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Course: Application Development for iOS

Date: June 03, 2019

Class Summary

In the class on the date shown above we learnt valuable market statistics and strategies such as what iOS models have been discontinued, the iOS operating system popularity versus its competitors and good penetration strategies in China. We also revisited the MVC architecture that iOS device use, the Main Loop which controls the operations of running applications, the UIKit and Location Services that was taught in the previous class.

For the class exercise we were required to complete the activities from the previous class. They are:

1. Compile, run, and understand the Maps service iOS app

The app was compiled and run. A picture of the running application is provided in this project’s directory.

1. Research and compare how maps service work in iOS/Android

The map services in both Android and iOS use a combination of GPS coordinates and proximity from cell towers located within range in order to provide a very accurate approximation of where the user is located.

1. Add an option to choose standard/satellite/hybrid map layers

View the map application submitted in the previous class

1. Try different map/location services in iOS, e.g. Tencent LBS
2. Compile, run, and understand the HTTP/JSON iOS app
3. Research and compare how HTTP/JSON work in iOS/Android

In android JSON string that is received from a server should be serialized using a Class. This can then be carried out quickly using the GSON

1. Try Alamofire for HTTP connection in iOS

Almofire was included into the app using pods

1. Try different HTTP connection methods

URLSessions were used to make requests to the server

1. Try decode more JSON fields, including your current web service

A method was created to make requests to the server. It is provided in the TaskFetcher.swift file.