HW#9 IOS Clues

CSCI571

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HW 9 Prototype
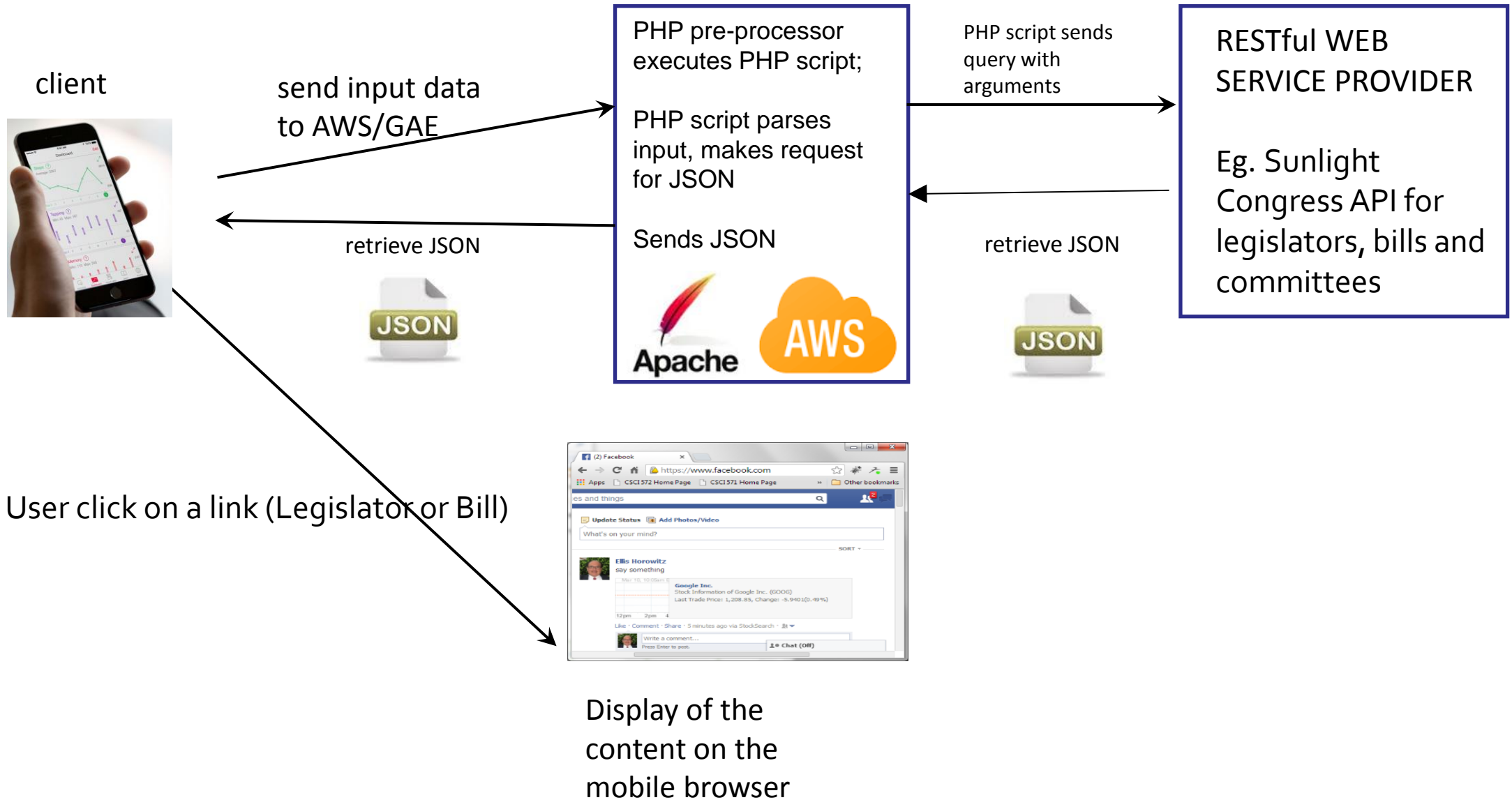
- https://www.youtube.com/watch?v=8TqkUFoNNoU

Tutorials

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

Architecture Overview

client

send input data
to AWS/GAE

retrieve JSON

PHP pre-processor
executes PHP script;

PHP script parses
input, makes request
for JSON

Sends JSON

PHP script sends
query with
arguments

retrieve JSON

RESTful WEB
SERVICE PROVIDER

Eg. Sunlight
Congress API for
legislators, bills and
committees

User click on a link (Legislator or Bill)

Display of the
content on the
mobile browser

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 'UINavigationBar' 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 'UINavigationBar' 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 'UINavigationBar' 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 'UINavigationBar' 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.

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