[Mobile Application Development Internship]

Introduction to Android Programming with Kotlin

Datatypes and variables

Variables and Arithmetics, Nullability

Arrays and Collections (lists, sets, and maps);

Conditionals in kotlin

Functions (lambda's, higher-order functions)

<u>Session One</u>

Introduction to GitHub [installation and usage]

//setup git environment

$ git config --global user.name "Mugisha Ivan Jalagatha"

$ git config --global user.name

Mugisha Ivan Jalagatha

$ git config --global user.email "jalagatha@gmail.com"

$ git config --global user.email

jalagatha@gmail.com

Other Commands

//initialize repo

git init

//add files to repo

git add .

//create a commit message

git –m commit "message"

//check for commits

git status

//createa branch

 git branch backend

//switch to the new branch

git checkout backend

//push code to github or remote repo the main branch

git push origin

//push code to github or remote repo the main new branch named backend

git push origin -u backend

//check logs

git log

//remove a commited files

git rm --cached -r node_module

Installation of Android Studio

Fundamentals of Android Development

Building basic UI; Activities and working with the res folder

Session Two

Android Studio Installation

Building Basic UX (working with the java folder, introduction to view binding)

Intents, Splash and UI components, themes and layouts, and intents

Introduction to web Views [Permission handling (implicit intent)

Classes and OOP

Introduction to Grid Views and Introduction to list view

Introduction to Recycler Views

Android working with fragments, external libraries

Introduction to Navigation (Menus and Fragments)

Project Work Assignment [choose one of the topics below]

 Create a – [To-do list Application/Library Application/Basic Age Calculator Application/e-commerce App]

The project should have

- Splash Activity
- Login Activity
- RecyclerView/ListView
- FirebaseAuth

Push your code to GitHub and submit your repository link to the following email

Email: jalagatha@email.com

Time Schedule

Date   Time

[DAY] 9:00 AM-1200PM

[Weekend]   9:00 AM-1200PM

Facilitator   Mugisha Ivan