CSE224:FUNDAMENTALS OF ANDROID

L:2 T:0 P:2 Credits:3

Course Outcomes: Through this course students should be able to

CO1 :: recall various components of Android system architecture used in andriod based projects

CO2 :: illustrate the different layouts used in android applications using Kotlin

 $\overset{\textstyle \text{CO3}}{\cdot}$:: classify the device architecture and build the permissions model required to maintain

privacy

CO4:: evaluate android mobile apps running on emulators and physical devices

CO5:: summarize the prepared activities into single app

CO6 :: apply different menus based on application theme and user interface

Unit I

Introduction to Android and Kotlin: Introduction to Kotlin, Variable, Data type, Operator, Control

Flow, Function, Array, String, OOPs Concept, The Activity and its Life Cycle

Unit II

User Interfaces: Layout: Linear, Relative, Grid and Constraint

Unit III

Localize your app: App localization, Log, Snackbar

Unit IV

Intents and Toast: Intent Class, Implicit and explicit Intent, Toast event implementation, Action

Bar

Unit V

Permissions and App chooser: Request App Permissions, Handle the permissions request

response, App chooser

Unit VI

Menus and Dialogs: Option Menu, Context Menu, Popup Menu, Alert Dialog, Custom Alert Dialog

List of Practicals / Experiments:

Basic of Kotlin

• Create an application which will contain the basic concepts of Kotlin.

Layouts

· Create an application which will contain different types of layouts like linear, relative etc.

SnackBar

Create an application based on snackbar

Intents

Create an application based on implicit intent and explicit intent.

Toast

• Create an application which will display toast in the application.

Menus

• Create an application which will contain different types of Menus like option, context etc.

Dialogs

Create an application to implement different types of dialogs.

Text Books: 1. BEGINNING ANDROID PROGRAMMING WITH ANDROID STUDIO by J. F. DIMARZIO, WILEY

References:

1. ANDROID APPLICATION DEVELOPMENT ALL-IN-ONE FOR DUMMIES by BARRY BURD,
WILEY

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