

Android Application Development with Python

Module 1 – Introduction

- Introduction to Mobile Application Development
 - Native App
 - Hybrid Apps
 - Web Apps
- Android App with Java/Kotlin
- Kivy Introduction and Overview
- Kivy Installation
 - How to Download and Install Python
 - Install Kivy on windows
 - Installing PyCharm (IDE)
- Architecture of Kivy
- KV language
- Kivy Basics
 - Import Kivy
 - RunTouch App
 - Using Hint
 - Orientation

Module 2 - Layouts

- Float Layout
- Anchor Layout
- Box Layout
- Page Layout
- Grid Layout
- Relative Layout

Module 3 - UX Widgets

- Button bind in Kivy
- Button Super
- Label and Button
- ActionBar
- Checkbox and Radio Button
- Progress bar
- Scatter
- Canvas
- AsyncImage
- Dropdown in Kivy
- File Chooser in Kivy

- ListView in Kivy
- Slider in Kivy

Module 4 - Events and Properties

- Introduction of Events and Properties
- Touch Event
- Input and Screen Transition
- Kivy Object Property

Module 5 - Kivy App Project

- Requesting data from URL
- Obtain API key
- List adapter & list item button
- Project root class
- Location button
- Current Project class
- Display search and clear search info in our app
- Popup
- Storage

Module 6- Deploying the Kivy Application

- Generate android APK for Google Play Store
- Publishing app to Google Play Store