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Course: Application Development for iOS

Date: May 06, 2019

Class Summary

In the class on the date provided above we were introduced IOS’s primary library for user interface objects called the UIKit. The UIKit provides developers a plethora of pre-build user interface widgets that can be used during composition of an application, saving a lot of time in the process since they do not have to be built from scratch. Each widget is interfaced through provided. The UIKit also provides animation support, document support, drawing and painting in addition to many other powerful features. The implementations of UIKit apps are done using the Model-View-Controller design pattern where the control logic, data store and user interface are separated into three distinct sections.

For the class exercise we were required to:

1. Learn, revise, or review the UIKit in iOS development

The swift documentation was read for this step

1. Compile and run the UIKit demo app

The UIKit demo was compiled and run. It showcases most of the widgets available in the UIKit

1. Find and answer the matching Android widget for UIKit

A table showing the matching widgets is provided below

1. Transform and refactor your previous Android project to iOS project, keep as much functions as possible, make sure the interface looks as similar as possible. You can work as a team.

The SOS application was refactored. However it is not yet functional. Other functional apps were created to make up for the missing functionality in the SOS app

1. Think about iOS automated testing with Ruby/Cucumber/Gherkin/Calabash-iOS

Since Calabash is cross-platform compatible (works on both android and iOS) gherkin test cases can be run on the device with no issues, however supplementary libraries are required.

Below is a table showing some UIKit Widgets and their Android Counterparts

|  |  |
| --- | --- |
| UIKit Widget | Android Widget |
| UIActivityIndicatorView | ProgressBar (circular) |
| UIAlertController | AlertDialog |
| UIButton | Button |
| UIDatePicker | DatePicker |
| UIImageView | ImageView |
| UIPageControl | View Page Navigator |
| UIPickerView | Pickers (NumberPicker) |
| UIProgressView | ProgressBar |
| UISearchBar | SearchView |
| UISegmentedControl | RadioGroup |
| UISlider | SeekBar |
| UIStackView | StackView |
| UIStepper | Slider |
| UISwitch | ToggleButton |
| UITextField | EditText |
| UITextView | TextView |
| UIToolbar | ToolBar |
| WKWebView | WebView |