

## Mobile and Game Development

### Introduction to Android

- Android History
- Android Use in our daily life
- Different kind of applications
- Future applications
- Android features
- Android Flavors
- Android OS Architecture
- Gradle Build System
- Application discussion

### Basic Programming

- Different kind of Conditions
- Basic Programming Concept
  1. If conditions
  2. For loop
  3. While loop
  4. Do while
  5. Gates
  6. Exception handling
- Implementation with application
- Extra tools

### Software installation

- How to open the software
- Installation of software

## Software Architecture overview

- Introduction of Layout (front end)
- Introduction of Back end (Blocks area)
- Basic concept to create layout
- Basic concept to create blocks
- Linuxkernel
- Libraries
- Applicationframework
  
- View Hierarchy andLayouts
- UIEvents
- Forms
  - Buttons
  - Text View
  - Edit Text
  - Radio Button
  - Checkbox
  - Label
  - Text Box
  
- BuildingMenus
- Notify
- Creatingdialogs
- Graphics &Animations
- Sensors
- Animation
- Layouts
- Import extensions
- Maps
- Other tools

## Basic knowledge about Algorithms

- How to Write algo
- Basic concept
- Example

## Project Implementation

## **Basic Application**

- What is Android Virtual device (AVD)?
- How to create Android Virtual Device (AVD)?
- How to run our App on our own Android device?
- Basic widgets in android, Creating a Simple user registration page UI
- How to find and rectify errors in program(Error Debugging)
- Creating a new Activity
- Toast application

## **Advance applications**

- Image Classification application -AI
- Therapist Assistance - AI
- Wake up application
- Create your own Google lance
- Voice Translate to other language
- Get information about other countries
- Exploring with the location sensor
- Integration with other apps
- Secret agent app
- Check your health – Doctors app
- State Geography Quiz
- Voice Calculator - AI

## **Games**

- Basic Bowling game
- Avengers game