

Two months Internship  
Report  
On  
Android App Development

Submitted By  
Madhavi Durga Prasanna Mellimi

B.Tech 3<sup>rd</sup> year

SBID: SB20220205171

Under the guidance of

Sandeep Doodingi Sir

(Smart Internz)

Google Supported

Virtual internship program

In collaboration with

AICTE

(Aug-sep,2022)

## **DECLARATION**

I here declare that I have completed my two months Google supported virtual internship program in collaboration with AICTE from 01 Aug 2022 to 30 sept . 2022 under the guidance of Sandeep Doodigani Sir(Smart Internz). I declare that I have worked with full dedication during these eight weeks (two months) of internship program and my learning outcomes fulfil the requiriements of internship cerificates.

**Madhavi Durga Prasanna Mellimi**

(B.Tech. 3<sup>rd</sup> year)

SBID : **SB20220205171**

Email : [madhavimellimi@gmail.com](mailto:madhavimellimi@gmail.com)

Date : 05 sept 2022

# Acknowledgement

I wish to express my gratitude to, Google supported internship program in collaboration with AICTE for providing me an opportunity to do my internship and project work in “Android App Development” using Kotlin under his guidance I have completed my project and tried my best to implement what I had learnt till now.

I sincerely thanks to Sandeep Dondigani Sir,our mentor for their guidance and encouragement to do my internship . He also help me by updating us about the information and help us with all. I also thanks my friends for helping me with my problem that I face in my project.

# Table Of Contents

## 01.Introduction

1.1 App

1.2 Android

## 02.Knowing Android

2.1 Kotlin in android development

## 03.project

# What is an app?

App is an abbreviated form of the word “application”. An application is the software program that is designed to a specific function directly for the user which can be accessed easily.

# What is an Android?

Android is an open source operating system for mobile devices such as smart-phones, tablets, smart-watches and computers. Android offers a unified approach to application development for mobile devices which means developers need only for android, and their applications should be able to run on different devices powered by android.

Android are developed by the open Handset Alliance(OHA),led by google, and other companies. Android is mainly based on manipulation , using touch gestures that looses correspond to real world actions. It provides us with the manipulation on-screen object, along with a virtual keyboard for text input.

## 02.Knowing Android

-

### Android App Development

-

Android software development is the process by which applications are created for devices running the Android operating system. Google states that “Android apps can be written using **Kotlin, java, and C++** languages” using the android development kit(SDK). While using other languages is also possible. All non-java virtual machine (JVM) languages ,such as Go, JavaScript, C , C++ or assemble, need the help by JVM languages code, that may be supplied by tools, likely with restricted API support. Some Programming languages and tools allow cross-platform app support Third party tools, development environments, and language support have also continued to evolve and expand since the initial SDK was released in 2008. The official Android app distribution mechanism to end users is Google Play. It allows staged gradual app release, as well as distribution of pre-release app version to testers.

## Kotlin in android development

Kotlin is a cross-platform, statically typed, general-purpose programming language with type inference. Kotlin is designed to interoperate fully with Java, and the JVM version of the Kotlin's standard library depends on the Java class library, but type inference allows its syntax to be more concise. Kotlin mainly targets the JVM, but also compiles to JavaScript (e.g., for fronted web applications using React or native code via LLVM (e.g., for native iOS apps sharing business logic with Android apps)). Language development costs are borne by JetBrains, while the Kotlin Foundation protects the Kotlin trademark.

On 7 May 2019 Google announced the Kotlin programming language is now its preferred language for Android app developers. Since the release of Android Studio 3.0 in October 2017, Kotlin has been included as an alternative to the standard bytecode by default (which runs in any later JVM), but lets the programmer choose to target Java 9 up to 18, for optimization, or allows for more features; has bidirectional record class interoperability support for JVM, introduced in Java 16, considered stable as of Kotlin 1.5.

Kotlin has support for the web; by compiling to JavaScript (i.e., Kotlin/JS with the classic back-end, is declared stable since version 1.3), while the newer Kotlin/JS (IR-based) is the beta as of version 1.5.30. Kotlin/Native is considered beta since version 1.3.

# Project

During our internship I have done hands-on-practice on project and have completed project , that are allotted by the team,

Name of Project and there github

link:<https://github.com/smartinternz02/SPSGP-57265-Virtual-Internship---Android-Application-Development-Using-Kotlin>

Demo Video drive link

:<https://www.youtube.com/watch?v=-GGJ0-BLv5k>

## Grocery App

(project Alloted)

Users frequently forget to buy the things that we want to buy . as we cant remember everything in our daily. Busy scheduled life . However, with the assistance of this (Grocery App) app, we can make a list of the groceries that we intend to buy so that we do not forget anything.



