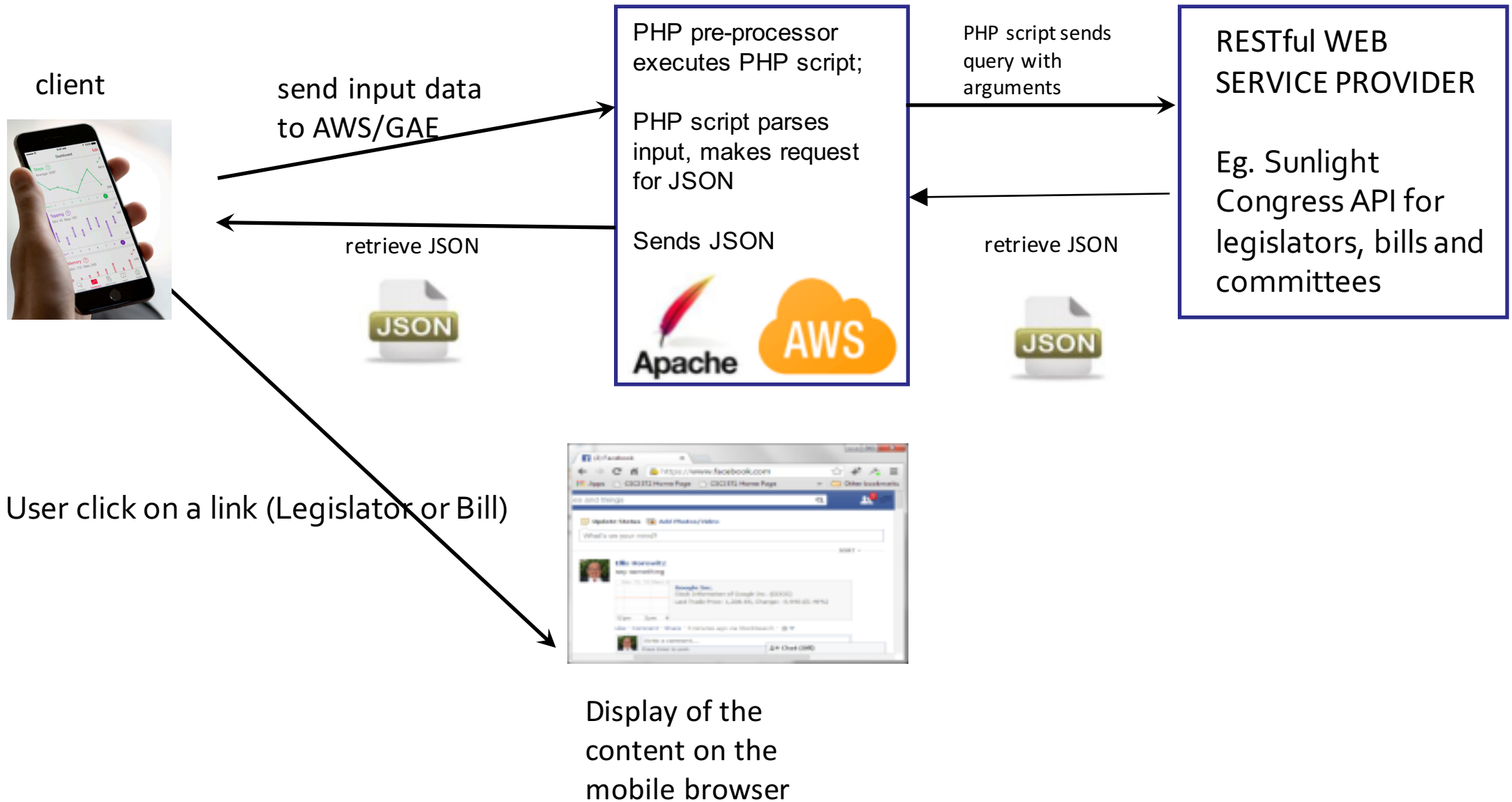
- <https://www.youtube.com/watch?v=Se3M1XShTyQ&t=22s>

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 5 scenes
 - Legislator Scene
 - State View
 - House View
 - Senate View
 - Legislator Detail View
 - Bills Scene
 - Active View
 - New View
 - Bill Detail View

Implementation

- Use Story Board to create 5 scenes
 - Committee Scene
 - House View
 - Senate View
 - Joint View
 - Committee Detail View
 - Favorite Scene
 - Legislator View
 - Bills View
 - Committee View
 - About Scene
- 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

Legislator Scene

- The Scene can be implemented using 'UITabBarController' to implement the tabs.
- State View
 - Use 'UITableView' to display the state legislators
 - Use 'UINavigationController' for managing the navigation bar.
 - Use Section and Indexes on the UITableView
- House View
 - Show only the house senators, after sorting by the first name

Legislator Scene

- Senate View
 - Show only the senate senators, after sorting by the first name
- Legislator Detail View
 - Use 'UIImageView' for showing the legislator image.
 - Again, use the 'UITableView' to show the legislator details.

Bill Scene

- The Scene can be implemented using 'UITabBarController' to implement the tabs.
- Active View
 - Use 'UITableView' to display the active bills, after sorting by the 'official_title'
 - Use 'UINavigationController' for managing the navigation bar.
- New View
 - Again, use the 'UITableView' to display thr new bills, after sorting by the 'official_title'

Bill Scene

- Bill Detail View
 - Use 'UITextView' for showing the complete bill title.
 - Again, use the 'UITableView' to show the bill details.

Committee Scene

- The Scene can be implemented using 'UITabBarController' to implement the tabs.
- House View
 - Use 'UITableView' to display the house committee, after sorting by the 'name'
 - Use 'UINavigationController' for managing the navigation bar.
- Senate View
 - Again, use the 'UITableView' to display the senate committee, after sorting by the 'name'

Committee Scene

- Joint View
 - Again, use the 'UITableView' to display the joint committee, after sorting by the 'name'
- Committee Detail View
 - Use 'UITextView' for showing the complete committee name.
 - Again, use the 'UITableView' to show the committee details.

Favorite Scene

- The Scene can be implemented using 'UITabBarController' to implement the tabs.
- Use UserDefaults to save data – legislators, bills and committees.
- Legislator View
 - Use 'UITableView' to display the favorite legislator.
 - Use 'UINavigationController' for managing the navigation bar.
- Bill View
 - Again, use the 'UITableView' to display the favorite bill

Favorite Scene

- Committee View
 - Again, use the 'UITableView' to display the favorite committee.
- Committee Detail View
 - Use 'UITextView' for showing the complete committee name.
 - Again, use the 'UITableView' to show the committee details.

About Scene

- About View
 - Use 'UILabel' for name and USC ID
 - Use 'UIImageView' for the image

Resources

- Icon Set: <https://icons8.com/>
- Useful Pods:
 - Alamofire
 - SwiftyJSON
 - SwiftSpinner
 - SlideMenuControllerSwift

Thank you.

Manish Dwibedy