**Mini Project on Python**

**Class : FY MTech (CSE) Academic Year – 2019-20 Semester I**

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**Project Title -: Android Application Using Python**

**Brief Description of the Project (In 200 words)**

**This project includes python as programming language for developing an android application. This application going to built by using “Kivy, “Buildozer” and “Pydux”. These libraries and their use explained below**

1. **Kivy**

It is a free and open source Python library for developing mobile apps and other multitouch application software with a natural user interface which can run on Android, iOS, GNU/Linux, OS X, and Windows.

1. **Buildozor**

Buildozer is a tool that used to package mobiles application easily. It automates the entire build process, download the prerequisites like python-for-android, Android SDK, NDK, etc.

1. **Pydux**

Pydux is implementation of redux library in python. Pydux is a predictable state container for apps. It helps to write applications that behave consistently, run in different environments (client, server, and native), and are easy to test

**Purpose of Application can be anything like scan and read barcode, fetch and show live cricket score or search on google using voice command and natural language processing. Purpose can be defined after discussion with subject teacher.**

**Modules of the Project :**

1. **Learn pyhon, kivy, buildozer**
2. **Build sample hello word app using kivy and buildozer**
3. **Define project purpose**
4. **Define scope of project**
5. **Define UI of project**
6. **Implement UI**
7. **Implement pydux for state management**
8. **Implement project purpose in application**
9. **Add server or database if required**
10. **Finalize project and submit**